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University of Rijeka Faculty of Medicine

REACCREDITATION OF THE POSTGRADUATE UNIVERSITY STUDY PROGRAMME OF

Biomedicine

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I. General information and delivery requirements

Study programme: Postgraduate University (Doctoral) Study of Biomedicine
Study programme offered by: University of Rijeka Faculty of Medicine
Study programme delivered by: University of Rijeka Faculty of Medicine
Area: Biomedicine and Health
Field (3): Basic Medical Sciences, Clinical Medical Sciences, Public Health, Dental Medicine
Study programme delivered at: Rijeka, Braće Branchetta 20
Number of doctoral candidates: 383
Number of teachers in doctoral study: 100
Number of mentors in doctoral study: 161

Prescribed delivery requirements

Minimum legal requirements:	YES/NO
	notes
1. The higher education institution (HEI) is entered in the Register of Scientific Organizations in the	

scientific field of doctoral studies and has a positive outcome of re-accreditation for scientific activity and higher education.

YES

University of Rijeka Faculty of Medicine was **entered in the Register of Scientific Organizations pursuant to the decision of the Ministry of 15 February 1996** and has continuously maintained this status to date. Appendix 1: Register of Scientific Organizations.

The Faculty of Medicine has a positive outcome of the previous reaccreditation, with the letter of expectations of 25 December 2015 and a deadline for rectifying the shortcomings of three years. Our institution had fulfilled all three conditions set forth in the letter of expectations by July 2016 and consequently submitted the evidence of fulfilment thereof to the Agency for Science and Higher Education (ASHE) and the Ministry of Science, Education and Sports (MSES) on 16 July 2016. On 20 September 2016, we received the ASHE's recommendation for accreditation inviting the MSES to issue to the Faculty of Medicine the certificates, respectively, of fulfilment of conditions for higher education activities for all study programmes and of fulfilment of conditions for scientific activities in the scientific area of Biomedicine and Health, as well as to monitor further activities aimed at the adoption of an action plan for improving the quality and inform the Agency annually on the implementation of the action plan. Appendix 2: ASHE recommendation.

2. The HEI has a vertical link between its study programs (delivering undergraduate and graduate university study programmes) leading to doctoral studies in the same area and field or fields (in the case of interdisciplinary studies), as well as the required number of teachers as defined in Article 6 of the Ordinance on the Content of Licence and Conditions for Issuing Licence for Performing Higher Education Activity, carrying out a Study Programme and Re-accreditation of Higher Education Institutions (OG 24/10).

YES

The Faculty of Medicine in Rijeka has a vertical link between its study programs, given that it delivers the following study programs: Integrated undergraduate and graduate university study of Medicine, Integrated undergraduate and graduate university study of Sanitary Engineering and Graduate university study Sanitary Engineering, which are in the same scientific area of Biomedicine and Health as the doctoral study of Biomedicine and in the same scientific field. Article 6 of the Ordinance on the Content of a Licence and Conditions for Issuing a Licence for Performing Higher Education Activity, Carrying out a Study Programme and Re-Accreditation of Higher Education Institutions (OG 24/2010) stipulates the minimum number of five full-time employees in the research and teaching and/or artistic and teaching title for the postgraduate study program, provided that the relevant graduate or integrated undergraduate and graduate studies in the scientific and artistic areas for which the licence is being requested have already been accredited.. The Faculty of Medicine in Rijeka meets this criterion because it has a total of 96 n full-time employees and 118 part-time ones working in the research and teaching positions, of which 94 are engaged in the doctoral study of Biomedicine.



3. The HEI The HEI has the required number of scientists as defined in Article 7 of the Ordinance on Conditions for Issuing Licence for Scientific Activity, Conditions for Re-accreditation of Scientific Organisations and Content of Licence (OG 83/2010).

YES

Article 7 of the Ordinance on Conditions for Issuing a Licence for Performing Scientific Activity, Re-Accreditation of Higher Education Institutions and the Content of the Licence (OG 83/2010) stipulates that public research organizations must have a minimum of 15 scientists employed full-time, of whom at least 5 in the scientific area in which it carries out scientific activities. The Faculty of Medicine in Rijeka satisfies this criterion because it has a total of 123 scientists in full-time and 118 scientists in part-time employment, of whom 94 scientists working in the area of Biomedicine and Health participate in teaching the doctoral students of Biomedicine.

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4. The HEI delivers more than 50% of its content by its own teachers	YES	
(teachers employed full-time and elected to research-teaching titles).	94%	
5. The overall teacher-students ratio in the HEI should be lower than 1:30.	YES	
	In the last five years, the average teacher-student ratio	
	has been 1: 6, being 1: 4 in the previous year (2015).	
6. The HEI has ensured the publicity of theses.		

YES

The defence of the doctoral thesis topic and of the doctoral thesis itself are public and available to all interested parties.

Notifications on a defence of the doctoral thesis topic and of the doctoral thesis itself are published on the Faculty website (<u>http://www.MedRi.uniri.hr/hr/?start=10</u>).

7. The HEI has put in place the procedure for revocation of the academic degree (PhD) through the provisions of the statute or another general act if the degree is determined to have been acquired in contravention of the conditions prescribed for its acquisition, by gross violation of the rules of study or on the basis of a thesis which is a plagiarism or falsification.

YES

The Faculty of Medicine in Rijeka has put in place the procedure for revocation of the academic degree (PhD) through the provisions of the Statute of the University of Rijeka, the Statute of the Faculty of Medicine in Rijeka and Regulations on Studies University of Rijeka if the degree is determined to have been acquired in contravention of the conditions prescribed for its acquisition, by gross violation of the rules of study or on the basis of a thesis which is a plagiarism or falsification.

Article 132 of the **Statute of the University of Rijeka** regulates the conditions for revocation of the doctoral degree as follows: (1) The doctoral degree shall be revoked if it is established that the thesis is a result of appropriated scientific work or a falsification; (2) The revocation of a doctoral degree shall be carried out by the Senate at the request of an authorized professional council, through the procedure defined in detail in the Regulations on Studies; (3) The revocation of the doctoral degree shall entail the loss of titles obtained on the basis of the doctoral degree.

Article 80 of the **Statute of the Faculty of Medicine** regulates the conditions for revocation of the doctoral degree as follows: (1) The doctoral degree shall be revoked if it is established that the thesis is a result of appropriated scientific work or a falsification; (2) The revocation of a doctoral degree shall be carried out by the University Senate at the request of the Council, through the procedure defined in detail in the Regulations on Studies; (3) The revocation of the doctoral degree shall entail the loss of titles obtained on the basis of the doctoral degree.

Articles 75, 76 and 77 of the **Regulations on Studies of the University of Rijeka** regulate the conditions for revocation of the doctoral degree as follows:

Article 75 - Revocation of the doctoral degree; (1) The doctoral degree shall be revoked if it is established to have been acquired in contravention of the prescribed conditions the prescribed conditions for its acquisition, by gross violation of the rules of study, on the basis of a thesis which is a plagiarism or falsification or through commission of a criminal offence on the part of the student. (2) The revocation of the doctoral degree shall entail the loss of titles obtained on the basis of the doctoral degree.

Article 76 - The procedure for revocation of the doctoral degree; (1) The procedure for revocation of the doctoral degree shall be implemented by the Senate. (2) The procedure shall be initiated at the request of the professional committee of the relevant faculty. (3) The Senate shall appoint a commission of five members which will evaluate and consider the proposal for the revocation of the doctoral degree. The commission members shall be recognized experts in the area of which the thesis topic, one of whom shall be from another university or research institution. The mentor cannot be a member of the commission. (4) The commission's report must contain a conclusion which explicitly states that the thesis is an appropriated scientific work or falsification, or that it has been compiled



through commission of a criminal offence on the part of the student. (5) The Senate shall adopt a decision on the basis of the commission's report.

Article 77. Revocation of a diploma of the doctoral degree; (1) If the Senate adopts the decision on the revocation of the doctoral degree, the rector shall rescind the diploma of the doctoral degree. (2) The person whose doctoral degree has been revoked shall be obliged to restore to the University their diploma of the doctoral degree. (3) The diploma of the doctoral degree shall be rescinded by placing it on the revocation clause. (4) The decision on revocation of the doctoral degree shall be registered in the University's Book of Doctorates.

Additional requirements of the Accreditation Council for issuing a positive opinion

YES/NO, notes

1. This HEI (or several ones) has a minimum of five teachers elected to research-teaching titles in the field or fields relevant for the delivery of the doctoral study.

YES

The Faculty of Medicine in Rijeka has 95 of the total of 100 teachers who have been elected in the research and teaching positions in the field relevant for the delivery of the study programmes of the doctoral study.

2. In the last reaccreditation procedure, the HEI had its standard of Scientific and Professional Activity rated at least "partially implemented".

YES

Appendix 2: ASHE recommendation of 20 September 2016.

3. The doctoral study program of the HEI is aligned with the strategic program of scientific research.

YES/NO – partly aligned

The doctoral study program is partly aligned with the ASHE Strategy adopted in July 2016 and is yet to be implemented. One of the strategic objectives is the reform of doctoral studies which, among other things, includes implementation of a system of continuous evaluation of mentors with clearly defined criteria, improvement of the system of institutional evaluation of framework topics of research, and selection of doctoral candidates according to the topics/mentors, designing doctoral studies for the training of clinical and translational researchers through harmonization with similar doctoral studies abroad, and improving the system of monitoring the progress of doctoral students during their studies.

Appendix 3 – Strategy for the Development of Science of the Faculty of Medicine in Rijeka

4. The mentor-doctoral student ratio at the HEI is not higher than 1: 3.

YES

The mentor-doctoral student ratio, calculated on the basis of Table 2: Mentors and doctoral students, is lower than 1:3, namely, it is 1:2.4 (the total number of, respectively, mentors and doctoral students being 161 and 383).

5. The mentors (all) at the HEI meet all the following conditions:

a) are employed in a scientific or a research-teaching position, or an associate position (post.doc.) with at least two years of post.doc. research experience;

b) are active scientists in the scientific field of the doctoral study (having published scientific papers, participated in international conferences and/or participated in projects in the last five years (T. 2);

c) confirm the feasibility of the framework research plan at doctoral student's enrolment (or at registration of the proposed topic);

d) provide the necessary conditions (including financial support) for the implementation of scientific research of doctoral students (according to the framework plan of doctoral student's research) either as leaders, co-leaders or associates of the research project or in some other manner;

e) have completed some kind of training (co-mentoring, workshops or other);

f) have obtained a positive opinion of their mentoring by the HEI.

Mostly YES

a) **YES** - All mentors of doctoral studies at the Faculty of Medicine in Rijeka have been elected to the research and teaching position. One of the conditions for the election is a minimum of five years in the position of a senior assistant/doctoral candidate by regular election, or a minimum of 3 years experience after the defence of the doctoral thesis for those elected according to the excellence criteria (additional criteria). b) **YES** - All mentors are active scientists, which they must also prove during the procedure of their reappointment. Information about them is given in Table 2.

c) **YES** - The mentor's statement of agreement is incorporated in form DrS1, which is used to register a doctoral thesis. Under item 2 therein, the mentor or mentors are registered, and in the field "Mentor's agreement with the proposed topic" at the end of the form, the proposed mentors confirm with their signature the statement: "I hereby declare that I agree with the topic being proposed." In addition, the doctoral students certify with their signature that they have not proposed the same topic at any other university. Before the introduction of the form DrS1 (in September 2015), potential mentors attached a special document in which they confirmed in the same ways their agreement with the proposed topic.



d) **YES** - Form DrS1, the doctoral student must enter the data on the sources of financing of the proposed doctoral thesis, indicating whether they are national, international or independent, as well as the type and the leader of the project from which the research will be financed. Moreover, doctoral students are required to submit a certificate signed by the head of the clinic/department that will allow them carry out research work (use of space, equipment, etc.).

e) **YES/NO** – Part of the mentors have attended appropriate workshops, some in the context of education within the project tasks at their institutes/departments. No systematic training of all mentors has yet been carried out at the institutional level.

f) **NO/YES** - Mentors do not receive a formal positive opinion of the institution, but their work is evaluated and described in the report of the department/institute where they are employed, which is the responsibility of the head. Vice-deans for scientific research and postgraduate studies and life-long learning report on the work of mentors, based on reports by heads of department, at the meeting of the Dean's Advisory Board, mentioning potential problems in the mentor – doctoral student relationship.

6. Teachers meet all the following conditions:

a) are employed in a scientific or a research-teaching position;

b) are active scientists, recognized in the field of their subject matter (T. 1).

YES

a) **YES** –Teachers in the doctoral study must have been elected to a research and teaching title and be appointed to the appropriate position.

b) **YES** – Teachers are active scientists, recognised in the field of their subject matter, as can be seen in Table 1.

7. As a rule, the mentor does not participate in the commission for assessment of the topic, the content and the defence of a doctoral thesis.

NO - The mentor does not participate in the procedure of assessment of the topic or the content of the doctoral thesis.

YES - The mentor participates in the defence of a doctoral thesis as an associate member of the commission that evaluated the topic and the content of the doctoral thesis. In the reformed doctoral study, we no longer plan to have mentors participate in the work of the Commission for Doctoral Thesis Defence.

8. The doctoral study programme provides at least three years of individual/independent research (concurrently, individually, inside or outside classes), where the independent research involves writing the

thesis, writing papers, participating at international conferences, field work, teaching for research purposes and other.

YES

The full-time doctoral study lasts 3 years (with the right to study up to 6 years) and the doctoral student immediately begins with research work concurrent with the classes, which in the first year include also lectures. Part-time students, typically residents or specialists at their clinics, study five years, which enables them to simultaneously perform their clinical work, and are granted up to 10 years for the preparation and defence of their doctoral thesis (double the duration of the study). Actually, the three years of individual research are thus distributed over five or more years.

9. In the case of cooperative or joint studies and doctoral schools (at university level), the HEI supports cooperation through relevant agreements; its programme is delivered by accredited HEI (for cooperative and joint doctoral studies), or - at the doctoral school - in a way that meets all the prescribed requirements and ensure effective coordination and support to doctoral students; the coverage of teaching by own teachers (of all institutions) is at least 80 %.

NO

At present, we do not have a doctoral school or joint studies. The establishment of the doctoral school at the level of Rijeka University was proposed at the session of the Senate. At the time of writing this self-evaluation, the proposal is under discussion within the academic community. However, although the Faculty of Medicine actively supports a university doctoral school, we are still intent on establishing our own doctoral school within the reform of our doctoral studies.



II. SELF-EVALUATION ACCORDING TO THE CRITERIA FOR QUALITY ASSESSMENT

1. TEACHING, MENTORING AND RESEARCH RESOURCES AND INFRASTRUCTURE

1.1. The HEI is a recognized institution by its research/artistic achievements in the scientific/artistic field in which it offers the doctoral study.

In the observed period, the number of scientific papers cited in Current Contents (which is now a valid criterion of election to a higher research-teaching position) has not significantly increased annually, ranging between 136 and 203. However, the ranking of the journals in which the papers were published has continuously increased. For example, the Q1-ranked journals (according to JCR) published 31 (15.3%) papers in 2011, 32 (19.9%) in 2012, 42 (25.6%) in 2013, 41 (30.1%) in 2014, and 54 (34.8%) in 2015. A significant imbalance between the highly successful and less successful research groups has been noted, as well as a lack of cooperation between preclinical and clinical researchers or groups. The following is a summary list of scientific activities of research groups at the University of Rijeka Faculty of Medicine.

The Department of Histology and Embryology and the Centre for Proteomics has laboratories with high quality research conditions, including laboratories for cell culture, molecular biology, histopathology, a laboratory for the production and purification of proteins, and a laboratory for mass production of monoclonal antibodies. These departments are also equipped with modern equipment, such as confocal microscopy, two flow cytometers and a system for storage of cells and tissues (refrigerators at -80°C and liquid nitrogen). Within these departments there are two experimental premises for laboratory mice that are equipped with IVC systems. One of the main missions of the Centre for Proteomics is developing new tools for research in immunology and virology. The Centre is also involved in the projects of development of new immunotherapeutic approaches for the prevention and treatment of diseases. The Centre has produced several recombinant antibodies and fusion proteins that are licensed as part of cooperation with foreign partners. Based on his cutting-edge scientific achievements, Prof. Stipan Jonjić, PhD, has been entrusted with the leadership of the national Centre of Excellence for Virus Immunology and Vaccines (Appendix 4).

Scientists at the Department of Histology and Embryology and the Centre for Proteomics have been successfully working on viral immunology for over 20 years now, and during that period have made significant scientific discoveries and obtained international recognition, reflected in the more than a hundred scientific papers published in the most prestigious journals in the field of immunology and virology, numerous international scientific projects (such as the NIH R01 project and the ERC Advanced project) and international scientific cooperation established with over 20 research laboratories worldwide. The group led by Professors Stipan Jonjić and Astrid Krmpotić is among the most recognizable ones in Croatia, especially by their contribution to the understanding of viral imunosubversive genes and the pathogenesis of cytomegalovirus infection, and generally to the understanding of viral immune control. To date, they have discovered and characterized four MCMV genes responsible for the downregulation of NKG2D. Using deletion mutants of the virus, in which any of the four viral genes regulating NKG2D ligand has been removed, they showed an attenuated phenotype in vivo (attenuated replication) that could be eliminated by depletion of NK cells or blocking the NKG2D receptor. In addition to ligands for NKG2D receptor ligands, the MCMV also regulates ligands for numerous other activation and inhibitory receptors, such as TIGIT, DNAM1 and Ly49s (Jonjic et al., Curr Opin Immunol, 2008, Lenac Rovis et al., Journal of Experimental Medicine, 2016. 213 (9): 1835-50). Based on the excellent results in basic research, the group has recently focused on translational research in the field of immunology and vaccinology. They were the first to demonstrate that recombinant herpesvirus expressing cell ligands for the NKG2D cell receptor has excellent properties for a vaccine or a vaccine vector (Slavuljica et al., J Clin Invest, 2010; Trsan et al., Proc Natl Acad Sci USA, 2013), and these findings have resulted in a patent application to the US Patent Office and Trademark Office. At the same time, this group of scientists has been working intensively on the development of various research tools and approaches that have enabled their additional connections with the international scientific community (bank of hybridoma cell lines, systems for the production and purification of proteins, recombinant DNA technology, etc.).

The research carried out by the group led by Professor Bojan Polić of the Department of Histology and Embryology can be divided into two main segments: a) research into the biological roles of NKG2D receptors in the development, homeostasis and effector functions of lymphocytes; b) research into the mechanism of systemic chronic inflammation and metabolic syndrome in obesity. In the first segment, the group investigates the biological roles of NKG2D receptors in the immune system. NKG2D is a potent activating receptor present on NK cells, NKT, activated ab and gd lymphocytes T. In their work, they use their own mice with conventional and conditional NKG2D mutations, which enables specific studies of the role of NKG2D in individual cells.



They have thus found that a lack of NKG2D causes hyperactivity of NK cells and that this phenomenon is related to their development (Zafirova et al., Immunity 2009; Zafirova et al. CMLS 2011). Furthermore, they investigated the role of NKG2D activation of CD8+ T lymphocytes and the formation of memory lymphocytes. They also showed that NKG2D is extremely important in the early stages of formation of memory CD8+ T cells because it affects the survival of their precursors via the PI3K-Akt-Mcl1 signal shaft (Wensveen et al. J. Immunol., 2013). In cooperation with A. Hayday's group (Cancer Research UK, King's College, London), they discovered the connection between the NKG2Ddependent mechanism of control of epidermal stress and the system-specific IgE responses to antigens coincidentally associated with stress. This mechanism is mediated through gd T lymphocytes and IL-13 (Science, 2011). In recent years, the group has been intensively engaged in the research of the role of the immune system in the development of low intensity chronic systemic inflammation in obesity, which is one of the main factors in the development of insulin resistance, type 2 diabetes and numerous complications, which constitutes the second segment of their research. Their significant contribution to this area is the recent discovery of the role of NK cells in the initiation and development of inflammation in visceral fat as the main source of infection in obesity (Wensveen et al., Nature Immunology, 2015). This research continues in the direction of investigation of the mechanisms of pathogen effects, particularly viral infections, on the development of insulin resistance in obesity. In addition to visceral fat inflammation, the group investigates the mechanisms of inflammation in the liver that contribute to the development of non-alcoholic steatohepatitis (NASH), which is a common side complication of type 2 diabetes in obesity. An important activity of the scientists who work at these two departments and also training of young researchers and networking with other outstanding institutions in the European research area and the exploitation of the results of these studies. To date, over 20 doctoral and/or master 's candidates have been trained in these two departments.

Given that these two groups boast the highest number of prestigious international projects in our institution, Appendix 4 gives a list of the most important international projects and their short description. The same Appendix also lists the partners with whom very fruitful international collaboration has been established and patents obtained, as well as a systematic list of awards and recognitions, and international conferences organized by the Department of Histology and Embryology and the Centre for Proteomics. It is worth noting that in 2012 Professor Stipan Jonjić became a member of the Leopoldine, the German National Academy of Sciences.

The main area of scientific research of the group led by Professor Siniša Volarević is the study of mechanisms by which errors in the synthesis of ribosomes, protein-producing machines in the cell, cause diseases in mammals. Prof. Volarević has discovered a control mechanism that detects errors in the synthesis of ribosomes and stops cell division. This discovery was published in the journal Science (Volarević et al., 2000), which declared it one of the most important discoveries in the field of biomedicine in that year. By using the most modern technology to manipulate genes in experimental mice and many other methods of molecular and cell biology, his research team discovered the first known component of this new signalling pathway and determined its key role in the development of T-lymphocytes and mouse embryos (Šulić et al., Genes Dev 2005; Panić et al., Mol Cell Biol. 2006; Barkić et al., 2009). Furthermore, in 2012, they discovered another two key components of this signalling pathway, ribosomal proteins L5 and L11, and clarified the mechanisms by which they transmit signals in the cell (Bursać et al., PNAS, 2012). The latest research of this research group has also demonstrated the role of L5/L11/p53-dependent control mechanism in protecting cells from a malignant transformation. In addition to original research papers, they have also published several important review papers in this area of research (Panić et al., Cell Cycle, 2007; Golomb et al., FEBS Lett, 2014; Bursać et al., Biochim Biophys Acta, 2014, Oršolić et al., Seminars in Cancer Biology, 2016, etc.). For the purposes of their research, they have developed a large number of new technologies and reagents for research. A special place is occupied by the production of monoclonal and polyclonal antibodies against the 60 ribosomal proteins, and the methods for determining the expression of all gRNA for ribosomal proteins. Given that these reagents can no longer be found on the market, their possession enabled the increase in the volume and level of quality of this group's research and the establishment of new cooperations. Over the past 15 years, Professor Volarević's group research has been funded by several national and international scientific foundations and from other funding sources, including the SNSF, EU FP7, UKF, the Croatian Science Foundation, HIT, etc.. The exceptional relevance and appropriateness of the above-mentioned research is also corroborated by the fact that the results and concepts developed in Prof. Volarević's laboratory recently made it possible to demonstrate the importance of L5/L11/p53-dependent control mechanism in the pathogenesis of several diseases in humans (Treacher Collins syndrome, hyperpigmentation, myelodysplastic syndrome, anaemia, Diamond-Blackfan and many types of malignant tumours). This opens the possibility of manipulation of components L5/L11/p53-dependent control mechanism that is activated by errors in the synthesis of ribosomes for the purpose of treating human diseases. Over the past ten years, they have intensively collaborated with many leading researchers in the fields of research synthesis of ribosomes and malignant diseases, including Moshe Oren (Weizmann Institute of Science), Jiri Bartek (Danish Cancer Society), Carol Prives (Columbia University), Massimo Derenzini (University of Bologna), Vassilis Gorgoulis



(University of Athens), Aristides Eliopoulos (University of Crete) and others, within which they have published papers in some of the most prestigious scientific journals (Nat Cell Biol, Mol Cell, J Cell Biol, Oncogene, Hum Mol Genet, etc.).

Due to the above, this research group has a huge impact on the development of this important, complex and competitive research area. Prof. Volarević was the winner of the annual Award of the Croatian Academy of Sciences and Arts for scientific achievement in 2006 and of the National Award for Science in 2010, and in 2008 he became a member of one of the most prestigious scientific organization in the world, the European Molecular Biology Organization (EMBO). PhD students in Prof. Volarević's laboratory participate in competitive scientific research, publish papers in the world's top scientific journals and collaborate with leading scientists in the US and in Europe, and have received several prestigious awards for their achievements. Research assistant Slađana Bursać has received the Željko Trgovčević Award for the best young researcher in the field of molecular biology in 2012, the For Women in Science national scholarship in 2013, and the Best Young Scientist in Basic Medical Sciences Award of the Faculty of Medicine in Rijeka in 2014. Prof. Volarević's research group has been included in the Scientific Centre of Excellence for Reproductive and Regenerative Medicine, which is an additional proof of its scientific recognition in Croatia. By organizing visits of more than 100 prominent scientists in the world and numerous international scientific workshops, they have participated in creating a stimulating scientific atmosphere at the University in Rijeka.

The research group for cell physiology, led by Professor Pero Lučin, works at the Department of Physiology, Immunology and Pathophysiology. The group consists of three experienced researchers (Hana Mahmutefendić, Gordana Blagojevic Zagorac and Kristina Grabušić) and five doctoral candidates. Cellular physiology is one of the profiling directions of the Department as a basis for the development of systematic research and translational medicine. The group of cell physiology establishes and develops models for monitoring intracellular traffic and sorting of proteins, the formation of membrane organelles and compartments of endosomal paths. In the last ten years, the group has worked intensively on the endosomal sorting of MHC-I molecules, particularly of nonconformed MHC-I molecules in late endosomes, and recycling of MHC-I molecules in the endosomal system. Understanding the mechanisms of sorting MHC-I molecules in the endosomal system contributes to the understanding of the general mechanisms of protein sorting in the endosomal system, especially sorting of nonconformed proteins, the mechanisms of endocytosis and the formation of membrane domains in endosomes and mechanisms of antigen presentation. In addition to establishing a model for fundamental research of endosomal traffic, the group study the mechanisms by which viruses adapt the endosomal system for the needs of their morphogenesis. In the model of murine cytomegalovirus infection (MCMV), the group investigates rearrangement of the endosomal system in the early stages of infection, which leads to the formation of a section for virion assembly (assembly compartment, AC) and release of infectious particles from the infected cells. In addition, the group explores the structure of AC which is formed in the late stage of infection, the mechanisms of release of infectious particles (virions) after the assembly in the AC, and the content and the physiological role of membrane particles which, in addition to virions, are released from infected cells (exosomes and microvesicles).

The scientific interest of the group led by Professor Biserka Mulac-Jeričević of the Department of Physiology, Immunology and Pathophysiology of the Faculty of Medicine is the role of transcription factors that are receptors for the steroid hormones progesterone and estrogen in normal physiology, with particular emphasis on the role of research selective progesterone receptors A and B in pregnancy and their role outside the reproductive organs. The research carried out by Prof. Mulac-Jeričević has shown that progesterone can perform its biological function via two progesterone receptors whose individual transcriptional activity depends on the tissue in which they are biologically active (Mulac-Jeričević et al., Science 2000, Mulac-Jericevic et al., PNAS 2003, cited more than 1000 times). The results of these studies have contributed significantly to the understanding of the role of steroid hormones and their receptors in reproductive and non-reproductive organs. Prof. Mulac- Jeričević's group cooperates with Jan J. Brosens's (University of Warwick) and Orle M. Conneely's (Baylor College of Medicine) groups. Over the past five years, Prof. Mulac- Jeričević's scientific research has been financed from domestic and foreign sources (MSES, FP7). Intensive cooperation has been established with the Clinic for Orthopedics in Lovran (Prof. G. Gulan and Assis. Prof. Z. Jotanović) and the Clinic of Obstetrics and Gynecology, Clinical Hospital Centre Rijeka (Prof. N. Severinski). As of 2014, Prof. Mulac-Jeričević's research group has been included in the Scientific Centre of Excellence for Reproductive and Regenerative Medicine.

The research group of Professor Biserka Radošević-Stašić studies cytoprotective and immunoregulatory properties of glycoproteins 96 and metallothionein. The group examines the role of heat shock protein (HSP) and metallothionein (MT) in various types of cell and tissue damage in order to determine the patterns of response to



noxae and explain the compensatory mechanisms that contribute to the re-establishment of morphological and immunological homeostasis. In this study analyzed the expression of gp96 and its receptors, MT and metals in several experimental models: a) in the process of liver regeneration, the implantation of the fetus and embryogenesis, b) in demyelinating diseases caused by autoimmune process, c) in demyelinating diseases caused by iron overload and cuprizone administration, d) in inflammation (cholecystitis in humans), and e) in neoplastic processes (cervical lesions and cancer in women). The particularly active members of the research group include Marin Tota, Nada Starčević Čizmarević, Hrvoje Jakovac, Zlatko Trobonjača, Ines Mrakovčić-Šutić, Damir Grebić, Vesna Barac-Latas and Tanja Grubić Kezele.

The research group of Academician Daniel Rukavina studies immune-endocrine mechanisms, in particular cytokines and cytolytic mechanisms at the mother-fetus interface during early pregnancy. They examined the role of granulysin at the mother-fetus interface during early pregnancy, the effect of mucin 1 on the function of decidual CD14+ cells of antigen presenting cells in early pregnancy, the impact of protein heat shock 70 and glycoproteins 96 to maturation of decidual CD1a + dendritic cells in the first trimester of pregnancy, the expression and function granulysin and perforin in decidua in the first trimester of pregnancy, with active participation of collaborators: Danijela Veljković Vujaklija, Suzana Sršen Medančić, Tamara Gulić and Marin Dominović. Academician Daniel Rukavina has been elected an honorary member of the European Society of Reproductive Immunology and awarded the City of Rijeka Award for Lifetime Achievement. With the help of his collaborators, he has organized 27 scientific conferences hosting over 200 scientists lecturers, of whom 64 scientists from abroad. In the reporting period, four doctoral theses were defended.

Research activities at the Institute for Pharmacology are carried out in the field of basic and clinical pharmacology. Basic research, which is the basis of research activities of the Institute since its establishment, is directed towards experimental neuroscience and neuropharmacology. Initially, the focus of interest were the damaging mechanisms and treatment of spinal cord lesions and Alzheimer's disease, which was later extended to a variety of models of experimental seizures, epilepsy, hypoxia and ischemia of the brain. In recent years, basic research has focused primarily on traumatic brain injury. The main area of recent scientific interest of Professor Gordana Župan's research group includes the distribution, extent and timing of biochemical, molecular and cellular mechanisms involved in the brain damage caused by experimental trauma, the potential neuroprotective effects of different classes of drugs that inhibit the mechanisms of damage and the subsequent death of neurons. In recent years, they have published papers in this area in some prestigious journals (Pilipović K et al., Prog Neuropsychopharmacol Biol Psychiatry, 2015, Pilipović K et al., Prog Neuropsychopharmacol Biol Psychiatry, 2015; Župan Ž et al., Prog Neuropsychopharmacol Biol Psychiatry, 2011, Dolenec P et al., J Neuropathol Exp Neurol, 2015). For research in the field of experimental brain trauma. Prof. Župan received the Neurotrauma Young Investigator Award at the 13th Congress of the European Federation of Neurological Societies in Florence. Italy, in 2009, Assis, Prof. Pilipović was awarded the Postdoctoral Research Fellowship, of the Central European Initiative Research Fellowship Programme (CERES), and stayed at the International School of Advanced Study in Trieste, Italy, from October 2011 to October 2012 working in the group of Professor Andrea Nistru. Recently, research on the model of repetitive brain trauma has been initiated and collaboration established with the research group of Professor Jasna Križ of the Department of Psychiatry and Neuroscience, Faculty of Medicine, Université Laval, Quebec, Canada. Prof. Župan has organized and led international symposia under the 6th, 7th and 8th Croatian Congress of Pharmacology with international participation (Opatija, 2010, Zagreb, 2013, Split, 2016), organized and led the international conference on "Traumatic brain injury and neurological diseases: from bench to bedside ", University of Rijeka Faculty of Medicine, 2012, and was the invited speaker at the international conference of the EU FP7 project GlowBrain Final Conference, 2015. Research activities in the field of clinical pharmacology at the Institute have intensified in recent years, and are predominantly directed towards pharmaco-epidemiology and antimicrobial treatment, the basic research interests of Professor Vera Vlahović Palčevski, and to pharmacoeconomics and outcomes of treatments, the recent focus of interest Professor Dinko Vitezić. In his capacity as President of the Organizing Committee, Prof. Vitezić has organized five international congresses dedicated pharmacoeconomics in the last five years. From 2007 to 2013, four research projects founded by the MSES were conducted at the Institute (project leaders Prof. Župan, Prof. Mršić Pelčić, Prof. Vlahović Palčevski, Prof. Vitezić), and since 2014 nother three have been subsidised by the University of Rijeka (project leaders Prof. Župan, Prof. Vlahović Palčevski and Prof. Vitezić).

Researchers from the Institute for Microbiology have longtime experience in the field of pathogenesis of bacterial infections. Several research teams are active at the Institute, researching into the development course of infectious diseases caused by bacteria that pose a significant public health problem (eg, Listeria, Campylobacter, Legionella, atypical mycobacteria, Pseudomonas, Enterobacteriaceae). The subject of the research group led by Professor Maja Abram, which includes four experienced researchers (Darinka Vučković, Brigita Tićac, Marina Bubonja Šonje and



Ivana Gobin) and three doctoral students, are factors of bacterial virulence, response to the environmental stress, the mechanisms of resistance to antibiotics, the immune response of the host to infection, as well as cellular and molecular mechanisms in the relationship between the host and the prokaryote. Adaptation to the environment is a feature of bacteria transmitted by food because it allows them to survive in foods during processing and adapt to the conditions in the host organism. We have shown that exposure to atmospheric oxygen favors the survival of Campylobacter in the culture of enterocytes, while starvation leads to significant morphological changes and reduces the pathogenic potential of these bacteria. We have identified molecular mehnisms of carbapenem resistance in clinical isolates of Pseudomonas. Most strains, which are grouped into five clones, showed decreased expression of porins OprD and overexpression of MexAB-OprM, MexCD-OprJ and MexEF-OprN efflux pumps. Due to resistance to antimicrobials, we investigate the biological properties of pure phenolic compounds, natural, and waste, plant material. One of the plants that has potential for use in the prevention and assistance in the treatment of urinary tract infections is Arbutus unedo L, a type of strawberry (strawberry-tree berries), which we are currently investigating within the framework of a bilateral Croatian-Serbian project. In 2015, we participated in the organization of the Central European Congress on Antimicrobial Resistance, and in 2016 in the organization of the National Congress of Clinical Microbiology and Infectious Diseases (CroCMID).

The research carried out by the group led by Professor Marina Šantić of the Institute of Microbiology is related to cell and molecular biology of Legionella pneumophila and Francisella tularensis bacteria. They have shows that iglD protein Francisella genome plays a key role in the pathogenesis of the disease because it sends signals to the cytoplasm of human macrophages thus modelling them for their further propagation (Cell Microbiol. 9 (10): 2391-403, 2007), and that F. tularensis may replicate in cells of arthropods, which is why tularemia is classified as a disease spread by vectors such as mosquitoes and ticks (Environ Microbiol 11 (6): 1473-81, 2009). They have also demonstrated that proteosomal decomposition of cell Lys48 - polyubiquitin proteing leads to the formation of amino acids necessary for the reproduction of L. pneumophila. A defect of ankB mutants for breeding in amoeba cells and human cells can be substituted by adding a mixture of amino acid or cysteine, serine, pyruvate or citrate, which is similar to genetic complementation (J Exp Med. 207(8):1713-26, 2010; Science. 334; 1553-1557, 2011). They have found that the life cycle of Franicella is completely different in amoeba in relation to its life cycle in human cells (Environ Microbiol 11 (6): 1473 to 81.2009; Front Microbiol 2: 78, 2011, PLoS Pathogen. 3; 11 (12), 2015). For her research work Prof. Šantić ha received many awards, including the National Award for Science in 2009. Over the past years she has worked with a number of leading research groups in this area (University of Louisville, USA; Institut National de la Santé et de la Recherche Médicale, France; Faculty of Military Health Sciences, University of Defence, Czech Republic, Clinical Bacteriology, Umeå University, Sweden; Bundeswehr Institute of Microbiology, Germany, Health Protection Agency, UK). Thanks to the international recognition of the research group of the Institute for Microbiology, they organized in Opatija the 8th World Congress of Tularemia in September 2015.

Institute for Pathology, led by Professor Nives Jonjić, an organizational unit of the Faculty of Medicine, conducts diagnostic and scientific research primarily focused on the biology of the tumour, with the aim to better identify new prognostic and predictive factors that characterize malignancy. Their modern laboratories ensure quality histological, histochemical, immunohistochemical, imunfluorescentnu, ultrastructural and molecular analysis. Research is being conducted on tumours of different cancer sites, such as kidney, breast, larynx, lung, oral cavity, and colon cancers, as well as melanoma and multiple myeloma. More specifically, they study the role of angiogenic factors VEGF-A and C, and HIF-alpha and other biomarkers that promote tumour growth, such as EGFR, OPN, cyclin D1 and NF-kB, and the effect of extracellular proteases (MMP) on the spread of neoplastic process. Previous studies have found an association of increased expression of HIF-1alpha, EGFR and OPN, and the poor prognosis of patients with renal, oral cavity, breast and lung carinoma and melanoma ([Exp Clin Cancer Res 2009;28:40;] Biomed Sci 2012;19:40, J Oral Pathol Med 2013;42:620; Appl Immunohistochem Mol Morphol 2014;22:464, Acta Histochemica 2014;116:222, Melanoma Res 2014;24:584). In contrast, in breast cancers, the expression of cyclin D1 correlated with longer survival in premenopausal patients (Mod Pathol 2010; 23: 392) and the expression of NF-kappaB in breast luminal A subtype (Appl Immunohistochem Mol Morphol 2014; 22: 464). The role of certain signalling molecules for the expression of particular biomarkers has also been established, such as the association of gene expression of EGFR with expression of OPN and NF-kB signalling pathway (Clin Transl Oncol 2013; 15: 65), as well as a significant link between protein and gene expression of VEGF-A and activated NF-kB (CMJ 2008; 49: 608). The severity of mucosal lesions of the larynx is associated with the protein expression of EGFR, and EGFR gene amplification with carcinogenesis itself (CMJ 2009; 50: 370; App Immunohistochem Mol Morphol 2014; 22: 674). The morphology of myeloma cells can also have a prognostic significance (Cytopathol Diagn 2013; 41: 947) as well as angiogenesis and fibrosis in the bone marrow microenvironment in patients with multiple myeloma (Am J Clin Pathol 2012; 137: 870). Furthermore, the value of angiogenic factors VEGF, OPN-a and MCP-1 in the plasma also have a clinical significance (Biomed Res Int. 2014; 2014: 513170 Biomed Res Int. 2016; 2016: 7870590). Previous



research has contributed to a better understanding of the complexity of the role of VEGF and OPN in the process of angiogenesis in the bone marrow of patients with MGUS and MM (Pathol Res Pract. 2016; 212:509). These angiogenic factors could play a key role in activating the angiogenic switch. Such knowledge could contribute to finding new treatments and prevention of progression of malignancy. The aim of future research is the identification of new biomarkers that can help in the early diagnosis and early detection of the malignant potential of tumour cells, as well as identification of potential targets for effective therapeutic strategies in terms of application of personalized medicine. In 2011, the Institute set up a Biobank, as part of the TransMedRi EU project, with the aim of systematically collecting biological material with basic clinical datam thus creating the preconditions for future translational research based on human material.

The research team of the Department of Medical Informatics, led by Professor Mladen Petrovečki, has been investigating for 15 years already the incidence and characteristics of unauthorized downloading of copyright ownership (plagiarism) in the field of biomedicine, due to which they have become recognized in the national and international scientific communities. The team consisted of three experienced researchers (Prof. Mladen Petrovečki, Assoc. Prof. Lidija Bilić-Zulle and Assoc. Prof. Gordana Brumini) and four doctoral students, of whom three obtained their PhD degree on the subject of unauthorized downloading of copyright ownership in the last five years. In the previous period, investigation of scientific integrity included studying the phenomenon of academic integrity in the student environment and in the broader scientific community, which resulted in determining the personality traits that indicate a higher predisposition for plagiarism. They also found occurrencies of plagiarism in the Croatian Medical Journal (CMJ), Biochemia Medica (BM) and Acta Stomatologica Croatica (ASCRO). The features of scientific plagiarism in the entire international scientific community were established through a systematic review and metaanalysis of published scientific studies that measure the incidence of plagiarism via questionnaires or computer programs to detect plagiarism, and their original methodology of systematic review with meta-analysis has been internationally recognized. In the last five years, Assis. Prof. Ksenija Baždarić has became editor-in-chief of the journal of the European Association of Scientific Editors (EASE) European Science Editing, and editor for scientific integrity in Croatian Medical Journal (CC, 2015 IF = 1.483). Vesna Šupak Smolčić, MS. mag. biochem., has been appointed editor for scientific integrity in Biochemia Medica (CC, IF = 3.015), and Martin Mavrinac, PhD, the statistical editor in Croatian Medical Journal and Medicina Fluminensis.

Researchers of the Institute for Biology and Medical Genetics of the University of Rijeka Faculty of Medicine have been engaged in the past five years in scientific research in various areas of medical genetics. This group, led by Professo Bojana Brajenović-Milić, investigated global DNA methylation and the Down syndrome. Professor Smiljana Ristić led a group that specializes in genetic analysis of multiple sclerosis, and Professor Saša Ostojić and his associates investigated genetic factors in the etiology of frequent miscarriages. Professor Andjelka Radojčić Badinovac has been working on research into the quality of human gametes, while Professor Alena Buretić-Tomljanović examined the genetics of phospholipid metabolism in schizophrenia. In the area of clinical trials, Assist. Prof. Nada Starčević Čizmarević analyzed the role of iron in the ethiopathogenesis of multiple sclerosis. Prof. Miljenko Kapović has worked on genetic research of the indigenous population of the island of Cres. The diversity of research conducted in the field of medical genetics has attracted the interest of many colleagues from the hospital and medical practice in general, so they also collaborated in these projects. This work resulted in publication of dozens of joint scientific papers, and created additional forms of cooperation with clinicians in the field of diagnostics in the field of genetics.

The research group led by Professor Dragica Bobinac of Institute for Anatomy has been exploring the mechanisms of ischemia/reperfusion injury of tissues and the possible therapeutic or protective approaches. The group consists of a postdoctoral researcher, Tanja Ćelić, PhD, and two doctoral students. Successful cooperation has been established with the Clinic for Urology and the Clinic for Anesthesiology and Intensive Care. The group has established and developed models for studying mechanisms of ischemia/reperfusion injury of the kidneys and the spinal cord, and the potential use of anti-oxidative and anti-fibrotic therapeutic approaches, such as the application of recombinant human bone morphogenetic protein (BMP7). In addition, this research group is engaged in the pathophysiological mechanisms of vascular calcification in vitro models.

The general focus of the research conducted by the group led by Professor Jadranka Varljen of the Department of Chemistry and Biochemistry and consisting od Dijana Detel, Lara Batičić Pučar and Sunčica Buljević with numerous associates was the role and importance of dipeptidyl peptidase IV/CD26 and its structural homologues dipeptidyl peptidase 8 and 9 in the regulation processes important for the development of chronic inflammatory diseases. In order to clarify the mechanisms by which the family of DPP IV/CD26 proteins achieves modulation of immune response, the expression of factors that promote chemotaxis of monocytes, TGF-β and signalling molecule NF-kB is



invetigated. Furthermore, in order to understand the role of DPP IV/CD26 in the mechanisms of tissue regeneration, signal and the transcription factors of angiogenesis are tested. The research is divided into two parts: investigation of patients with chronic diseases (inflammatory bowel disease, rheumatoid disease) and studies in experimental models (ulcerative colitis and Crohn's disease, diabetes mellitus type II and wound healing). In 2012, the University of Rijeka Foundation awarded Diana Detel the annual award in the category of the most successful junior researcher/assistant in biomedical and biotechnological sciences. In 2012, Prof. Jadranka Varljen organized the International Congress FEBS 3+ in Opatija.

The research group of the Institute of Chemistry and Biochemistry, led by Professor Robert Domitrović, investigates the impact of pharmacologically active phytochemicals in the pathology of acute toxic liver and kidney damage in a mouse model. Also, the group is researching the interaction of phytochemicals and cytostatics and their effect on the effectiveness of anti-tumour therapy in vitro, in order to verify the in vitro results on the human xenograft model in mice. The group currently includes doctoral student Iva Potočnjak, MS sanit. ing., as well as a large number of scientists from different departments of the Faculty of Medicine. The aim of the research group is to determine the mechanisms of antioxidant, anti-inflammatory, and antiapoptotic antifibrotic effects of phytochemicals in models of liver damage by hepatotoxicants carbon tetrachloride and kidney damage by chemotherapeutic cisplatin. Understanding the mechanisms of action of phytochemicals in these models contributes to a better understanding of the impact of diet on the prevention of damage to the liver and kidneys, the main organs in metabolizing and eliminating xenobiotics. In addition, this research creates conditions for the development of new hepatoprotective and nephroprotective drugs. The goupd uses the tumour cell model to study the mechanisms of modulation of cytotoxicity of anticancer drugs phytochemicals through MAPK, PI3K, NF-kappaB and other signalling pathways that control the processes of inflammation, apoptosis and autophagy and cell cycle. Understanding these mechanisms contributes to a better understanding of the effect of phytochemicals on the outcome of anti-tumour therapy, which can be used as the basis for the establishment of mechanisms to combat resistance to anticancer drugs to patients and the development of effective therapies. In addition to original scientific papers, the group members published several significant review articles in prestigious journals in the field of toxicology, pharmacology and nutrition (Archives of toxicology 90 (2016); 39-79; Molecular Nutrition and Food Research 60 (2016); 530-541; Toxicology 324 (2014) 98-107; Toxicology 310 (2013) 115-123; Pharmacological Research 65 (2012); 451-464; Current Medicinal Chemistry 18 (2011); 4454-4469; Toxicology and Applied Pharmacology 241 (2009); 311-321).

The group of researchers of the Institute of Medical Physics and Biophysics study the acoustic flow in liquids caused by ultrasound and analyzes different methods of measurement of ultrasonic beams used in medical diagnosis and treatment in order to ensure safe use of ultrasound for medical purposes. Active cooperation has been established with the Centre for Medical Physics and Radiation Protection of the Clinical Hospital Centre Rijeka on research related to the use of ionizing radiation in medicine. Currently, the focus of research interest is on investigating the limits of computer algorithms for calculating the distribution of the absorbed doses that are embedded in commercial systems for planning radiotherapy, which is intended to be done using Monte Carlo problem simulation. In this, limitations of the methodology for the experimental verification of calculation of the absorbed doses within non-homogeneity will be investigated and means of its improvement proposed. It is planned to study the gold standard in dosimetry of high energy ionizing radiation beams used for intensity-modulated radiation therapy (IMRT). The cooperation between the Institute and the Centre on research related to diagnostic radiology has been very productive. Currently, intensive work is being carried out on optimizing the procedures of computer tomography in the framework of technical cooperation with the International Atomic Energy Agency (IAEA) CRO6015 Upgrading Dose Management and Optimization and Computerized Tomography, but also on the introduction of a quality assurance system in ultrasound diagnostics. The Institute of Medical Physics and Biophysics also has a laboratory for measurement of light stable isotopes (Silab), in which small changes in the isotopic composition of O, H and C which show the evolution of the systems in geophysics, geochemistry, hydrology, climatology, paleoclimatology, meteorology are studied.

The Department of Social Medicine and Epidemiology has a research group led by Professor Tomislav Rukavina, consisting of four researchers: Vanja Vasiljev Marchesi, Lovorka Bilajac, Darko Roviš and Gordana Šimunković. In their research they focus on two important public-health phenomena: the exploration of factors that affect the quality of life of the elderly in order to develop strategic directions for its improvement, and social and genetic factors in drug addiction, aimed at developing programs for successful social reintegration of drug addicts. Both studies were initiated in the framework of two international collaborative projects in which the Department is the leader member of the Faculty of Medicine as a partner institution.

Scientific research at the Clinic/Department of Internal Medicine covers the main areas of internal medicine. Over



the last five years, scientific research at the Institute for Gastroenterology was carried out mainly in the field of pancreatology and hepatology. The group of Professor Davor Štimac completed the research project "Enteral nutrition in patients with acute pancreatitis". Another two randomized clinical trials have been initiated: the use of ceftazidime in the prevention of post-ERCP acute pancreatitis led by Assis. Prof. Goran Hauser, and prophylactic use of antibiotics in the treatment of acute pancreatitis. In the area of hepatology, research was done into the nonalcoholic fatty liver disease, led by Ivana Mikolašević, PhD, and the correlation between genotype and phenotype of patients with elevated serum iron, led vy Professor Sandra Milić. In collaboration with the Cochrane hepatobiliary group of Copenhagen, diseases of the upper digestive tract and the pancreas were investigated, with special engagement of Vanja Giljača, PhD, and Goran Poropat, PhD. Among other awards, it should be noted that Ivana Mikolašević, PhD, received the Borislav Nakić Award of the Croatian Academy of Medical Sciences, awarding Croatian authors younger than 35 years for the best scientific paper published in 2015. Researchers at the Institute of Hematology and Rheumatology with Clinical Immunology continue their years-long research of the biology, and morphology of non-Hodgkin's lymphoma (especially aggressive B-cell lymphoma) and multiple myeloma, as well as the study of clinical aspects of systemic sclerosis, systemic lupus erythematosus and rheumatoid arthritis in which are included Professor Antica Načinović-Duletić, Professor Toni Valković and Professor Srdjan Novak. The Ward of Rheumatology and Clinical Immunology was engaged in international scientific/professional FP7 project "Determining the optimal methods of waste systemic sclerosis", with Ulf Müller as the principal researcher. The Department is an active centre of the EUSTAR group, which conducts research on patients with systemic sclerosis. International cooperation hs been established with the Max Planck Institute for Metabolism Research of Cologne, Germany, and the Lautenberg Centre for General and Tumor Immunology, The Hebrew University Hadassah Medical School of Jerusalem, Israel. Over the past five years, Professor Luka Zaputović of Cardiology led a team that conducted four international randomized clinical studies in the field of ischemic heart disease, acute coronary syndrome, pulmonary hypertension and interventional cardiology. Areas of continuous scientific research in Nephrology in the last five years included peritoneal dialysis, hemodialysis, kidney transplantation and cardiovascular risk factors in patients with chronic kidney disease. Scientific cooperation has been established with the Clinical Centre of Sarajevo in research into the volume status of patients on hemodialysis. The areas and topics of scientific research in Pulmonology were genetic investigations of susceptibility to developing tuberculosis, lung cancer genetic research, genetic research of Toll-like (TLC) receptors, and investigation of epidemiology of nontuberculous mycobacteriosis. International cooperation has been established with the research group of Professor Zlatko Dembić, (Oslo, Norway), research groups from Iceland (Institute deCODE genetics/Amgen Inc., Reykjavik, Iceland, Faculty of Medicine and School of Health Sciences, University of Iceland, Reykjavik, Iceland) and the one led by Professo Alexander N.R.Weber, head of the Immunology Department of the University of Tübingen, Germany. This international cooperation resulted in the publication in the past five years of two papers in journals with high impact factor (Nat Genet, 2016 and I Biol Chem, 2012).

Department of Surgery, led by Assoc. Prof. Tedi Cicvarić, organised training of the teaching staff of the Medical Faculty and Rijeka University "Teaching Clinicians to Teach" and "Teaching Professionals to Teach". Assist. Prof. Marko Zelić traditionally organises the Congress of the Croatian Society of Digestive Surgery with international participation and international advanced course "Laparoscopic surgery of the colon," intended for the education of specialists in the field of digestive surgery.

The Department of Orthopedics and Physical Medicine, led by Professor Branko Šestan, has several active research groups. The research group led by Professor Anton Tudor deals with polymorphisms Actn 3/R577X, ADRB 2, ADRB 3 and ACE in top athletes in team sports, the connection between genetic polymorphisms with indicators of muscle fatigue after a concentric-eccentric muscle contractions, and developmental disorder in infant hips with the new L value in the evaluation together with Assis. Prof. Ivan Rakovac. Research carried out by Tomislav Mađarević, PhD, is directed at the ultrasound-guided operative techniquein the treatment of Haglund disease. Assist. Prof. Zdravko Jotanović participated in the project of Professor Zlatko Dembić, investigating the genetic risk by linking polymorphisms of proinflammatory/regulatory cytokine with osteoarthritis of the temporomandibular joint, and also on the project of Professor Biserka Mulac-Jeričević, who studies the effects of progesterone in reproductive and non-reproductive tissues. The interest of Professor Gordan Gulan is directed to the study of pathophysiological mechanisms of destruction of joints in rheumatoid arthritis and osteoarthritis, which is realized through two research projects. He also participates in the study of anthropological parameters of the hip and the knee with a view to creating software support that would allow creation of customized artificial joints, ans is also the organizer of several international scientific conferences in the field of arthroscopic and minimally invasive surgery

Research group "Animal models of kidney transplantation", led by Assis. Prof. Josip Španjol (Department of Urology) and Professor Dragica Bobinac (Department of Anatomy) operates at the Departments of Anatomy and Urology of



the Faculty of Medicine. The group examines ischemic/reperfusiondamage of transplanted kidney in a rat kidney transplantation model. Their findings have been published in prestigious scientific journals and have been submitted for patenting new preservation solution(procedure underway) which reduces ischemic damage in a stored organ.

The Department of Psychiatry and Psychological Medicine, led by Professor Tanja Frančišković, carries out scientific research in two directions. One is performed in collaboration with the Department of Biology and refers to the determination of candidate genes associated with schizophrenia and depression, in the context of which a a doctoral student is preparing the doctoral thesis. Another area of research is psycho-trauma, which includes investigating the effects of post-traumatic stress disorder on the dynamics of the family and children, and finding the mechanisms for transgenerational transmission of trauma, exploring the role of psychological trauma in the incidence of schizophrenia and association of PTSD and sexual disorders in veterans.

The group led by Professor Damir Miletić of the Department of Radiology has been exploring MR biomarkers in diagnosing, monitoring and predicting the course of Crohn's disease, as well as conducting additional research in the area of cardiac MRI, multimodal diagnosis of breast cancer, new sequences at MRI brain searches and optimization of CT procedures.

The research group in clinical otolaryngology has been active since 2013 under the leadership of Professor Tamara Braut on the project Molecular markers in precancerous lesions and invasive cancer of the larynx. The development of molecular and cell biology has enabled better understanding of a complex stepwise process of carcinogenesis. The state-of-the art immunohistochemical (IHC) analyses, FISH and microarray technology enable a more detailed analysis of molecular markers. Our goal is to confirm the correlation of EGFR expression of proteins and genes, and acquire further knowledge of their significance in laryngeal carcinogenesis. The project operates in cooperation with the Department of Pathology. The research team consists of Prof. Tamara Braut, Assis. Prof. Milodar Kujundžić, Prof. Radan Starčević, Assis. Prof. Marko Velepič, and three doctoral students. Collaborators of the Institute of Pathology are: Prof. Mira Krstulja and Andrea Dekanić, PhD.

Scientific work the Department of Oncology and Radiotherapy consists of tests of the immune system in patients suffering from cancer of the urological and digestive systems. Lately, we have been monitoring the levels of certain blood parameters indicating a possible prognosis of patients with renal carcinoma. We monitor and analyze various parameters in patients who are in the terminal stage of malignancies.

The research group in Immunoderrmatology, led by Professor Marija Kaštelan, operates at the Department of Dermatology and consists of three experienced researchers (Ines Brajac, Larisa Prpić Massari, Sandra Peternel) and one doctoral student. The group works on research in the field of immunogenetics and immunopathogenesis of papulosquamous diseases, especially psoriasis and lichen planus as models of chronic inflammatory immune-mediated diseases (IMID). Research is underway investigating the role of various cytolytic mechanisms in the development of psoriasis and lichen planus, especially those mediated by perforin molecules and Fas/FasL system, and in recent years also the role of TRAIL/ TRAIL-R1 (DR4) i TRAIL-R2 (DR5) molecule systems. In addition, the group intensively investigates the role of HVEM molecules (Herpes virus entry mediator), one of the LIGHT cytokine receptors known also as TNFRSF14 or CD270, as well as new cytolytic molecules granulysin and perforin-2 in psoriasis and lichen planus. In the last ten years, they have defined the HLA haplotype as psoriasis susceptibility gene in Croatian patients, stressed the key role of immune factors, particularly various cytolytic mechanisms, in the pathogenesis of psoriasis.

The area of research interest of the Department of Oral Medicine and Periodontology and the Department of Endodontics and Restorative Dentistry is related to tissue response to materials used in dental medicine, which is also in the focus of numerous clinical and experimental inestigations. Professor Sonja Pezelj-Ribarić has led projects of epidemiological studies of oral health and pathological changes in the soft and hard tissues of the oral cavity in Rijeka population, including the effects of pulsed and continuous biostimulation laser on fibroblast culture. The areas of research interest of the Department of Orthodontics are oral corrosion of dental materials, behavioral dental medicine and the public health aspect of malocclusion, led by Assoc. Prof. Stjepan Špralja. For the purposes of translational medical research, the Department has initiated the establishment of the Bank of Dental, Oral and Perioral Biosamples, which is in function as part of the TransMedRi Biobank.

The research group of the Department of Prosthodontics is working on the ethiopathogenesis of orofacial pain under the leadership of Professor Ivona Uhač. The research team is composed of experienced researchers (Zoran Kovač, Robert Antonić, Sunčana Simonić-Kocijan, KeWei Wang) and doctoral candidates. International cooperation has been



established with Peking University Health Centre, Beijing, PR China. They created an animal model of chronic stress and occlusal interference on which they tested the soreness of the masseter muscle and the connection between the pain and systemic and local values of IL-6. In the last three years, they have developed an animal model of causing bilateral soreness of the masseter muscle after unilateral inflammation to explore the connection between the pain and the changes in the expression of TRPV1, P2X and P2Y receptors at the level of neurons of the trigeminal ganglion, hippocampus and thalamus. Another group of researchers from the same Department study the quality of life in patients with functional disorders of the stomatognathic system under the leadership of Prof. Renata Gržić. The research group of the Department of Pediatric Dentistry deals with the problem of chewing effectiveness in children under the guidance of Assoc. Prof. Danko Bakarčić.

Appendix 5 – List of active projects of the Faculty of Medicine in Rijeka in the period 2011-2015

1.2. The number and workload of teachers engaged in doctoral studies ensure quality doctoral education.

The courses of the doctoral study in Biomedicine are delivered by 100 teachers, of whom 94 have been elected in research-teaching titles at our Faculty, which is 94%. The doctoral studies are also delivered by some teachers of the Faculty of Medicine of the University of Zagreb, Dr. Andrija Štampar Institute of Public Health, the Faculty of Medicine and Biotechnology of the University of Ljubljana, and guest lecturers from the Faculty of Medicine in Hanover and the National Institute of Ohio. The total workload of most involved teachers is in accordance with the needs of the study. We believe that the number and workload of teachers who participate in the execution of the study provide quality doctoral education.

1.3. The teachers are highly qualified scientists for the courses that they deliver and to which they are committed and thus provide quality doctoral study.

Teachers at the doctoral study in Biomedicine are recognized scientists, qualified for their courses and the topics in which they are intensively engaged, which ensures quality doctoral study. Their research papers are entered in Table 1 with links to the CROSBI database in which scientific works of the teachers are presented in detail.

1.4. The number and qualifications of mentors ensure the quality of a doctoral thesis.

The mentor:doctoral student ratio at the doctoral study in Biomedicine is 1: 2.3. Publications are numerically listed in Table 2 and visible via the link to the CROSBI database. International and national scientific research projects and the role of mentors in them in the observed period are listed in Appendix 5. The study completion rate is given by the year of study under point 3.2. and can generally be considered as unsatisfactory, except for the differential years that included doctoral students with previously acquired master of science degree or exams passed in the postgraduate master's study in Biomedicine provided they had published at least two papers indexed in Current Contents. The rate of study completion per individual mentors is uneven, which can be explained by the fact that students enrolled in the doctoral program according to a fixed quota rather than a topic or a mentor. For this reason, the reform of the doctoral program will largely affect primarily mentoring.

It should be noted that the total time allowed for the defence of the doctoral thesis is 6-10 years, so that the current study completion rate does not represent the final result, namely, does not fully reflect the real situation.

1.5. The HEI has developed a method of checking the qualifications of teachers and mentors.

Qualifications of mentors and teachers are periodically reviewed on the occasion of their re-election, according to the Regulations on Conditions and Procedure of Election into Titles and Corresponding Positions of the Faculty of Medicine in Rijeka - http://www.MedRi.uniri.hr/hr/dokumenti/znanstvenoistrazivacki-rad-izbori-u-research and teaching-zvanje.html) which include more rigorous criteria than those required by the Parent Commission at the national level. The draft programme of the doctoral school (Appendix 6) includes an elaborated grading system of potential mentors aimed at calculating the actual mentoring capacity of every teacher who wants to compete with a topic of doctoral research. This proposal was adopted by the Faculty Council in its decision of 18 September 2012 (Appendix 7) but has not been completely implemented yet due to disagreements between the University and the Faculty regarding the establishment of the doctoral school at the School of Medicine, which includes a fundamental reform of doctoral studies, including Biomedicine, is likely to continue as well. The decision of the University of Rijeka on the requirements for mentors, which will come into force in 2018 because of the time required for adjustment, clearly defines the criteria to be met by any potential mentor in order to apply for doctoral studies with a research proposal.



1.6. The HEI has quality research resources in accordance with the requirements of the scientific/artistic field in which it delivers the doctoral program.

Theoretical and practical training of doctoral students is mostly carried out on the premises of the Faculty of Medicine (B. Branchetta 20), where clinical institutes/departments and common areas for teaching (classrooms) and most other scientific infrastructure is located. Most clinical institutes/departments are located in the premises of our teaching bases (CHC Rijeka, Teaching Institute for Public Health of Primorje-Gorski Kotar, Lovran, and others). In addition to the main building, in Faculty premises include the Institute of Molecular Medicine and Biotechnology, the Centre for Proteomics (CAPRI) and the Mice Breeding and Engineering Centre (LAMRI). The above mentioned components of the Faculty of Medicine have modern laboratories such as: laboratories for molecular biology, laboratories for cell cultures, histological laboratories, biochemical laboratories, a laboratory for confocal microscopy, a laboratory for the production and purification of proteins, a laboratory for mass production of monoclonal antibodies, a laboratory for electronic microscopy (Institute for Pathological Anatomy – within the CHC Rijeka), a laboratory for microinjection and engineering of transgenic mice, laboratories for flow cytometry and cell sorting, a laboratory for gas chromatography, and various other specific laboratories. All the laboratories are at the disposal of doctoral students and practical classes are occasionally organised in them. The level of equipment of laboratories is at a high level and new sophisticated equipment is continuously supplied. The Centre for Laboratory Mice Breeding and Engineering also has two modern SPF (specific pathogen free) vivariums for mice breeding with a collection of over 80 various conventional and transgenic strains, which are also available to our experimental researches and doctoral students for their research. The Centre for Proteomics has started mass production of monoclonal antibodies for various viral and other antigens, which is also a source of reagents for research in protein biochemistry, immunology, and other disciplines. The theoretical part of instruction is delivered in the Faculty's Council Chamber, which is primarily reserved for the needs of the doctoral study and is appropriately equipped with modern teaching aids.

Clinical research is carried out in the teaching bases of the Faculty of Medicine in Rijeka, such as: Clinical Hospital Centre Rijeka, Special Orthopaedic Hospital in Lovran, Thalassotherapy in Opatija, and the Teaching Institute for Public Health in Rijeka. All school constituents in which doctoral students have practical classes and carry out experiments are well equipped with computer equipment. Every institute has computer equipment that is constantly at the doctoral students' disposal during their work. In addition, the school has joint computer equipment in its IT room and in the Faculty library, which is open daily (Monday – Friday) from 8 a.m. to 8 p.m. Computer equipment is constantly renewed and its maintenance is entrusted to the Faculty's IT service. About 10 general biomedical journals can be obtained through the Faculty library (Nature, Science, Cell, New England Journal of Medicine, Lancet, Cancer Cell, Molecular Cell, Genes and Development, etc.), as well as about 60 online databases through the Ministry of Science, Education and Sports (ScienceDirect, Elsevir, etc.). In addition to scientific literature available in the Faculty library, several scientists also have personal subscriptions to some journals of their interest, so doctoral students may partly rely on that source as well.

Appendix 8 gives a table listing educational and scientific material resources of the Faculty.

2. INTERNAL STUDY QUALITY ASSURANCE SYSTEM

2.1. The HEI has defined and adopted effective procedures through which it proposes, approves and implements doctoral education. These procedures include an explanation of scientific/artistic, cultural, social and economic needs.

The proposed study program of the doctoral study in Biomedicine (Appendix 9) has passed the whole accreditation process, which included the adoption of the study program by the Faculty Council of the Faculty of Medicine in Rijeka, the formation of studies pursuant to the decisions of the Senate of the University of Rijeka following international evaluation, the ASHE's positive opinion, and registration of the study in the MSES's register. The proposal has been positively evaluated in all instances, including the proposal introduction in which we pointed out the reasons for initiating this study. On initiating the study in Biomedicine, we were guided by the idea that in the last few decades remarkable progress has been achieved in the field of biomedical sciences, with ensuing duplication of knowledge in this area every few years. Numerous significant discoveries have been made, in particular in the study of the human genome, as well as clarifications of many diseases and disorders at the molecular level. As a result of these important achievements, biomedical sciences and medicine as a whole are expected to develop rapidly in the near future. In order to keep up with these development, it is necessary to educate scientists who must be trained to follow new technologies and scientific knowledge from various scientific sources, but also be capable of independently create new knowledge.

The primary purpose of the doctoral study is quality of scientific education of university researchers. After completion of the study, the researchers are trained in planning, implementation and presentation of their own research, evaluation of the existing and creation of new knowledge in the field of research, and taking responsibility



for successful implementation of research projects. In addition, the doctoral program is the source of recruitment of high-quality and modern university teachers, who will be ready to meet the needs of ever-higher standards of education. Furthermore, this study educate scientists who can work in biotechnological institutes, modern pharmaceutical companies and pharmaceutical laboratories in public and private sectors. They are also able to independently conduct research projects and can become the core of new research groups. The course is also intended for physicians from clinical hospitals. This additional education and training of physicians could raise the level of services provided to patients, enable better understanding and implementation of new technologies in treatments, and further advancement in their research and teaching career, as well as the possibility of establishing and managing research groups at clinics. Students of doctoral studies, in addition to graduates in the field of Biomedicine and Health (all fields and branches), are also former students of natural sciences (Biology, Biochemistry, Chemistry) and even social sciences (Psychology, Education and Rehabilitation Sciences, Bioethics). The doctoral study of Biomedicine is equivalent and analogous to the corresponding studies in most Western European countries and is based on vast experience based on tradition, seeing that the University of Rijeka Faculty of Medicine has been offering postgraduate (doctoral) education for nearly 50 years.

2.2. Starting the doctoral studies is in line with the scientific mission and vision of the HEI, namely, its strategic program of scientific/artistic research.

The doctoral study program complies with the general development strategy of the Faculty of Medicine in Rijeka, including its mission and vision, but requires alignment with the Faculty's Strategy for the Development of Science, adopted by the Faculty Council in July 2016. The existing program of the doctoral study has not changed substantially for over seven years. Recent changes made in 2015 were aimed at updating courses, and the courses that had not been delivered for several years were excluded from the program. it is for this reason that in the coming period we want to implement the strategic objectives adopted in the Strategy for Development of Science (Appendix 3) according to the timetable specified in it. A complete reform of the doctoral study is intended to be complete in 2017. The areas of research which are currently at a high international level include immunology, virology, regulation of cell growth and tumour biology, and infectious diseases. To this can be added certain fields of gastroenterology, imunometabolism, human genetics, neuroscience, toxicology and cell biology. The main strategic objectives are: (1) encourage and reward scientific excellence and innovative research; (2) encourage clinical and preclinical groups that have research potential, but it has not been fully realized; (3) improve the doctoral study. The program of the current doctoral study is not entirely directed towards scientific potentials of the Faculty of Medicine, which the reform of the doctoral study needs to rectify. Moreover, the selection of doctoral students and mentors does not fully respect the strategic objectives, but it should be noted that the status of the clinic teaching bases of the Faculty of Medicine is directly dependent on the number of PhDs. The interest of potential doctoral students is typically higher than the enrolment quotas and the real scientific potential of the Faculty.

2.3. The HEI systematically monitors the success of the program through periodic evaluation of the doctoral study and works on its improvement.

In 2010, the doctoral study program in was evaluated by the following group of reviewers: Prof. dr. Matthias Reddehase, University Medical Centre, University Johannes Gutenberg in Mainz, Mainz, Germany; Prof. dr. Mathias Mueller, Veterinary University of Vienna, Vienna, Austria; Prof. dr. Mary Sopta, Ruđer Bošković Institute, Zagreb, Croatia. In its report, the Commission found a number of shortcomings of the study, such as the insufficiently developed criteria for enrolment in the study, excess workload of students, too many courses (79), irregular classes, insufficiently scientifically oriented course contents, inadequately performed continuous monitoring of doctoral students, insufficiently elaborated criteria for mentors, unsatisfactory study completion. In the proposal for the doctoral school (Appendix 6), the identified shortcomings have been corrected, but since the proposal has not yet been fully implemented, in 2015 we updated the current program and reduced the number of courses, elaborated the enrolment criteria and reduced the students' workload of. What still needs to be done are further amendments and establishment of a systematic periodic international evaluation of the programs, as stipulated in the Faculty's Strategy for the Development of Science. (Appendix 3).

In view of a better visibility and the possibility of analysing and monitoring the scientific production of mentors, teachers and associates at the Faculty of Medicine in Rijeka, we have implemented a systematic presentation of research papers using the Web of Science (WoS) Core Collection database for each calendar year as of 2009, as well as enabled tables to be seen on the SharePoint portal of the Faculty so that they are accessible to teachers, postdoctoral students and doctoral candidates. The tables are made in Excel and enable search by the principal investigator, the impact factor, the ranking of a journal in their respective group, the title of the work, and the like. A systematic presentation of scientific works will allow us to monitor and analyse the scientific production of mentors and doctoral candidates . The Quality Assurance Manual (Appendix 10), on its page 29, defines the procedures for



ensuring the quality of scientific and research activities.

Feedback is obtained through a survey given to doctoral candidates systematically on an annual basis (Appendix 11). The Commission for Postgraduate Studies and Continuing Education performs the role of a council for doctoral studies that oversees the progress of doctoral students during their studies.

On the basis of these procedures, changes have been implemented in the new proposal for the doctoral school (Appendix 6) that we intend to further amend and implement by the end of 2017.

2.4. The HEI systematically monitors the success of the mentors, has mechanisms for evaluating or changing them, as well as for solving the possible problems between a mentor and a doctoral student.

The scientific success of doctoral students is given in Appendix 12, which lists all the doctoral students and the doctoral theses they defended since the establishment of doctoral study, and in section 3.2., which lists the average study completion rate by the academic year of enrolment. If a doctoral student requests the change of their mentor, they must give the reasons for the change and submit a signed consent of both the former and the new mentor. If the change is requested by the mentor, the request must be accompanied by a detailed explanation of the reasons for the abandonment of mentoring. The possible change of the mentor is examined by the Commission for Postgraduate Studies and Continuing Education, which submits its proposal to the Faculty Council, which in turn decides on the possible changes.

2.5. The HEI provides academic integrity and freedom of scientific research.

For several years already, the Faculty of Medicine in Rijeka has been working on a systematic improvement of academic integrity. Fabrication, falsification and plagiarism, and any other form of improper appropriation of the results of someone else's work and, generally, misconduct, are stressed in teaching to raise the students' awareness of them (the mandatory course "Introduction to Research" and elective course "Academic Writing" offered at undergraduate/graduate levels, and the mandatory course in "Scientific Research Methodology" in the doctoral studies). In addition, although the University of Rijeka has its Code of Ethics, The Faculty of Medicine has prepared and adopted its own documents - the Code of Ethics of Teachers, Associates and Researchers (2010) and the Code of Ethics of Students (2012), and is preparing its Code of Ethics of Professional Services, which will make it unique at the state level. Permanent Ethics Committee for Protection of Academic Integrity, Safeguarding the Dignity and Promoting the Reputation of the Faculty (founded in 2011), appointed by the Dean, has five members and meets as required, on the basis of complaints filed (on average twice a year). The procedure of reporting is prescribed by the Rules of Procedure of the Ethics Committee (2012), on the basis of which the Committee's opinion is submitted to the Dean, who decides on further measures (with the possibility of initiating disciplinary procedures prescribed by special regulations, written warnings, etc.). It should be noted that this Committee differs by its composition and scope from the Ethics Committee for Biomedical Research, which issues certificates of compliance of research protocols with positive acts (more members, higher interdisciplinarity, and members are appointed by the Faculty Council).

For the purpose of conducting scientific and academic integrity, in particular to reduce the prevalence and proportion of plagiarism in theses and other papers during doctoral studies, the Faculty of Medicine uses Turnitin, the internet-based plagiarism-prevention service. A license issued by the University of Rijeka provides each teacher of the Faculty of Medicine with unlimited access to Turnitin, which allows them to check the compatibility of a text with sources on the internet and electronic databases of papers and theses at the university and beyond. This network service allows analysis of texts, access to matching sources, assessment and review of submitted texts, and enables electronic communication between students and teachers for the purpose of joint work on a thesis. Prior to acceptance of the final thesis version, the mentor is required to make a final analysis of the text and confirm the authenticity of the work in accordance with the functions of a computer program. The report on verification of the authenticity of student work is submitted on the prescribed form of the University, which is an integral part of the basic documentation for thesis defence. It is at the mentor's discretion to accept the proportion of parts taken from other sources if they consider it appropriate and do not find it to be plagiarism, but a general recommendation of the Faculty of Medicine is that the proportion of text directly adopted from other sources does not exceed 10% (excluding the bibliography, direct quotes in quotation marks and the stipulated parts of the thesis, such as the titles and the like.), which is in accordance with the criteria of other reputable universities in the world. Support to students and teachers in using Turnitin is provided by extensive instructions available on the Faculty website and by the Faculty's Turnitin program coordinator Prof. Lidija Bilić-Zulle.



2.6. The procedure of writing and defence of the doctoral thesis is clear and objective, and includes public presentation of the topic of doctoral research.

The procedure of writing and defence of the doctoral thesis is clear and objective, and includes public presentation of the topic of doctoral research. The procedure is defined in the **REGULATIONS ON STUDIES OF THE UNIVERSITY OF RIJEKA** of 1 July 2008 (Articles 64 and 65: Registration of Thesis Topic, and Thesis Proposal Defence). These two Articles stipulate the content of the registration of a thesis topic, the obligation to attach the proposed mentor's agreement and the approval of the Ethics Committee of the institution delivering the study.

In accordance with the above Regulations and the **REGULATIONS ON WRITING A DOCTORAL THESIS OF THE UNIVERSITY OF RIJEKA** of 16 May 2013 and the **Statutes of the University of Rijeka** (of 15 February 2015) and of the **Faculty of Medicine** (of 28 September 2010), two commissions of the University of Rijeka Faculty of Medicine (for Scientific Research, and for Postgraduate Studies and Continuing Education) compiled the **Instructions for registration of the doctoral thesis topic and writing the doctoral thesis** attached hereto (practical instructions for doctoral students, provide detailed information on registration, public defence and assessment of the doctoral thesis topic, as well as the submission of a doctoral thesis for assessment and the procedure of assessment and defence of the doctoral thesis. The Instructions are posted on the website of the Faculty's Commission for Scientific Research (under Scientific Research). Information, in addition to the website, can be obtained from officials of the Service for Scientific Research.

Application for registration of a thesis topic is submitted on DrS1 form of the University of Rijeka (Appendix 13), which is available on the website of the University of Rijeka (Forms) and on the website MedRi (Scientific activities, Commission for Scientific Research). DrS forms of the University of Rijeka have been used for the doctoral studies of the Faculty of Medicine in Rijeka since September 2015. The instructions guide doctoral students through the form and explain where they should enter general data, the title of the proposed topic, and the names of proposed mentors. They also explain the purpose of justification of the topic and its content (a review of previous studies, the objectives and hypotheses, materials and methods, ethical aspects, statistical analysis of results, the expected scientific contributions, and literature citations) and the manner in which the abstract should be compiled. The abstract with respective keywords should be presented in both Croatian and English. Before the introduction of the application form, applications for topic registration did not comprise an abstract but only key words in Croatian and English. DrS1 form contains a field for stating the source of funding that will cover the costs of preparing the thesis. The form must be signed by the mentor(s) (confirming their agreement with the proposed topic) and by the doctoral candidate, indicating the date of signature. By signing it, the doctoral candidate confirms that no identical proposal of the thesis is being simultaneously submitted to another university. The form should be accompanied with the candidates CV on the structured form available on the University and MedRi websites. Before the introduction of DrS1 for, application for registration of the thesis topic also contained all these elements, but not in a single document.

Following the review of the proposed doctoral thesis topic and adjustments made in accordance with the recommendations of the Commission for Scientific Research, the Faculty Council appoints an Expert Commission for Assessment of Doctoral Thesis and Doctoral Thesis Defence. The Commission consists of an odd number of members (at least three), of whom **at least one is the research and teaching position or a relevant scientific position in another scientific institution of the University of Rijeka or another university**. Members of the Commission are elected from among experts in the scientific field or a branch of the thesis. Furthermore, the decision of the Faculty Council of 15 May 2001, stipulates that at least one member is to be elected from among experts of another scientific field (Basic or Clinical Medical Sciences). None of the proposed mentors can be elected members of the Commission.

PUBLIC DEFENCE AND ASSESSMENT OF THE DOCTORAL THESIS TOPIC

Public defence of the thesis topic is regulated by the **REGULATIONS ON STUDIES of the University of Rijeka** of 1 July 2008 (Article 65: Thesis Proposal Defence). The Instructions (attached) contain a detailed description of the procedure of public defence and assessment of the topic. The time and place of the public defence of the doctoral thesis are advertised on the MEDRI website at least seven days in advance and the information is also sent to all the MEDRI Departments by e-mail. The Instructions inform the doctoral student that the Commission may request that some amendments be made to the application for registration, and also explain the procedure to follow until the application is in accordance with the request of the Commission. Furthermore, the Instructions inform the doctoral student about deadline for the public defence, namely, when they can expect to receive the Commission's report once all the obligations related to the application and public defence of the thesis topic have been fulfilled.



Public defence of the doctoral thesis is held according to the planned **protocol** (Appendix 13). The protocol of public topic defence is described in the MedRi Instructions (p. 7) and is publicly available. After reading the general personal details of the doctoral candidate and the introduction of the members of the Commission, the candidate has at their disposal between 20 and 30 minutes to present their topic. The presentation includes a review of issues, recent findings, the hypotheses and objectives, materials (subjects) and methods, and the expected scientific contribution. After the presentation, the candidate is asked questions first by the members of the Committee, and then by those present in the audience, namely, a discussion follows. The course of the public defence is recorded in the minutes, which state the time of commencement, the duration of the candidate's presentation, the questions asked after it, as well as the comments, remarks and suggestions of the Commission members. The minutes are signed by the Commission members, who also state whether the doctoral thesis topic has been accepted, accepted with modifications, or rejected. Before reaching their final decision, the Commission members convene in the absence of the doctoral candidate (who leaves the room).

The Expert Commission submits its written report on DrS2 form of the University of Rijeka (Appendix 13, available on the Faculty website, like the former DrS1 form). In addition to general information about the doctoral candidate, the study, the mentors and members of the Expert Commission, and the previous scientific activities of the doctoral candidate, DrS2 form also contains the report on the public defence (specifying the place and time of the public defence, the duration of the candidate's presentation, questions by members of the Expert Commission and the audience, etc.) and the assessment of the proposed topic. In its assessment of the topic, the Expert Commission states what the doctoral candidate intends to explore and in which way, and evaluates whether the materials (subjects) and the proposed methods are appropriate for achieving the objectives of the research. Furthermore, the Commission's report, i.e. assessment, on the proposed topic states what modifications and/or additions were requested and confirms that the doctoral candidate has accepted and made them in the text of their application. Following a positive report, i.e. assessment of the doctoral thesis, the doctoral candidate is obliged to submit to the Service for Scientific Research the last, modified version of their application.

Form DrS2 allows for a dissenting opinion in the event of divergence of some members of the Expert Commission and impossibility of their reaching a joint assessment. The report is signed by all members of the Expert Commission, after which the report is considered by the Faculty Council. Reports are available at electronic sessions of the Faculty Council. When adopting a positive report on topic assessment, the Faculty Council also formally appoints the mentor(s).

Appendix 13 Application for registration of the doctoral thesis topic

- a) Instructions for writing the doctoral thesis (UniRi, February 2013)
- b) Instructions for registration of the doctoral thesis topic and writing the doctoral thesis at MedRi, September 2015
- c) DrS1 form: Registration of the doctoral thesis topic (UniRi)
- d) DrS2 form: Assessment of the doctoral thesis topic (UniRi)
- e) Forms for the protocol and minutes of the public defence of the doctoral thesis topic
- Five selected samples of application for registration of the doctoral thesis topic, assessments of doctoral thesis topic (reports), minutes of public defences of the doctoral thesis topic at the doctoral study in Biomedicine for the period 2011-2015

Appendix 14 Samples of application for registration of the doctoral thesis topic with five signed topic assessment forms



2.7. The assessment of a doctoral thesis is the result of scientific evaluation of an independent commission.

ASSESSMENT OF A DOCTORAL THESIS

The procedures of writing, assessment and defence are stipulated in the relevant documents. The doctoral degree can be earned in different ways. Detailed instructions for writing a doctoral thesis at the University of Rijeka and its Faculty of Medicine are publicly available, as well as the forms for the assessment of doctoral theses and the protocols of public defence of doctoral theses.

After completing doctoral research and thesis preparation in writing, doctoral candidate which has previously accepted topic and appointed mentor (s) shall apply to the assessment of the dissertation. Conditions to be allocated pushing meet are prescribed by the **REGULATIONS ON STUDIES of the University of Rijeka** of 1 July 2008 (Articles 66, 67-69: Request for doctoral thesis assessment, Doctoral thesis assessment; Doctoral thesis defence, Defence procedure). The technical instructions for the preparation of the manuscript of the thesis are provided by the UNIVERSITY OF RIJEKA REGULATIONS ON WRITING A DOCTORAL THESIS of 16 May 2013. The University of Rijeka also issued the Instructions for writing a doctoral thesis at the University in Rijeka (February 2013) (Appendix 15), in accordance with which Instructions for registration of the doctoral thesis topic and writing the doctoral thesis were also issued (practical guidance for doctoral students, hereinafter; Instructions). The Instructions are supplemented by useful information for doctoral students, and were last revised on 10 September 2015. They inform the doctoral students in detail about the way a doctoral thesis should be written. They also inform them about the possibility of earning the doctoral degree by writing a monograph or according to the Scandinavian model. Therefore, a thesis can be submitted for assessment in the form of monograph or according to the Scandinavian model, and can be written in the Croatian or English language. If the doctoral student wants to earn their doctoral degree according to the Scandinavian model, Article 63 of the REGULATIONS ON STUDIES OF THE UNIVERSITY OF RIJEKA of 1 July 2008 and Article 2 of the UNIVERSITY OF RIJEKA REGULATIONS ON WRITING A DOCTORAL THESIS UNIVERSITY OF RIJEKA of 16 May 2013 apply. The doctoral student who applies for assessment of their doctoral thesis according to the Scandinavian model must enclose by evidence of at least four scientific papers published in indexed journals and meet the other conditions prescribed in Article 5 of the said Regulations. In the last five years, no applications for a doctoral thesis according to the Scandinavian model have been submitted.

Encouraging the publication of papers in journals with international review before the defence of the doctoral thesis: MEDRI Instructions inform doctoral students that they can submit their thesis for assessment after they have fulfilled all their obligations prescribed in the curriculum of the doctoral study, which is verified by the Confirmation of fulfilled obligations issued by the Commission for Postgraduate Studies and Continuing Education. In addition, the doctoral student's application for assessment of the doctoral thesis must be accompanied by their Declaration of Published Work (Works) in accordance with the decisions of the Faculty Council pursuant to Article 29 of the Statute of the University of Rijeka Faculty of Medicine of 28 September 2010. The Declaration is submitted on forms available on the MEDRI website (Scientific activities, Commission for Scientific Research) and contains the information about the author, the title, the journal, the year of publication and the impact factor of the journal, as well as a description of the thesis. The Declaration is signed by the doctoral student and the mentor (s) (Appendix 15). The rules of publication of scientific papers have been modified several times in the past five years for doctoral students enrolled in 2012-2013 and 2014-15 academic years. The criteria were tightened in the sense that they now impose a higher impact factor of the journal in which the results of the doctoral thesis are published, a bigger number of first-author papers or publication in the first or second quartile of journals listed in the JCR.

Publication of papers in journals with international review is encouraged by the following provisions:

1) Students enrolled in the postgraduate university (doctoral) study before the 2012-2013 academic year should have one first-author or two co-author papers related to the thesis topic published in a CC-indexed journal.

2) Students enrolled in the postgraduate university (doctoral) study in the 2012-2013 or 2014-2015 academic year should publish, prior to the submission of their doctoral thesis for assessment, a minimum of two *in extenso* original scientific papers related to the topic of the doctoral thesis in journals cited in the Science Citation Index Expanded / Journal Citation Report (SCIE/JCR) with an impact factor higher than 1, one of which must be first-author. Alternatively, at least one first-author *in extenso* original scientific paper related to the doctoral thesis must be published in a journal with an impact factor higher than 5 and indexed in SCIE/JCR databases (according to Art. 29 of the MedRi Statute, the decision of the Faculty Council of 26 February 2013).

3) Students enrolled in the postgraduate university (doctoral) study in the 2015-2016 academic year or later should publish, prior to the submission of their doctoral thesis for assessment, a minimum of two original scientific papers related to the topic of the doctoral thesis in journals cited in the Web of Science Core Collection (WoS Core Collection) with an impact factor higher than 1, one of which must be first-author, have two of their papers published in the first or second quartile (Q1/Q2) of the JCR. Alternatively, at least one first-author original scientific paper related to the topic of the doctoral thesis must be published in a journal with an impact factor higher than 5 and indexed in the WoS Core Collection.

4) Students who enrolled in the third differential year of the postgraduate university (doctoral) study in Biomedicine should have one or two first-author or two co-author papers relevant to the topic of their doctoral thesis published in a CC-indexed journal (decision of the Faculty Council of 23 December 2014).

It follows from the above that doctoral students cannot submit their thesis for assessment unless they have published at least part of their doctoral research according to the above provisions.

The mentor must submit a written statement of agreement with the manuscript of the doctoral thesis submitted for assessment, and also check the authenticity of the thesis through the Tunitin system, about which they attach a report on a special form available on the Faculty website (Regulations and documents, Ethics) (Appendix 15). The Commission for Scientific Research controls the technical preparation of the manuscript, evaluates its scientific contribution and makes suggestions to the doctoral student for improving or amending their application where it deems it necessary. When the Commission for Scientific Research is satisfied with the application, it recommends it to the Faculty Council, which in turn appoints at least three members of the Expert Commission for Assessment of Doctoral Thesis. At least one member of the Expert Commission is a scientist from another university or another scientific institution, which is standard practice. The scientific activities of the members of the Expert Commission cover the area of research of the doctoral thesis. The initially granted doctoral thesis topic registration is submitted to the Commission in addition to the manuscript of the doctoral thesis itself to facilitate checking whether the doctoral thesis corresponds to the previously set goals of research.

Encouraging the participation of external members of commissions: an external member is appointed in each expert commission, without exception. This has been the case with each commission for the assessment of a doctoral thesis topic or of a doctoral thesis not only in the past five years, but it has long been common practice at the Faculty. External members are previously contacted by the Commission for Scientific Research and are presented the title of the proposed topic without giving the names of the doctoral student or their mentors. If the external member agrees to participate in the evaluation of the proposed topic and the doctoral thesis, their name is forwarded to the Faculty Council, which confirms the election of all members of the Expert Commission. External members are elected from another university in Croatia (Zagreb, Split, Osijek) or another faculty of the University of Rijeka (Department of Biotechnology, Faculty of Humanities and Social Sciences), but can also be elected from among the international scientific community, which has not been the case in the last five years.

The Expert Commission for Assessment of Doctoral Thesis submits a report within a specified period of time on DrS9 form of the University of Rijeka (Doctoral thesis assessment report) (Appendix 15). This form is also available on the Faculty website (Scientific activities, Commission for Scientific Research). DrS9 form contains general information about the doctoral student, the study, the scientific area, field and branch, the mentors, the Expert Commission for Assessment of Doctoral Thesis and the assessment itself. The assessment includes a brief overview of the content and the main results, the conclusion of the Commission which expressly states the original scientific contribution of the thesis, and the opinion and recommendation to the Faculty Council to accept or reject the doctoral thesis. Also, the field Notes lists the changes that the Expert Commission requested the doctoral student to make and the confirmation that the doctoral student has accepted them and made them in the final version of the manuscript. The signed report is submitted to the Service for Scientific Research, which considers it and then refers it to the Faculty Council for their consideration. The reports on the assessment of a doctoral thesis are available at the electronic sessions of the Faculty Council.

PUBLIC DEFENCE OF THE DOCTORAL THESIS – PROTOCOL

After accepting the positive report of the Expert Commission for Assessment of Doctoral Thesis, the Faculty Council appoints the Commission for Assessment of Doctoral Thesis. In the event of a negative report, the doctoral thesis is rejected and the procedure discontinued. In the event that the report of the Expert Commission does not constitute a sound basis for the acceptance of the thesis, the Faculty Council appoints new members to the Expert Commission



and asks them to assess the thesis.

The defence of the doctoral thesis is public and takes place according to a predetermined **protocol** (Appendix 15). The protocol of public topic defence is described in the Instructions of the Faculty (p. 13) and publicly available. After reading the general details of the doctoral student and presentation of members of the Expert Commission, the doctoral student has 30 minutes to present their doctoral thesis. The presentation includes a review of issues, recent findings, the hypotheses and objectives, the materials (subjects) and methods, the main results, and the scientific contribution of their work. After the presentation, the candidate is asked questions first by the members of the Committee, and then by those present in the audience. The course of the public defence is recorded in the **minutes** (Appendix 15), which state the time of commencement, the duration of the candidate's presentation, the questions asked after it and the proposed changes. The Commission for Assessment of Doctoral Thesis also includes the memor(s).

Appendix 15 Thesis assessment

- a) Regulations on writing a doctoral thesis at UniRi
- b) Form DrS9 Doctoral thesis assessment report (UniRi)
- c) Declaration of published work (MedRi)
- d) Statement of verification of authenticity of student work(UniRi)
- e) Form: Protocol of public defence of doctoral thesis (MedRi)
- f) Form: Minutes of the public defence of doctoral thesis (MedRi)
- g) Seven selected assessments of doctoral theses (reports), mentors' agreement, minutes of the public defence of doctoral thesis in the period 2011-2015 at the doctoral study of Biomedicine

Appendix 16 Samples of thesis assessment and minutes of defences

2.8. The HEI publishes all the necessary information about the study, admission requirements, classes, and the conditions for promotion and completion of the study in easily accessible places and media.

The Faculty of Medicine in Rijeka publishes all necessary information for students on the website of the doctoral program in Biomedicine:

http://www.MedRi .uniri.hr/hr/studenti/poslijediplomski-sveucilisni-doktorski-studiji/biomedicina.html .

In addition to the Faculty website, all important information is sent separately to students of doctoral studies by email. It includes the schedule of lectures, the time of conferences, trainings, schools, scientific forums, reminders of tuition fees due, and the like.

Students can obtain further information also in the Office of Postgraduate Studies from Monday to Friday 8.00 - 16.00 hours.

2.9. The funding raised for the purpose of doctoral education are allocated clearly and in a way that ensures the maintenance and improvement of doctoral education (ensures and supports doctoral students' research in order to help them to successfully complete the program).

The doctoral students of the Faculty of Medicine in Rijeka enjoy full and comprehensive institutional support to their training, which consists primarily of the excellent conditions in the form of spatial and material resources that enable advanced research in the field of biomedicine and health and environmental engineering. Excellent material, technical, scientific and methodological conditions are best described by the modern, state-of-the-art equipment that is available to doctoral students in their work on the doctoral thesis. In this regard, it is worth noting the extremely expensive, but modern devices purchased mainly from the funds of scientific and technical projects conducted or being conducted by the teachers of the Faculty of Medicine in Rijeka and the general funds of the Faculty. It should also be noted that several hundred thousand kunas are spent yearly on contracts for regular servicing of these devices or their revisions alone. The quality of research is also supported by the purchase and maintenance of the required small laboratory equipment and reagents. In addition to these core facilities, the doctoral students also have at their disposal the most modern and one of the largest facilities for laboratory animals breeding in southeast Europe, the Mice Breeding and Engineering Centre (LAMRI). Besides this one, there are also the cutting edge breeding and experimental facilities at the Institute for Physiology and Immunology and the Institute for Pharmacology. Needless to say, these expensive installations, which are maintained and developed from project and the general Faculty funds, open a wide space to advanced in vivo biomedical research and the development of competitive doctoral work at the international level. Other core capacities that the Faculty of Medicine in Rijeka offers to its researchers, and thus doctoral student as well, are the installations for the use of liquid nitrogen freezing. The Faculty of Medicine in Rijeka maintains its IT infrastructure and monitors the development of IT equipment, which it procures and puts to the disposal of its doctoral students for their work on scientific projects. Furthermore



doctoral students have also at their disposal the scientific literature in the form of books or scientific journals, available in paper or on-line form, which are bought from the project or general funds of the Faculty. The Faculty enables its doctoral students to study and exchange of scientific achievements at conferences, symposia, scientific schools and other scientific meetings by covering the cost of travel, stay, daily allowances and fees from its general or project funds. Finally, we should mention that, in addition to subsidising research, the funds raised from tuition fees of doctoral students are partly spent also for covering the overheads and maintenance of the spatial and material infrastructure.

The expenses by accounting items are as follows:

ACCOU	NT ACCOUNT NAME DOC	TORAL STUDY
31	EMPLOYEE EXPENSES	3,811,325.58
32	MATERIAL EXPENSES	1,441,497.94
3211	BUSINESS TRIPS	52,257.78
3212	COMPENSATION FOR TRANSPORT TO AND FROM WORK AND FI	ELD WORK 260,610.05
3213	EMPLOYEE PROFESSIONAL TRAINING	9,023.31
3221	STATIONERY AND OTHER MATERIAL EXPENSES	73,211.20
3223	ENERGY	517,887.01
3224	MATERIAL AND PARTS FOR CURRENT AND INVESTMENT MAIN	ΓΕΝΑΝCE 10,430.84
3225	SMALL INVENTORY	9,531.98
3227	OFFICIAL AND WORKING CLOTHES	4,174.91
3231	PHONE AND MAIL SERVICES	91,241.28
3232	CURRENT AND INVESTMENT MAINTENANCE SERVICES	53,854.25
3233	PROMOTION AND INFORMATION SERVICES	11,763.83
3234	UTILITIES	162,352.46
3235	LEASES AND RENTS	59,083.27
3236	HEALTH AND VETERINARY SERVICES	9,963.51
3237	INTELLECTUAL AND PERSONAL SERVICES	22,417.43
3238	COMPUTER SERVICES	37,817.05
3239	OTHER SERVICES	13,863.78
3293	BUSINESS ENTERTAINMENT	7,468.08
3294	MEMBERSHIP FEES	1,566.86
3295	FEES AND CHARGES	32,979.05
34	FINANCIAL EXPENSES	1,177.68
42	EQUIPMENT	26,030.74
	TOTAL	5,280,031.93
	NUMBER OF STUDENTS	352.00
	PER STUDENT	15,000.09

The tuition fee for the doctoral study is determined on the basis of the calculation of costs incurred by the Faculty of Medicine in Rijeka for undergraduate, postgraduate, specialist and doctoral studies.

CALCULATION OF TUITION FEE FOR DOCTORAL STUDENTS

TOTAL EXPENSES	HRK	31,417,898.16
AND INCOME IN OWN ACTIVITIES, BUSINESS TRIPS, ETC.)	HRK	36,740,535.40
4 REDUCTION OF INCOME (WORK OF TEACHING STAFF IN SCIENCE, WORK	max	075,075.00
3 COMPENSATION FOR TUITION COSTS OF FACULTY OF HEALTH STUDIES (FHS)	HRK	873,675.00
2 GROSS BALANCE OF COSTS CLASS 4 SOURCE 01 (REGULAR OPERATIONS)	HRK	107,237.11
1 GROSS BALANCE OF COSTS CLASS 3 SOURCE 01 (REGULAR OPERATIONS)	HRK	67,177,521.45



NUMBER OF STUDENTS	
5 FULL-TIME UNDERGRADUATE STUDIES (ALL STUDIES)	1091
6 SPECIALIST AND DOCTORAL STUDIES	535
7 PARTICIPATION OF FHS STUDENTS WITH 70%	454
TOTAL	2080

FEE PER STUDENT 15,104.75

(The calculation of the cost per student is obtained by dividing the overall costs of the institution with the number of students)

3. SUPPORT TO DOCTORAL STUDENTS AND THEIR PROGRESS DURING THE STUDY

3.1. The HEI determines the enrolment quotas on the basis of teaching and mentoring resources.

The enrolment quotas for the doctoral study of Biomedicine are approved by the University of Rijeka upon the proposal of the Faculty of Medicine. The quota is determined in line with the general quantitative capacity of available mentors, but in practice the mentors' workload is not optimally balanced, as can be seen from Table 2 in the Appendix. However, most mentors do not exceed the set ratio of 1:3 (129 of them, or 80% of available mentors). To date, we have not applied any evaluation mechanisms for mentoring competencies of each potential mentor. Nevertheless, the criteria to be met by a potential mentor were adopted at the level of the University of Rijeka for different scientific fields. The timeframe set for their alignment is five years, so the deadline for their implementation is the academic year 2018-2019. The Study Agreement regulates mutual rights and obligations between the Faculty and a doctoral student. The student is obliged to acquire the prescribed number of ECTS points of the individual credit group for the current year of study established by by-laws of the University of Rijeka and the study program (Appendix 17).

3.2. The HEI determines the enrolment quotas based on scientific/artistic, cultural, social, economic and other needs.

Economic operators have so far expressed only modest interest for doctors of science in the field of Biomedicine and Health. However, the increase in entrepreneurship in the biomedical field in the wider region, as envisaged in the Development Strategy of the University of Rijeka, the forthcoming development of the Centre for Translational Medical Research – TransMedRi - and biotechnology companies having recourse to the University (Science Park StepRi and Biotechnological Park), the existing pharmaceutical companies (e.g. Jadran Galenski Laboratorij) and health tourism (e.g. Thalasotherapia Opatija, the Istarske Toplice spa, etc.) are likely to result in increased demands for scientific research and scientific-teaching staff.

The survival and development of the clinics and teaching bases of the Faculty of Medicine, particularly the Clinical Hospital Centre in Rijeka, are directly connected with the education of doctoral students and their involvement in scientific work at the clinic. Therefore, the teaching bases and preclinical research groups of the Faculty of Medicine in Rijeka are the most interested in the education of doctoral students. The vast majority of doctors of science who have completed the doctoral study of Biomedicine have a permanent job.

Average completion rate by the academic year of enrolment in the doctoral study:

Academic year 2005-2006 6/22 27.27% Academic year 2006-2007 7/25 28% Academic year 2007/2008 7/36 16.67% Academic year 2008-2009 7/31 22.58% Academic year 2009-2010 5/28 17.86% Academic year 2010-2011 4/36 2.90% Academic year 2010-2011 3rd differential 19/46 41.30% Academic year 2012-2013 3rd differential 1/22 4.55%

We have not analysed the completion rate for the academic year 2013-2014 because the time period is too short for completion of the study given its duration.



3.3. The HEI determines the enrolment quotas depending on the available funding for doctoral students, and on the basis of the absorption potential of research projects or other sources of funding.

A minor part of research carried out by doctoral students is directly financed from projects' funds. However, the Faculty of Medicine fully covers the costs of the study of its employees. The Clinical Hospital Centre in Rijeka participates in the tuition fee of its employees covering a third of the cost, and if these doctoral candidates also participate in the teaching process at the Faculty of Medicine, the Faculty covers another third of the cost. Doctoral students who conduct clinical research use the resources of relevant clinics for their work. The following is a list of all directly funded projects:

List of doctoral students employed in projects:

First and last name	Institute	Project(s) Croatian Science Foundation- Development of a model for the treatment of viral infections by linking innate and adaptive immunity by fusion proteins (04-16); European Commission, FP7 - TransMedRi ; BICRO - New strong CMV promoter for protein and RNA production; European Commission ERC - StAdvInn; IPA
Ilija Brizić	Centre for Proteomics	Adriatic CBC - PACINNO
Lea Hiršl	Centre for Proteomics	European Commission ERC - StAdvInn
Paola Kučan Brlić	Centre for Proteomics	IPA III C SIIF - EntrepMedRi; Croatian Science Foundation- Molecular mechanisms of the immune effects of PVR(CD155) in viral and tumour pathogenesis
Darija Kveštak	Histology and Embryology	Helmholtz Association - VISTRIE; NIH - Congenital CMV and CNS infection mechanisms of protective immunity
Ana Lesac Brizić Antonija Miletić	Centre for Proteomics	European Commission ERC - StAdvInn European Commission FP7 - CAPRI2010; NIH - MCMV Infection of the developing CNS: Neuroinvasion and immune control; Helmholtz Association - VISTRIE
		Croatian Science Foundation- Activation receptors of virus-specific NK-cells and their
Jelena Železnjak	Histology and Embryology	avoidance by virus
Marko Šestan	Histology and Embryology	

3.4. When selecting the candidates and determining their number, the HEI makes sure that each candidate enrolled has a study counsellor (potential mentor). Upon their enrolment, it continues to monitor whether the candidates have a sustainable plan of research and complete their doctoral thesis.

Upon announcement of the competition, the Commission for Postgraduate Studies and Continuing Education appoints The Commission for Applicant Scoring, which calculates the applicants' score according to the submitted documents. The Commission comprises the Vice Dean for Scientific Research, the Vice Dean for Postgraduate Studies and Continuing Education, the coordinator of the Doctoral Program, the chairman of the Commission for Scientific Research and the chairman of the Commission for Postgraduate Studies and Continuing Education. After the formation of the rank list and selection of candidates according to the approved quota, each doctoral candidate is appointed a temporary mentor (study advisor). The potential mentor's statement of agreement/recommendation for scientific research is a mandatory part of the documentation submitted in the competition process. If the candidate opts for another research during their study, registration of the new doctoral thesis topic is contingent on prior agreement of the new mentor who will lead the doctoral student through the work on and defence of the doctoral thesis. Therefore, each doctoral student has a mentor for the whole duration of the study, until the defence of their doctoral thesis or expiration of the study.



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3.5. The HEI ensures recruiting of interested, talented and highly motivated doctoral students from the country and abroad.

The Faculty of Medicine in Rijeka provides timely information of potential applicants about the application for the doctoral study. During an academic year, contacts of interested candidates are collected and they are timely notified via e-mail about the announcement of the competition for admission to doctoral studies. The competition is published in the press (Novi List) and on the website of the Faculty of Medicine in Rijeka. The Faculty encourages enrolment of the best students of undergraduate and graduate students with research preferences. For example, the best students of the Faculty of Medicine in Rijeka with holding the Dean's Award are exempted from paying the tuition for the doctoral study. At present, the competition is not announced at the international level, but despite that there are interested participants from the neighbouring countries: Bosnia and Herzegovina, Kosovo, Slovenia, etc.

3.6. The selection procedure of doctoral candidates is transparent and aimed at the selection of the best ones.

Enrolment of the best candidates is enabled through scoring according to predefined criteria and available to candidates. Most points are earned from the grades achieved in previous education, and from the mentor's recommendation, published works, awards, active participation in conferences and stay outside the institution. After the formation of the rank list, priority in enrolment is given to the better-ranked candidates. Interviews with candidates are not mandatory in the current enrolment procedure, but we plan to introduce them in the reformed study.

The criteria and procedures for the selection of candidates are the following:

1. Average grade in undergraduate study:

Each 0.1 above the average grade higher than 3.4 earns 2 points (maximum 30):

Average	No. of
grade	points
3.4	0
3.5	2
3.6	4
3.7	6
3.8	8
3.9	10
4.0	12
4.1	14
4.2	16
4.3	18
4.4	20
4.5	22
4.6	24
4.7	26
4.8	28
4.9	30
5.0	30

2. Recommendation:

Recommendation announcing that the candidate will be included in scientific research - 5 points The candidate has been involved in student scientific research - 5 points The candidate is a specialist or a resident - 5 points

3. CC-indexed papers:
- First author – 10 points
- Co-author – 7 points
- Third or further-line co-author – 5 points

4. Papers not indexed in CC:

- First author – 5 points



Co-author – 4 points
Third or further-line co-author – 3 points

5. Popularisation papers: - 2 points

6. Conference reports at national and international conferences:

- Oral presentation – 2 points

- Poster presentation – 1 point

7. Awards and grants:

- Rector's award – 5 points

- Dean's award – 3 points

- Grants (Top Grant, University Foundation, City, etc.) – 3 points

8. Courses, scientific schools

- International scientific schools and courses - 3 points

- National scientific schools and courses – 2 points

9. Stay at a foreign scientific institution longer than 1 month - 3 points

3.7. The HEI ensures transparency of both the selection procedure of candidates in accordance with the published criteria and the objection procedure.

The Faculty of Medicine in Rijeka ensures transparency of the selection procedure of candidates in line with the scoring criteria for admission defined in the study programme and published in full on the website of the Faculty of Medicine in Rijeka

(http://www.MedRi.uniri.hr/files/STUDIJI/Poslijediplomski_studiji/BIOMEDICINA/2016_Knjiga_Biomedicina.pdf).

After reviewing the documentation of applicants, the appointed Commission forms a ranking list, the list of selected applicants is public and published on the Faculty's website. The competition documentation is duly filed in the Office of Postgraduate Studies. The deadline for filing complaints and responding to them is given. Rejected candidates are entitled to have an insight in the weakness and strengths found in their respective application, and are given recommendations for improving their future research plans as appropriate.

3.8. There is a possibility of recognition of past achievements of doctoral students and candidates for the study.

Recognition of previous achievements relevant to the doctoral program are elaborated and regulated by a number of decisions of the Faculty Council and the Commission for Postgraduate Studies and Continuing Education (Appendix 18).

Based on their prior achievements, the applicants who enrol in the doctoral study of Biomedicine are entitled to **end the study without attending the study program.** The provisions of the Regulations on Studies of the University of Rijeka stipulate that the following shall be recognised for these candidates: i) publication of at least three first-author original *in extenso* scientific papers in the last five years indexed to WoS Core Collection; they must be published in journals ranked among the top 25% of journals in the field of research (Q1 according to JCR); the papers that are not accepted include case reports and *in extenso* abstracts; ii) stay of at least one semester in a domestic or foreign university or scientific institution, and active participation in at least two international meetings, of which at least one with an oral presentation.

Doctoral students can earn points from scientific achievements made before or during the doctoral study within compulsory or elective activities as part of the doctoral program. For scientific papers published in SCIE/JCR-cited journals, the first author and the corresponding author are scored with 15 ECTS, and the co-author with 7.5 ECTS. Participation at an international congress (conference report) with oral presentation earns 5 ECTS, poster presentation as the first author 2 ECTS and as a co-author 0.5 ECTS. Participation at a national congress (conference report) with oral presentation earn 2 ECTS, and poster presentation as the first author 1 ECTS and as a co-author 0.25 ECTS. Participation in national or international seminars, courses, round tables, conferences, summer schools, etc. is assigned from 0.2 to 2 ECTS depending on the complexity and duration of the event, which is determined by the Commission for Postgraduate Studies and Continuing Education.

Students who transfer to the doctoral studies of the Faculty of Medicine in Rijeka from equivalent studies of



other faculties have their previous achievements recognised, namely, the completed compulsory and elective courses and the respective exams passed, scientific papers published in CC- or SCIE- indexed journals, participation in domestic or international scientific meetings (conferences, courses, scientific schools and the like.), the research work carried out in another institution outside of the Faculty of Medicine in Rijeka, and mentor reports from the original institution. ECTS evaluation of research activities is carried out according to the criteria of the program of doctoral studies (cf. previous paragraph).

Doctoral students in Biomedicine have the **previously completed Masters study program recognized**, namely, the completed mandatory courses and the respective exams passed of the completed postgraduate scientific (Master) study including provided that their scope and content correspond to the relevant courses in the doctoral study, while the compulsory courses that do not satisfy this condition and all elective courses taken and passed are recognised as elective courses in the doctoral study. This evaluation, scoring and recognition of courses is conducted by the Commission for Postgraduate Studies and Continuing Education with appropriate agreement of the coordinator of the course being recognized.

Doctoral students have **also the program content previously realized in postgraduate specialist studies recognized**. A maximum of 10 ECTS points is recognised for elective courses in completed postgraduate specialist studies, so students who have completed more than one postgraduate specialist study cannot earn more than 10 ECTS points for these.

The University of Rijeka Faculty of Medicine recognized previously completed programmes in the postgraduate (Master) study of Biomedicine, thus enabling enrolment in only one, distinctive (third) year of study. This option was offered to students who have earned a Master of Science Degree from the scientific areas of Biomedicine and Health, Natural Sciences and Biotechnologial Sciences and had published at least one paper in a CC-indexed journal, as well as to students who had enrolled in the postgraduate (Master) study of Medicine at the Faculty of medicine University of Rijeka but have not completed it with a master thesis provided they had passed all exams of the master study and had published two papers in a CC-indexed journal, one of which is an original scientific paper.

Finally, doctoral students have their **scientific papers that are not quoted in journals listed in the SCI/JCR databases** recognized as electoral activities according to the following criteria: first-author paper is scored with 4 ECTS and a co-author one with 2 ECTS credits.

3.9. The rights and obligations of doctoral students are regulated by the HEI's relevant regulations and the Study Agreement, which ensures a high level of institutional and mentoring support to doctoral students.

The quality of the doctoral program is ensured by continuous monitoring of the standard of acquisition of skills, the quality and performance of the teaching process and the study outcomes, all under the supervision of the Quality Assurance and Improvement Committee of the Faculty of Medicine in Rijeka. All exams are written, and only if necessary also oral. Students' performance is monitored through analysis of mentors' reports and determining the conditions of entry in the following year. The novelty that we intend to introduce are institutional mechanisms and the annual report by Vice-Dean for Postgraduate Studies and Continuing Education, which will contain important elements of self-evaluation, such as the number of all students enrolled vs. the number of students enrolled in the following year, the most successful students/mentors, average grades by course, students' evaluation of lectures (topicality, structure, workload and work invested, the adequacy of tests, etc.).

The role of the module coordinator (a group of akin courses delivered jointly) is to foster the quality of teaching and examinations, as well as develop and modernise the teaching methodology of each module. Coordinators also have the task to develop joint knowledge assessment and acquisition of skills in a particular module. On admission to the study, doctoral students are informed about all their rights and obligations.

When enrolling in the study program of Biomedicine, doctoral students receive a booklet in which details of all their all obligations are given. Each student has the right to independently create their own program of study (their individual study path) by selecting a mentor, and thus also their research area, the appropriate elective courses and elective activities. All information regarding the study can be found on the website of the Faculty of Medicine in Rijeka (http: //www.MedRi .uniri.hr/hr/). The Office of Postgraduate Studies is available to graduate students for resolving any specific issues or problems that may occur during the study, and informs the doctoral students about all details regarding their study and the schedule of compulsory and elective courses and elective activities by e-mail. The Faculty of Medicine in Rijeka has its Study Agreement, which is concludes with every student of postgraduate university studies.

3.10. Institutional support for a successful progression of doctoral students through the doctoral study is ensured.

The Faculty of Medicine in Rijeka does not yet have elaborated rules regulating institutional support, and neither is it specifically stated in the program of doctoral studies. However, institutional support is provided through a number of informal forms of assistance for the doctoral candidates' research and advancement, for instance by participating in



or covering the whole cost of the study for the Faculty's employees, or subsidising the maintenance of the facilities for small animals. The Faculty of Medicine also awards prize money annually to the best young researchers. We are currently establishing a fund for institutional support to researchers, planned to be in function no later than in 2017, as provided for in the Strategy for Development of Science (Appendix 3). In the last five years, institutional support has been given to the publication of 24 doctoral students' papers (research projects, support for the University of Rijeka), and to six doctoral students for their participation in international conferences. (Appendix 19)

4. PROGRAMME AND OUTCOMES OF THE DOCTORAL STUDY

4.1. The content and quality of the doctoral programme is in accordance with internationally accepted standards.

In recent decades, the area of biomedical sciences has been characterized by extraordinary progress owing to the large number of important discoveries made, especially in the study of the human genome, and the clarification of many diseases and disorders at the molecular level. It is realistic to expect that such significant achievements will result in rapid development of biomedical sciences and medicine in general in the foreseeable future. Therefore, it is necessary already now to educate scientists who will be qualified for adopting new technologies and scientific knowledge from various scientific sources, as well as for independent creation of new knowledge.

The postgraduate doctoral study of Biomedicine was initiated in the academic year 2005-2006. The primary purpose of the study is to provide quality scientific education to university researchers in order for them to be able to set up and solve research tasks, write a research project, organise the work of a research group, manage scientific projects and present scientific work. The doctoral study is designed as a source of high-quality and modern university teachers who will be prepared to meet the needs of ever-higher standards of education. In addition, this study aims to educate scientists who will work in biotechnological institutes, modern pharmaceutical companies and pharmaceutical laboratories in the public and private sectors. Upon graduation, they should be able to independently conduct research projects and create cores of research groups. Given that the study is intended also for medical doctors working in clinical hospitals, in addition to the full-time (6 semesters) study program, we offer also a parttime one (10 semesters), which enables physicians working in clinics to complete concurrently this doctoral study and their respective programs of specialist training. This additional education and professional training of physicians should allow them to better understand and more effectively implement new technologies and scientific knowledge with the expected increase in the quality and level of services intended for patients. After graduating, physicians are offered the possibility to further advance in the research- teaching positions and organise and lead research groups at clinics.

In addition to graduates in the field of Biomedicine and Health (all fields and branches), the doctoral study is intended also for students of natural sciences (biologists, biochemists, chemists) and some students of social sciences (psychologists, special educators, bioethicists). The study is interdisciplinary by its contents, program and selected teachers, equivalent and analogous to the corresponding studies in most Western European countries. In comparison to programmes of foreign HEIs, our doctoral program has a higher share of theoretical classes in relation to the experimental work. The enrolment quota of doctoral study is 30 students. Part-time students are mostly employed in clinics and have the obligation of specialization. Due to their simultaneous attendance of both programs, and the obligation to work also on the project of specialization, part-time students have lower class obligations (36 ECTS per year) in the doctoral study in Biomedicine, which enables them to complete both their specialization and write the thesis over a longer period (5-6 years). This problem is also present in other EU countries and several countries are trying to find similar solutions. Full-time students are mainly young researchers on pre-clinical projects that can sustain the workload of 60 ECTS per year.

We compared our programme with the interdisciplinary doctoral program in Biomedicine offered by the University of Ljubljana for five faculties (Biotechnology, Pharmacology, Chemistry and Chemical Technology, Medicine, and Veterinary Medicine) and three research institutions (Jozef Stefan Institute, National Institute of Chemistry and the National Institute of Biology), lasting three years (180 ECTS). As mentioned above, in addition to the three-year study, our Faculty offers the opportunity to study five years with the same number of credits (180 ECTS). Ljubljana program consists of 60 ECTS in classes, which corresponds to our program where we have 30 ECTS for compulsory and 30 ECTS for elective courses. The remaining 120 ECTS can be obtained from individual research work related to the thesis topic. Our students gain the remaining credit from the defence of their doctoral thesis topic (10 ECTS), research in foreign institutions (30 ECTS), compulsory publication of papers (15 ECTS), defence of their doctoral thesis (30 ECTS) and from their mentors' reports, 2 or 4 ECTS respectively for 3- and 5-year study (30 ECTS). Our doctoral study program corresponds to Ljubljana's in the segment of students ranking, namely, they have a similar score calculation for previously acquired knowledge and skills, and sign a contract with the students. We both have



Given that the area of Biomedicine and Health covers numerous fields and branches with frequent collaborative research within the field, relatively little interdisciplinary research is carried out with other areas. Two examples of this are studies combining biomedicine and health with the humanities (anthropology), and biomedicine and health with the social sciences (psychology).

4.2. The learning outcomes listed at the level of the study programme and its segments are in accordance with level 8.2. of the Croatian Qualifications Framework (CROQF). They clearly describe the competencies that doctoral students will develop during the doctoral study and the ethical requirements of scientific research/artistic work.

The learning outcomes of the doctoral study in Biomedicine are in accordance with level 8.2. of the CROQF

Knowledge and understanding:

- creation and evaluation of a wide range of knowledge and understanding of the research areas and advanced and specialized knowledge in a particular area

- evaluation of methods and principles of research methodology

Competencies and skills:

- implementation of independent and critical analysis and synthesis, and the skills of reviewing and searching for new and complex phenomena, problems and situations

- creating the ability of setting and differentiating between problems with a critical, creative and independent approach, and planning, using and evaluating appropriate methods in research and other tasks with clearly defines deadlines

-creating contribution in the research area of the thesis

Autonomy:

- presentation of and discussion on research results at national and international conferences in academic and other environment and the ability to write scientific papers
- expression of interest for further insights, knowledge and research

Responsibility:

- assuming ethical and social responsibility for contribution to social development and successful training of others through research

- assuming intellectual autonomy and attitude and ability of ethical considerations in research
- assuming ethical and social responsibility through self-analysis and critical thinking in research, the role in society and the responsibility for using research results.

The learning outcomes are incorporated into the study program as a whole, but have not been elaborated within each course, which we recognised to be a shortcoming that should be corrected with the planned reform of the doctoral study.

4.3. The learning outcomes of the doctoral program are logically and clearly related to the learning outcomes of individual course contents, and the mentoring and research work.

The learning outcomes of most courses of the doctoral study are logically and clearly linked to the learning outcomes of the whole study, which result from the learning outcomes of individual course contents, mentoring and research.

4.4. The program of the doctoral study leads to learning outcomes and competence in accordance with level 8.2. of the CROQF.

In order to enable assessment of the quality and level of learning outcomes achieved, we enclose bound copies of the thesis defended and abstracts in English by the academic year of graduation for the 2011-2015 period (in the alphabetical order, influential works arising from doctoral research, a selection of published scientific papers on topics of defended doctoral theses (Appendix 20), samples of seminar papers and samples of presentations at conferences (Appendix 21).

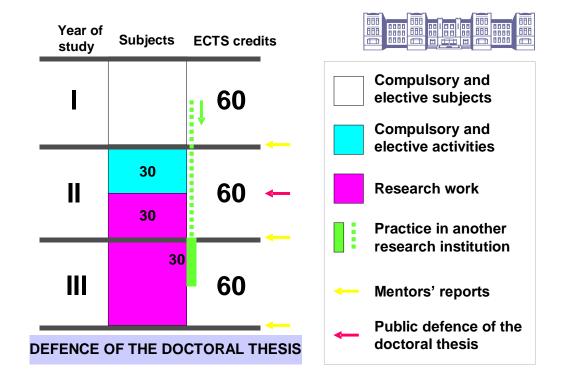
4.5. The teaching methods (and the distribution of ECTS, if defined) in the various activities of doctoral students are appropriate to level 8.2. of the CROQF and ensure the achievement of clearly defined learning outcomes.

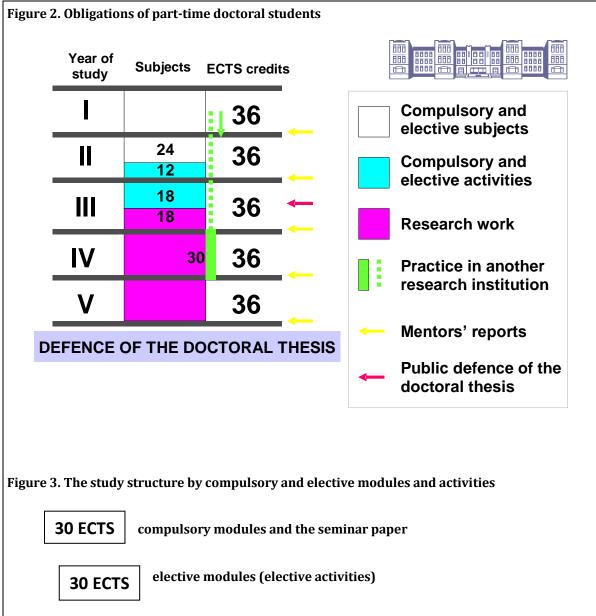
The doctoral study is organized as a three-year study (Figure 1) for doctoral students who work on their research full time (e.g., research assistants) or a five-year one (Figure 2) for doctoral students who participate in their research part time (e.g., doctoral students who work in clinics). This organization is in line with the recommendations of ORPHEUS, intending to take into account the professional workload of doctoral students who work at clinics and to

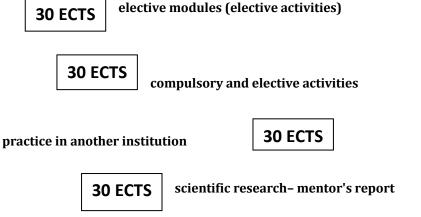


grant them more time to carry out research and write their doctoral thesis. The total workload of students per year is 60 ECTS for full-time doctoral students and 36 ECTS for part-time ones, which amounts to 180 ECTS for the whole study programme for all doctoral students. The study consists of theoretical classes, compulsory and optional activities and work on the doctoral thesis. The theoretical part is divided into compulsory and elective classes. It is organized in the form of modules, organizational links which include related courses (usually 3-5 courses) and make a logical whole. The study program offers three mandatory and 13 optional modules, and comprises a total of 53 courses. In the first semester, the students take compulsory modules, within which the mandatory seminar paper (total 30 ECTS). Only this semester is firmly set in the implementation curriculum, while all other study activities for the acquisition of ECTS are flexible and chosen in cooperation with the mentor (Figure 3). Thus, the doctoral student is required to choose elective modules worth 30 ECTS, do the mandatory and optional activities worth 30 ECTS and work on writing the thesis worth 90 ECTS (30 ECTS for compulsory stay in laboratories of other institutions + 30 ECTS for laboratory work in the home institution + 30 credits for writing and defending the thesis).

Figure 1. Obligations of full-time doctoral students







writing and defence of the doctoral thesis topic

final mentor's report public defence of the doctoral thesis

30 ECTS



The compulsory courses of the study program enable students to acquire the theoretical basis for the initiation of scientific research. Students adopt scientific methods through work in the institution's laboratory and in courses delivered as seminars or exercises. Moreover, the elective courses comprise modules which largely present experimental and laboratory methods. The percentage of hours of experimental, laboratory and seminar teaching methods is 78%. in agreement with their mentors, the candidates form their own individual curriculum in accordance with the objectives of the doctoral research. Classes are organized for a group of students who enrolled in a particular course, but in the event when the course is chosen by one or just a few students, individual approach in possible, namely, the course coordinator and the candidate can agree on substitute forms (e.g. seminar papers, presentations, etc.), which is in accordance with the University's Regulations on Studies. Pursuant to the program of the doctoral study (and the Regulations on Studies of the University of Rijeka), students are required to spend at least three months at another institution, for which they receive 30 ECTS. There are several groups active at the Faculty that can compete with groups in more developed western university by their level of work and publications. International cooperation of the Faculty of Medicine is relatively well developed (Horizon 2020, NIH, Marie Curie). Most scientific research groups have a well-developed cooperation with groups in various European, American and other universities through bilateral or multilateral international projects that enable the mobility of doctoral students and their stay in partners' laboratories. In addition to the formal cooperation, training and stay of doctoral students in foreign institutions is provided through a series of informal individual cooperations.

As part of the elective extracurricular scientific activities in which students acquire the minimum required 5 ECTS points, workshops, courses, round tables, seminars and the like are organised, about which the students are informed in due time through:

http://www.MedRi.uniri.hr/files/STUDIJI/Poslijediplomski_studiji/BIOMEDICINA/Aktivnosti_koje_se_boduju_na_do ktorskim_studijima21072016.pdf.

Students have a choice of workshops or trainings relevant for their own doctoral research, since methodological workshops are organized on a monthly basis.

4.6. The program provides for the acquisition of generic (transferable) skills.

Doctoral students have the opportunity to acquire generic skills by attending workshops for development of business and management skills, writing and managing projects, seeking funding, etc. which are regularly organized by the Faculty of Medicine and the University of Rijeka. The list of workshops organized at the Faculty of Medicine and the University to date and is given in Appendix 22 and via the following link: <u>http://www.MedRi.uniri.hr/files//STUDIJI/Poslijediplomski studiji/BIOMEDICINA/Radionice i projekti za razvoj poslovnih i upravlja ckih vjestina.pdf</u>.

Doctoral students are regularly informed about the workshops, courses, symposia, etc. through the Faculty's and the University of Rijeka's websites or by e-mail.

We have divided the learning competencies acquired by doctoral students in the doctoral program in Biomedicine into two groups: generic (general) and research competencies.

General competencies that should be acquired in this type of research-based education are:

a) the ability to cope with the unknown

b) synthesis of knowledge

c) ability to innovate in achieving solutions

d) solving complex problems

e) development of strategies

f) ability to establish cooperation - create networks

g) communicative competence

h) time management

i) ability to cope with failure

j) academic competence referring to the rights and responsibilities in the field of ethics of scientific research and academic communication

The research and presentation skills acquired by students include the skills and knowledge of:

a) preparing research strategies, and technical and manual research skills

b) issues related to the research (e.g. the technical possibilities of research, the skills important in research in public health and epidemiology, etc.)

c) presentation of research work

d) rights and responsibilities

e) research management

f) work with a mentor



g) search and organisation of literature h) databanks - bibliography

i) preparation of proposals of scientific research

j) preparation of theses

Therefore, upon completion of their doctoral studies, doctors of science will be able to plan, implement and present scientific research in the form of oral presentations and scientific publications, work on a research project, search and organize literature, formulate scientific issues and present them to other researchers through mentoring.

Owing to the acquired competences after graduation, they can be employed in research and teaching professions at university, or work in a research laboratory and in a postdoctoral position, which is especially recommended. Our former students who enrolled in our doctoral program, in addition to employees of the CHC Rijeka and research assistants at the Faculty, were employees of Jadran Galenski Laboratorij, Pliva and other manufacturers of drugs and medical equipment. We hope that this will continue in the future, hopefully in a greater extent.

4.7. The teaching content is a function of current and future research and doctoral training (individual plan of attending classes, generic skills, etc.).

The program delivered in the form of classes is flexible and tailored to individual academic needs and research plans of a doctoral student.

We enclose detailed individual work plans of doctoral students (Appendix 23).

4.8. The program ensures quality international connections and mobility of teachers and doctoral students.

Doctoral students, mentors and teachers of the doctoral study involved in international projects are required to internationalise their research and spend a certain period of time in a foreign research centre. The Faculty systematically provides information on the possibilities of doctoral students mobility.

Researchers of the Faculty of Medicine, and especially its management and the competent authorities, are well acquainted with the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers of 2005. In accordance with these documents, the Faculty of Medicine enables its employees the freedom of scientific

research, in line with high ethical principles (regulated by university codes, as well as the acts of a higher order). In addition, it stimulates the professional responsibility and professionalism and respect of contractual and legal obligations associated with scientific research. The investigations follow good practice and appropriate protective measures, and researchers are regularly engaged (on the Days of the Faculty, and sometimes more often) in public life through popular lectures and other activities in which they present their results to the general public. In its capacity as the employer, the Faculty of Medicine ensures recognition of the profession of researcher and their non-discrimination, seeking to continuously improve the research environment and working conditions, valuing mobility, and protecting intellectual property rights. The procedure of employment of researchers is public (public competition) and their selection transparent. All qualifications are recognized in accordance with the applicable state and university regulations.

A review of the doctoral study in Biomedicine was conducted in 2010 by an international commission, which we enclose in Appendix 24, but its findings have not been implemented systematically. We have accepted and discussed all reviewers' comments, and tried to implement them in the new proposal of the doctoral school (see Appendix 6), but in 2015 we only refreshed and updated the content with minor changes suggested in the review.

The mandatory part of the study activities at doctoral study comprises the obligation for the student to acquire 30 ECTS credits by a three-month residence in another research institution (laboratory). This can be substituted by performing appropriate study activities which encourage internationalization of research, namely, cooperation with foreign research groups. Therefore, international cooperation and stays in research centres outside the home institution is not only encouraged but also required. The possibility of such training of doctoral students is primarily the result of scientific research cooperation with foreign partners and international collaborative projects. This matter is regulated by decisions of the Faculty Council: Class: 003-06/14-02/21 1; Ref. no.: 2170-24-01-14-1, of 17 June 2014, and Class: 003-06/14-02/266; Ref. no.: 2170-24-01-14-1 of 29 July 2014.

The Faculty of Medicine in Rijeka, through its Office for Postgraduate Studies and Continuing Education, regularly informs all doctoral students by e-mail about the national and international conferences and other scientific meetings. The Commission for Postgraduate Studies and Continuing Education a priori credits some of the local meetings for which there is increasing interest with a number of ECTS credits, while international and some domestic conferences are evaluated on the basis of evidence of a student's attendance at them and presentation of their work in one form or another. The travel expenses of doctoral students are mainly covered from project funds of the Faculty



of Medicine in Rijeka.

The thesis may be substituted by publication of works in certain internationally respected publications.

The Instructions for Writing a Doctoral Thesis at the University in Rijeka, which are an integral part of the Regulations on Writing a Doctoral Thesis of the University of Rijeka, Class: 602-04 / 13-01 / 02, Ref. no. 2170-57-01-13-187 of 15 May 2013, stipulate that a doctoral thesis can be presented in the form of a set of scientific papers with an introductory part, a short elaboration of work, conclusions and references (the Scandinavian model). This type of work is possible only within research work carried out in doctoral studies, and scientific papers have to be published after admission to the doctoral study. The same Instructions also defines specific elements that the doctoral thesis according to the so-called Scandinavian model typically includes:

- the text on the cover is printed in bold (University of Rijeka, Study offered by, Author's first and last name, Title of the doctoral thesis, Doctoral thesis, Rijeka, Year); the text on the cover spine is printed in bold (Author's first and last name, Year and Title of the doctoral thesis; if the title is too long, the shortened version is written, not longer than 80 characters); the first sheet after the cover is empty; the first page of the second sheet has the same text as the one on the cover (the same content and language, including the mentor's signature); if the work is not written in English, the first page of the third sheet has the same text as the first page of the second sheet but this time in English; the first page of the fourth sheet gives information about the mentor/co- mentor (title, first and last name), data on the time and place of the thesis defence, and details of the members of the commission before which the doctoral thesis was defended (title, name); acknowledgements' (optional);
- thesis abstract written in the language of the thesis and in English;
- extended abstract in the Croatian language, only if the thesis is not written in Croatian;
- key words in the language of the thesis, and in Croatian and English;
- contents, introduction;
- elaboration of the doctoral thesis by the so-called Scandinavian model presents a critical review of the results of doctoral research in the context of existing scientific knowledge, but cannot be shorter than 30 pages;
- conclusions, literature;
- illustrations, i.e., list of tables, graphs, figures, photographs, drawings, diagrams, histograms, charts, ...;
- attachments published scientific papers that complement the research work. A minimum of four papers published in indexed journals is required, of which at least two published in journals listed in the Web of Science or ERIH databases, of which at least one in a journal with the impact factor greater than the median impact of international journals in the field of doctoral research. Each work can be presented by only one doctoral student. Exceptionally, the implementing institution may accept the work submitted by two doctoral students with special justification. Doctoral student must be the main author of at least three of the above-cited papers. The collected works must provide new scientific contribution in respect of individual works.

Doctoral students are actively involved in various forms of international scientific cooperation. The list specifies typical collaborating institutions and research groups:

- Max von Pettenkofer-Institute, München, Germany; Barbara Adle
- UAB, Birmingham, USA; William J. Britt
- Helmholtz Centre for Infection Research, Braunschweig, Germany; Melanie Brinkmann
- Heinrich Pette Institut, Hamburg, Germany; Wolfram Brune
- Technical University München, Germany; Dirk Busch
- Washington University Medical Centre, St. Louis, USA; Marco Colonna
- University of Toronto, Toronto, Canada; James R. Carlyle
- Helmholtz Centre for Infection Research, Braunschweig, Germany; Luka Čičin Šain
- CSIC-Universidad Autónoma de Madrid, Spain; Margarita Del Val
- University of Duisburg-Essen, Germany; Ulf Dittmer
- University of Würzburg, Germany; Lars Dölken
- The University of Edinburgh, UK; Peter Gazhal
- Albert-Ludwigs-University Freiburg, Germany; Anne Halenius
- The University of Edinburgh, UK; Jürgen Haas
- Albert-Ludwigs-University Freiburg, Germany;Hartmut Hengel
- +TWINCORE Hannover, Germany; Ulrich Kalinke
- Freie Universität Berlin, Germany; Benedikt Kaufer
- Max von Pettenkofer-Institute, München, Germany; Ulrich Koszinowski
- University of Kragujevac, Serbia; Miodrag Lukić
- The Hebrew University of Jerusalem, Izrael; Ofer Mandelboim
- Humanitas University, Italy; Alberto Mantovani
- Friedrich- Alexander- University Erlangen- Nürnberg, Germany; Manfred Marschall



- Hannover Medical School, Germany; Martin Messerle
- University of Veterinary Medicine Vienna, Austria; Mathias Müller
- ETH Zurich, Switzerland; Annette Oxenius
- University of Mainz, Germany; Matthias Reddehase
- Discovery Way Murdoch University, Western Australia; Alec Redwood
- University of Tübingen, Germany; Stefan Stevanović
- University of Veterinary Medicine Vienna, Austria; Birgit Strobl
- Ohio State University, Columbus, USA; Joanne Trgovcich
- University of Duisburg-Essen, Germany; Mirko Trilling
- McGill University, Montreal, Canada; Silvia Vidal
- Charité University Medicine Berlin, Germany; Sebastian Voigt
- Charité University Medicine Berlin, Germany; Lüder Wiebusch
- Washington University Medical Centre, St. Louis, USA; Wayne M. Yokoyama

International cooperation is one of the fundamental characteristics of the activity of the University of Rijeka Faculty of Medicine. It is conducted on teaching, professional and scientific levels, and the importance of cooperation is based on the Strategy of the University of Rijeka Faculty of Medicine. During their doctoral training, doctoral students are obligated to spend part of the study time in another research organization. In addition, it is important to emphasize that the University of Rijeka Faculty of Medicine has a multiyear experience of organising international professional and scientific workshops and summer schools, conferences, congresses and seminars, which has made it an important partner in the field of biomedical sciences in the region. The objective of international cooperation and mobility is to increase the number of outgoing and incoming students are gulated by the Regulations on Doctoral Studies. Doctoral students are encouraged by their mentors to participate in international exchange with institutions with which the Faculty has established cooperation. Examples of successful exchange are the following:

Branka Popović of the Department of Histology and Embryology of the Faculty of Medicine in Rijeka spent five months at the University of Freiburg, in Gemany, from 13/09 to 15/12/2013, and again from 06/04 to 05/06/2014.

Adriana Tomić of the Centre for Proteomics of the Faculty of Medicine in Rijek, spent a year at the Hannover Medical School in Hannover, Germany, from 02/12/2013 - 02/12/2014.

Lea Hiršl of the Centre for Proteomics of thei Faculty of Medicine in Rijeka spent a month at the Institute for Haematology, Hemostasis, Neurology and Stem Cell Transplantation of the Faculty of Medicine in Hannoveru, Germany, from 01/09 - 30/09/2015.



III. TABLES

Table 1: Teachers

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https://bib.irb.hr/l ista- radova?autor=278Biomedicine and Health / Public Health and Health Care(51)Informatics in Research (seminar)Informatics in Research (seminar)036Health CareInformatics in Research (seminar)300110Health CareInformatics in Research (seminar)30011111512Methods of Medical (seminar)611111512Methods of Medical (seminar)15011111511111151111111512Methods of Medical (seminar)15011111511111111112111111111111311111111111141151111111111511111111 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>Total teaching workload:</td><td>300</td></td<>						Total teaching workload:	300
ista- radova?autor=278 036Health / Public Health and Health CareHealth CareImage: Care Health and Health CareImage: Care Health Ca		Assist. Prof. PhD	5	32	5	Methods of Medical	6
radova?autor=278 036Health and Health CareImage: Free Phi DecensionHealth CareTeaching workload at 1st and 2nd level :300 and 2nd level :Lidija Bilić-Zulle https://bib.irb.hr/l ista-Assoc. Prof. PhD Biomedicine and Health / Public11115 (226)12Methods of Medical Informatics in Research (seminar)6Lidija Bilić-Zulle https://bib.irb.hr/l ista-Health and Health Care11115 (226)12Methods of Medical Informatics in Research (seminar)6Cordana Blagojević Zagorac https://bib.irb.hr/l Health / Basic Medical Sciences8118 (120)6Transport and Degradation of Proteins (lectures)150Medical Sciences148 (120)6Transport and Degradation of Proteins (lectures)6				(51)			
036Health CareImage: Additional symplectic							
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Ideal	<u>036</u>	Health Care					0
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radova?autor=242 236Health and Health CareImage: Care of the sector of t	https://bib.irb.hr/l	Biomedicine and	11		12	Informatics in Research	6
236Health CareImage: A state of the							450
Gordana Blagojević Assist. Prof. PhD 8 118 6 Transport and 150 Zagorac Biomedicine and (120) Degradation of Proteins 6 <u>https://bib.irb.hr/l</u> Health / Basic (120) Teaching workload at 1st 300						and 2nd level :	
Gordana Blagojević ZagoracAssist. Prof. PhD81186Transport and Degradation of Proteins (lectures)6 ista- Health / Basic(120)Health / Basic Teaching workload at 1st6						other HEI:	
ZagoracBiomedicine and Health / Basic(120)Degradation of Proteins (lectures)ista-Medical SciencesTeaching workload at 1st300							150
https://bib.irb.hr/lHealth / Basic(lectures)ista-Medical SciencesTeaching workload at 1st300			8		6		6
ista- Medical Sciences Teaching workload at 1st 300				(120)			
							200
	<u>ista-</u> radova?autor=259	Medical Sciences				Teaching workload at 1st and 2nd level :	300



<u>873</u>					Teaching workload at other HEI:	0
					Total teaching workload:	300
Dragica Bobinac <u>https://bib.irb.hr/l</u> ista-	Full Prof. PhD - tenured Biomedicine and	19	40 (364)	13	Bone Morphogenetic Proteins and Myogenic Regulatory Factors	12
radova?autor=827	Health / Basic				(lectures)	
<u>36</u>	Medical Sciences				Teaching workload at 1st and 2nd level :	262.44
					Teaching workload at other HEI:	37.56
					Total teaching workload:	300
Bojana Brajenović	Full Prof.	8	17	9	Cytogenetics (lectures)	12
– Milić <u>https://bib.irb.hr/l</u>	PhD - tenured Biomedicine and		(120)		Teaching workload at 1 st and 2 nd level :	300
<u>ista-</u> radova?autor=133	Health / Basic Medical Sciences				Teaching workload at other HEI:	0
<u>586</u>					Total teaching workload:	300
Dalibor Broznić <u>https://bib.irb.hr/l</u>	Assist. Prof. PhD Biomedicine and	7	23 (30)	4	Sampling and Sample Preparation (lectures)	6
<u>ista-</u> <u>radova?autor=270</u>	Health / Basic Medical Sciences				Sampling and Sample Preparation (seminars)	6
072					Separation Techniques I (lectures)	9
					Separation Techniques I (vježba)	6
					Teaching workload at 1st and 2nd level :	300
					Teaching workload at other HEI:	26
					Total teaching workload:	326
Gordana Brumini		10	47	12	Methods of Medical	6
<u>https://bib.irb.hr/l</u> <u>ista-</u>			(279)		Informatics in Research (seminar)	
<u>radova?autor=133</u> <u>621</u>	Public Health and Health Care				Teaching workload at 1st and 2nd level :	150
					Teaching workload at other HEI:	360
					Total teaching workload:	510
Marina Bubonja	Asoc. Prof. PhD	7	63	4	Biofilm (lectures)	4
Šonje <u>https://bib.irb.hr/l</u>	Biomedicine and Health / Clinical		(63)		Cellular Microbiology (seminar)	3
<u>ista-</u> <u>radova?autor=247</u>	Medical Sciences				Teaching workload at 1st and 2nd level :	150
<u>541</u>					Teaching workload at other HEI:	0
					Total teaching workload:	150
Alena Buretić –	Full Prof.	16	21	8	Genes and Male Fertility	6
Tomljanović	PhD Diama diaina and		(87)		(lectures)	
https://bib.irb.hr/l	Biomedicine and				Genetic Disorders of	6
<u>ista-</u> radova?autor=201	Health / Basic Medical Sciences				Human Fertility (lectures) Teaching workload at 1st	300
<u>593</u>	. Tourour bereneed				and 2nd level :	0
					Teaching workload at other HEI:	-
Želihe Content	Exell Dec-6	01	01	10	Total teaching workload:	300
Željka Crnčević – Orlić	Full Prof. PhD - tenured	21	81	13	Diabetes and Obesity as Predictors of the	6
https://bib.irb.hr/l	Biomedicine and		(335)		Metabolic Syndrome and	
<u>ista-</u>	Health / Clinical				Cardiovascular Diseases	
radova?autor=104	Medical Sciences				(lectures)	
<u>630</u>					Diabetes and Obesity as	3
					Predictors of the	



					Metabolic Syndrome and Cardiovascular Diseases	
					(seminar) Immunopathogenesis of Type I Diabetes Mellitus (seminar)	6
					Teaching workload at 1st and 2nd level :	75
					Teaching workload at other HEI:	0
					Total teaching workload:	75
Gordana Čanadi Jurešić <u>https://bib.irb.hr/l</u> <u>ista-</u>	Assist. Prof. PhD Biomedicine and Health / Basic Medical Sciences	6	14 (27)	4	Separation Techniques II – Electrostatic and Electrodynamic Separation (lectures)	18
radova?autor=226 411					Separation Techniques II – Electrostatic and Electrodynamic Separation (exercises)	6
					Teaching workload at 1st and 2nd level :	300
					Teaching workload at other HEI:	140
					Total teaching workload:	440
Andrea Dekanić https://bib.irb.hr/l ista-	PhD Biomedicine and Health / Clinical	5	15 (48)	4	Recent Methods in Skin Tumour Diagnosis (exercises)	2
radova?autor=336 525	Medical Sciences				Teaching workload at 1st and 2nd level :	150
					Teaching workload at other HEI:	0
					Total teaching workload:	150
Zlatko Dembić/ University of Oslo	Full Prof tenured	19	132 (609)	30	Cytokines and Disease (lecture)	27
https://bib.irb.hr/l ista-	associate position				Cytokines and Disease (seminar)	4.5
<u>radova?autor=816</u> <u>34</u>	Biomedicine and Health / Basic				Teaching workload at 1st and 2nd level :	31.5
	Medical Sciences				Teaching workload at other HEI:	0
					Total teaching workload:	31.5
Dijana Detel <u>https://bib.irb.hr/l</u>	Assist. Prof. PhD Biomedicine and	7	31 (42)	4	Free Radicals in Biology and Medicine (lectures)	12
<u>ista-</u> <u>radova?autor=247</u>	Health / Basic Medical Sciences				Disorders of Lipid and Lipoprotein Metabolism (lectures)	12
743					Teaching workload at 1st and 2nd level :	300
					Teaching workload at other HEI:	66.5
					Total teaching workload:	366.5
Štefica Dvornik https://bib.irb.hr/l	Assoc. Prof. PhD Biomedicine and	6	7 (65)	5	Clinical Pharmacology (lectures)	3
<u>ista-</u> radova?autor=176	Health / Clinical Medical Sciences		()		Clinical Pharmacology (seminar)	3
<u>834</u>					Teaching workload at 1st and 2nd level :	75
					Teaching workload at other HEI:	300
					Total teaching workload:	375
Gordana Đorđević https://bib.irb.hr/l	Assoc. Prof. PhD Biomedicine and	12	50 (137)	7	Breast Neoplasms (seminar)	4.5
<u>ista-</u>	Health / Clinical				Teaching workload at 1st	300



radova?autor=165	Medical Sciences			1	and 2nd level :	
<u>955</u>	Methed Sciences				Teaching workload at	0
<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>					other HEI:	Ū
					Total teaching workload:	300
Vesna Eraković	Full Prof	11	96	14	Personalized Medicine:	24
Haber	associate		(328)	11	Pharmacogenetics and	21
https://bib.irb.hr/l	position		(020)		Pharmacogenomics	
ista-	Biomedicine and				(lecture)	
radova?autor=215	Health / Basic				Personalized Medicine:	3
124	Medical Sciences				Pharmacogenetics and	U
					Pharmacogenomics	
					(seminar)	
					Teaching workload at 1st	27
					and 2nd level :	
					Teaching workload at	0
					other HEI:	
					Total teaching workload:	27
Ivana Gobin	Assist. Prof. PhD	3	0	4	Biofilm (lecture)	4
https://bib.irb.hr/l	Biomedicine and		(25)		Cellular Microbiology	1.5
<u>ista-</u>	Health / Basic				(seminar)	
radova?autor=247	Medical Sciences				Teaching workload at 1st	300
<u>495</u>					and 2nd level :	
					Teaching workload at	215.5
					other HEI:	
					Total teaching workload:	515.5
Nada Gosić	Full Prof.	2	1	1	Bioethics in Scientific	30
https://bib.irb.hr/l	PhD		(3)		Research (lectures)	
ista-	Social Sciences /				Teaching workload at 1st	150
radova?autor=207	Philosophy				and 2nd level :	
<u>046</u>					Teaching workload at	6
					other HEI:	150
U C I		-	0	2	Total teaching workload:	156
Harry Grbas	Assoc. Prof. PhD	5	9	3	Role of NKT Cells in	3
https://bib.irb.hr/l ista-	Biomedicine and Health / Clinical		(11)		Tumour Immunology,	
radova?autor=220	Medical Sciences				Autoimmune Diseases and	
<u>886</u>	Medical Sciences				Regeneration (seminar)	
					Teaching workload at 1st	150
					and 2nd level :	0
					Teaching workload at	0
					other HEI:	150
Renata Gržić	Full Prof.	9	15	6	Total teaching workload: Impact of Function on TMJ	150
https://bib.irb.hr/l	PhD	7	(66)	U	Development and	13
ista-	Biomedicine and		(00)		Remodelling (seminar)	
radova?autor=210	Health / Dental				Teaching workload at 1st	150
<u>920</u>	Medicine				and 2nd level :	100
					Teaching workload at	0
					other HEI:	v
					Total teaching workload:	150
Gordan Gulan	Full Prof.	26	31	8	Molecular Pathogenesis of	6
https://bib.irb.hr/l	PhD - tenured		(119)		Rheumatoid Arthritis	
ista-	Biomedicine and				(lectures)	
radova?autor=214	Health / Clinical				Teaching workload at 1st	150
<u>744</u>	Medical Sciences				and 2nd level:	
					Teaching workload at	0
					other HEI:	
					Total teaching workload:	150
Tamara Gulić	PhD	5	21	4	Immunology of	4
https://bib.irb.hr/l	Biomedicine and		(29)		Reproduction and	
ista-	Health / Basic				Perinatal Age (exercises)	
radova?autor=309	Medical Sciences				Teaching workload at 1st	300
<u>270</u>					and 2nd level :	
					Teaching workload at	0



					other HEI:	
					Total teaching workload:	300
Željko Jeričević	Full Prof.	0	0	7	Role of Steroid Hormones	12
https://bib.irb.hr/l	PhD		(38)		in the Regulation of Gene	
<u>ista-</u>	Biomedicine and				Expression in the Normal	
radova?autor=186	Health / Basic				Development and	
<u>23</u>	Medical Sciences				Carcinogenesis (lectures)	
					Teaching workload at 1st	150
					and 2nd level :	
					Teaching workload at	0
					other HEI:	170
		-	1.2		Total teaching workload:	150
Romana Jerković	Full Prof.	5	18	9	Molecular Pathogenesis of	6
https://bib.irb.hr/l	PhD - tenured		(122)		Selected Neurological	
<u>ista-</u>	Biomedicine and				Diseases (lectures)	1 5
<u>radova?autor=196</u> 103	Health / Basic Medical Sciences				Molecular Pathogenesis of	1,5
<u>103</u>	Medical Sciences				Selected Neurological Diseases(seminars)	
					Teaching workload at 1st	300
					and 2nd level :	500
					Teaching workload at	0
					other HEI:	U
					Total teaching workload:	300
Stipan Jonjić	Full Prof.	55	729	40	Cell Culture (seminar)	3
https://bib.irb.hr/l	PhD - tenured	55	(2046)	10	Mechanisms of Brain	3
ista-	Biomedicine and		()		Development (seminar)	0
radova?autor=959	Health / Basic				Molecular Mechanisms of	5
83	Medical Sciences				Lymphocyte Development	5
					and Homeostasis	
					(lectures)	
					Biology of Herpesvirus	6
					(lectures)	-
					Immunity to Viruses	5
					(lectures)	
					Teaching workload at 1st	300
					and 2nd level :	
					Teaching workload at	0
					other HEI:	
					Total teaching workload:	300
Vanda Juranić	Assist. Prof. PhD	8	185	7	Cell Culture (seminar)	1.5
Lisnić	Biomedicine and		(233)		Immunity to viruses	2
https://bib.irb.hr/l	Health / Basic Medical Sciences				(seminar)	2
<u>ista-</u> <u>radova?autor=296</u>	Medical Sciences				Biology of Herpesvirus	3
602					(seminar) Teaching workload at 1st	150
002					and 2nd level :	150
					Teaching workload at	0
					other HEI:	0
					Total teaching workload:	150
Miljenko Katunarić	PhD	5	6	3	Recent Methods in Skin	2
https://bib.irb.hr/l	Biomedicine and	5	(11)	5	Tumour Diagnosis	-
ista-	Health / Clinical		()		(exercises)	
radova?autor=313	Medical Sciences				Teaching workload at 1st	300
000					and 2nd level :	
					Teaching workload at	0
					other HEI:	
					Total teaching workload:	300
Daniela Kovačević	Assoc. Prof. PhD	18	21	4	Anthropometry,	3
Pavičić	Biomedicine and		(38)		Gnatometry, X-Ray	
https://bib.irb.hr/l	Health / Dental				Cephalometry	
<u>ista-</u>	Medicine				(seminar)	
radova?autor=238					Teaching workload at 1st	300
<u>710</u>			[and 2nd level :	



					Teaching workload at	3
					other HEI:	
					Total teaching workload:	303
Astrid Krmpotić	Full Prof.	14	253	23	Cell Culture (lectures)	6
https://bib.irb.hr/l	PhD Diama diaina and		(889)		Cell Culture (exercises)	6
<u>ista-</u> radova?autor=237	Biomedicine and a?autor=237 Health / Basic				Molecular Mechanisms of	4
<u>1300va?auto1=257</u> <u>334</u>	Medical Sciences				Lymphocyte Development and Homeostasis	
<u>554</u>	Medical Sciences				(lectures)	
					Biology of Herpesvirus	4
					(lectures)	4
					Immunity to viruses	7
					(lectures)	/
					Teaching workload at 1st	300
					and 2nd level :	
					Teaching workload at	0
					other HEI:	
					Total teaching workload:	300
Natalia Kučić	Full Prof.	6	46	7	Transport and	6
https://bib.irb.hr/l	PhD		(86)		Degradation of	
<u>ista-</u>	Biomedicine and				Proteins(seminar)	
radova?autor=239	Health / Basic				Immunological	6
<u>812</u>	Medical Sciences				Laboratory Methods	
					(lectures)	200
					Teaching workload at 1st and 2nd level :	300
					Teaching workload at	0
					other HEI:	Ũ
					Total teaching workload:	300
Vlatka Lajnert	Assist. Prof. PhD	22	49	4	Anthropometry,	3
https://bib.irb.hr/l	Biomedicine and		(52)		Gnatometry, X-Ray	
<u>ista-</u>	Health / Dental				Cephalometry	
radova?autor=279	Medicine				(seminar)	
<u>583</u>					Teaching workload at 1st	300
					and 2nd level :	0
					Teaching workload at other HEI:	0
					Total teaching workload:	300
Gordana Laškarin	Full Prof.	25	73	17	Immunology of	18
https://bib.irb.hr/l	PhD	25	(368)	17	Reproduction and	10
ista-	Biomedicine and		(000)		Perinatal Age (lectures)	
radova?autor=239	Health / Basic				Immunological	6
<u>823</u>	Medical Sciences				Laboratory Methods	
					(lectures)	
					Teaching workload at 1st	75
					and 2nd level :	
					Teaching workload at	0
					other HEI:	76
Tihana Lawa D. 17		10	100	11	Total teaching workload:	75
Tihana Lenac Roviš https://bib.irb.hr/l	Assoc. Prof. PhD Biomedicine and	13	133 (214)	11	Biology of Herpesvirus (lectures)	5
ista-	Health / Basic		(214)		Biology of Herpesvirus	3
radova?autor=270	Medical Sciences				(seminar)	5
<u>252</u>					Teaching workload at 1st	300
					and 2nd level :	
					Teaching workload at	0
					other HEI:	
					Total teaching workload:	300
Berislav Lisnić	Assist. Prof. PhD	6	48	5	Biology of Herpesvirus	4.5
https://bib.irb.hr/l	Biomedicine and		(53)		(seminar)	
<u>ista-</u> radova?autor=257	Health / Basic				Teaching workload at 1st	300
<u>radova?autor=257</u> 781	Medical Sciences				and 2nd level :	
<u>, 01</u>					Teaching workload at	0



					other HEI:	
					Total teaching workload:	300
Pero Lučin	Full Prof.	9	74	19	Transport and	6
<u>https://bib.irb.hr/l</u> ista-	PhD - tenured Biomedicine and		(501)		Degradation of Proteins (lectures)	
<u>radova?autor=142</u> 314	Health / Basic Medical Sciences				Teaching workload at 1st and 2nd level :	37.5
					Teaching workload at other HEI:	6
					Total teaching workload:	43.5
Viola Macolić Šarinić	Assist. Prof. PhD - associate	9	16 (36)	5	Management of Medicines (lectures)	12
https://bib.irb.hr/l ista-	position Biomedicine and		(30)		Teaching workload at 1st and 2nd level :	12
<u>radova?autor=188</u> <u>196</u>	Health / Basic Medical Sciences				Teaching workload at other HEI:	0
					Total teaching workload:	12
Hana Mahmutefendić <u>https://bib.irb.hr/l</u>	Assoc. Prof. PhD Biomedicine and Health / Basic	5	44 (81)	7	Transport and Degradation of Proteins (lectures)	6
<u>ista-</u> <u>radova?autor=247</u> <u>686</u>	Medical Sciences				Immunological Laboratory Methods (lectures)	6
					Teaching workload at 1st and 2nd level :	300
					Teaching workload at other HEI:	0
					Total teaching workload:	300
Ivana Marić	Full Prof.	8	45	10	Bone Morphogenetic	6
https://bib.irb.hr/l ista- radova?autor=212	Biomedicine and		(233)		Proteins and Myogenic Regulatory Factors (lectures)	
<u>345</u>	Medical Sciences				Teaching workload at 1st and 2nd level :	300
					Teaching workload at other HEI:	0
					Total teaching workload:	300
Jelena Marinić https://bib.irb.hr/l	Assist. Prof. PhD Biomedicine and	5	15 (19)	4	Free Radicals in Biology and Medicine (lectures)	12
<u>ista-</u> <u>radova?autor=270</u> 274	Health / Basic Medical Sciences				Disorders of Lipid and Lipoprotein Metabolism (lectures)	12
					Teaching workload at 1st and 2nd level :	300
					Teaching workload at other HEI:	170
					Total teaching workload:	470
Alemka Markotić <u>https://bib.irb.hr/l</u>	Full Prof. PhD - associate	37	169 (342)	14	Viral Haemorrhagic Fever (lectures)	30
<u>ista-</u> radova?autor=213	position Biomedicine and				Viral Haemorrhagic Fever (seminar)	4.5
111	Health / Basic Medical Sciences				Viral Haemorrhagic Fever (exercises)	2
					Teaching workload at 1st and 2nd level :	37.5
					Teaching workload at other HEI:	72
					Total teaching workload:	109.5
Damir Miletić https://bib.irb.hr/l	Full Prof. PhD - tenured	16	22 (126)	9	Molecular Pathogenesis of Selected Neurological	6
<u>ista-</u> radova?autor=212 604	Biomedicine and Health / Clinical				Diseases (lectures) Teaching workload at 1st	150
<u>604</u>	Medical Sciences				and 2nd level :	



					Teaching workload at	0
					other HEI:	150
Ines Mrakovčić –	Full Prof.	12	20	7	Total teaching workload: Role of NKT Cells in	9
Šutić	PhD	12	28	/		9
https://bib.irb.hr/l	Biomedicine and		(68)		Tumour Immunology, Autoimmune Diseases and	
ista-	Health / Basic				Regeneration (lectures)	
radova?autor=146	Medical Sciences					24
<u>280</u>	Medical Sciences				Immunopathogenesis of	Ζ4
280					Type I Diabetes Mellitus	
					(lectures)	9
					Immunotherapy of	9
					Malignant	
					Diseases(seminar)	262.44
					Teaching workload at 1st	262.44
					and 2nd level :	225
					Teaching workload at	325
					other HEI:	F07 44
Lacontra Mužiá	Eull Drof	6	12	7	Total teaching workload:	587.44
Jasenka Mršić – Pelčić	Full Prof. PhD - tenured	0	(49)	/	Molecular Pathogenesis of Selected Neurological	9
https://bib.irb.hr/l	Biomedicine and		(49)		Diseases (lectures)	
ista-	Health / Basic				Preclinical Testing of	12
radova?autor=142	Medical Sciences				8	12
<u>272</u>	Metilical Sciences				Drugs (lectures)	200
					Teaching workload at 1st	300
					and 2nd level :	0
					Teaching workload at	0
					other HEI:	200
D ' M L ''		2	2	-	Total teaching workload:	300
Damir Muhvić	Full Prof.	3	3	5	Molecular Mechanisms in	30
https://bib.irb.hr/l	PhD Biomedicine and		(32)		the Pathogenesis of Septic Shock	
<u>ista-</u> radova?autor=151	Health / Basic				(lectures)	
<u>520</u>	Medical Sciences				Teaching workload at 1st	300
<u>520</u>	Medical Sciences				and 2nd level :	300
					Teaching workload at	0
					other HEI:	0
					Total teaching workload:	300
Biserka Mulac-	Full Prof.	8	118	24	Role of Steroid Hormones	12
Jeričević	PhD	Ũ	(831)		in the Regulation of Gene	
https://bib.irb.hr/l	Biomedicine and		(001)		Expression in the Normal	
ista-	Health / Basic				Development and	
radova?autor=327	Medical Sciences				Carcinogenesis (lectures)	
05					Teaching workload at 1st	300
					and 2nd level :	
					Teaching workload at	0
					other HEI:	
					Total teaching workload:	300
Elvira Mustać	Full Prof.	15	43	10	Breast Neoplasms	18
https://bib.irb.hr/l	PhD - tenured		(145)		(lectures)	
<u>ista-</u>	Biomedicine and				Recent Methods in Skin	12
radova?autor=161	Health / Clinical				Tumour Diagnosis	
<u>903</u>	Medical Sciences				(lectures)	
					Teaching workload at 1st	300
					and 2nd level :	
					Teaching workload at	0
					other HEI:	
				~	Total teaching workload:	300
Amir Muzur	Full Prof.	18	7	8	Scientific Research	24
https://bib.irb.hr/l	PhD		(215)		Methodology (lectures)	
ista-	Biomedicine and				Scientific Research	6
radova?autor=259	Health / Basic				Methodology (seminar)	
			1	1	Teaching workload at 1st	150
<u>840</u>	Medical Sciences				and 2nd level :	100



				-		
					Teaching workload at other HEI:	86
					Total teaching workload:	236
Sergej Nadalin	PhD	8	15	5	Genes and Male Fertility	3
https://bib.irb.hr/l	Biomedicine and	0	(35)	5	(seminar)	5
ista-	Health / Basic		(33)		Genes and Male Fertility	2
radova?autor=296					-	2
<u>593</u>					(exercises)	000
<u>070</u>					Teaching workload at 1st	300
					and 2nd level :	
					Teaching workload at	0
					other HEI:	222
		45	140	_	Total teaching workload:	300
Srđan Novak	Assoc. Prof. PhD	15	140	7	Molecular Pathogenesis of	6
https://bib.irb.hr/l	Biomedicine and		(817)		Rheumatoid Arthritis	
<u>ista-</u>	Health / Clinical				(lectures)	000
radova?autor=243	Medical Sciences				Teaching workload at 1st	300
<u>140</u>					and 2nd level :	0
					Teaching workload at	0
					other HEI:	222
a X a + #/		4.2	42	4.0	Total teaching workload:	300
Saša Ostojić	Full Prof.	13	42	10	Genetic Disorders of	6
https://bib.irb.hr/l	PhD Diama diaina and		(183)		Human Fertility (lectures)	0
ista-	Biomedicine and				Genetic and Epigenetic	9
radova?autor=238	Health / Basic				Factors in the Etiology of	
<u>754</u>	Medical Sciences				Frequent Miscarriages	
					(lectures)	200
					Teaching workload at 1st	300
					and 2nd level :	0
					Teaching workload at	0
					other HEI:	000
Is successful a Desceli (/	Full Prof.	1 5	50	22	Total teaching workload:	300
Jasminka Pavelić / Ruđer Bošković		15	50	22	Gene Therapy:	30
Institute	PhD - tenured associate		(512)		Experimental and Clinical	
https://bib.irb.hr/l	position				Aspects (lectures)	7.5
ista-	Biomedicine and				Gene Therapy: Experimental and Clinical	7.5
<u>radova?autor=790</u>	Health / Basic					
<u>61</u>	Medical Sciences				Aspects(seminar) Teaching workload at 1st	37.5
01	Medical Sciences				and 2nd level :	37.5
					Teaching workload at	306
					other HEI:	300
					Total teaching workload:	343.5
Goran Pelčić	Assist. Prof. PhD	5	6	3	Preclinical Testing of	343.5
https://bib.irb.hr/l	Biomedicine and	5	(23)	3	Drugs (lectures)	5
<u>ista-</u>	Health / Clinical		(23)		Teaching workload at 1st	150
<u>radova?autor=237</u>	Medical Sciences				and 2nd level :	130
<u>922</u>	Medical Julences				Teaching workload at	0
<u></u>					other HEI:	U
					Total teaching workload:	150
Nina Pereza	PhD	13	42	5	Genetic and Epigenetic	4,5
https://bib.irb.hr/l	Biomedicine and	15	42 (54)	5	Factors in the Etiology of	т,Ј
<u>ista-</u>	Health / Basic		(37)		Frequent	
<u>radova?autor=322</u>	Medical Sciences				Miscarriages(seminar)	
<u>474</u>	-icultur Scicilices				Teaching workload at 1st	300
<u> </u>					and 2nd level :	500
					Teaching workload at	67
					other HEI:	07
					Total teaching workload:	367
Ester Pernjak Pugel	Assoc. Prof. PhD	13	118	10	Mechanisms of Brain	12
https://bib.irb.hr/l	Biomedicine and	13	(221)	10	Development	14
<u>ista-</u>	Health / Basic		(221)		(lectures)	
<u>radova?autor=133</u>	Medical Sciences				Mechanisms of Brain	3
	metulial Jule lites				Development	5
<u>643</u>						



					(cominon)	
					(seminar) Intrauterine Infection of	3
					the Central Nervous	U
					System (lectures)	
					Environmental Factors in	3
					the Development of	
					Congenital Malformations (lectures)	
					Environmental Factors in	6
					the Development of	0
					Congenital Malformations	
					(seminars)	
					Teaching workload at 1st and 2nd level :	300
					Teaching workload at	0
					other HEI:	Ū
					Total teaching workload:	300
Mladen Peršić	Full Prof.	12	12	7	Disorders of Carbohydrate	9
https://bib.irb.hr/l	PhD		(93)		Metabolism and Nutrition	
<u>ista-</u> radova?autor=161	Biomedicine and Health / Clinical				(lectures) Teaching workload at 1st	150
<u>1800va:autor=101</u> <u>894</u>	Medical Sciences				and 2nd level :	150
					Teaching workload at	0
					other HEI:	-
					Total teaching workload:	150
Borut Peterlin/	Full Prof.	45	178	23	From Genetic Diagnosis to	36
Klinični institut za medicinsku	PhD Biomedicine and		(1016)		Therapy in Neurology	
genetiku, Ljubljana	Health / Clinical				(lectures) From Genetic Diagnosis to	6
genetiku, bjubijana	Medical Sciences				Therapy in Neurology	0
					(seminar)	
					Teaching workload at 1st	42
					and 2nd level :	
					Teaching workload at other HEI:	0
					Total teaching workload:	42
Marija Petković	Full Prof.	14	49	7	Role of NKT Cells in	9
https://bib.irb.hr/l	PhD - tenured		(198)		Tumour Immunology,	
<u>ista-</u>	Biomedicine and				Autoimmune Diseases and	
radova?autor=133	Health / Clinical				Regeneration	
<u>654</u>	Medical Sciences				(lecture)	18
					Immunotherapy of Malignant Diseases	10
					(lectures)	
					Teaching workload at 1st	150
					and 2nd level :	10
					Teaching workload at other HEI:	42
					Total teaching workload:	192
Mladen Petrovečki	Full Prof.	13	41	16	Methods of Medical	192
https://bib.irb.hr/l	PhD - tenured	-	(303)		Informatics in Research	-
ista-	Biomedicine and		-		(lectures)	
radova?autor=155	Health / Public				Teaching workload at 1st	150
<u>583</u>	Health and Health Care				and 2nd level :	02
					Teaching workload at other HEI:	93
					Total teaching workload:	243
Sonja Pezelj –	Full Prof.	15	43	12	Oral Autoimune Diseases	18
Ribarić	PhD		(219)		(lectures)	
https://bib.irb.hr/l	Biomedicine and				Oral Autoimune Diseases	9
<u>ista-</u> radova?autor=233	Health / Dental Medicine				(seminar)	200
<u>radova?autor=233</u> 431	Medicille				Teaching workload at 1st and 2nd level :	300
<u></u>			1		מות בוות ובעבו .	



					Teaching workload at	0
					other HEI:	200
		-	10		Total teaching workload:	300
Kristina Pilipović	Assist. Prof. PhD	8	19	5	Molecular Pathogenesis of	6
https://bib.irb.hr/l	Biomedicine and		(41)		Selected Neurological	
<u>ista-</u>	Health / Basic				Diseases (lectures)	
radova?autor=270	Medical Sciences				Traumatic Brain Injury:	3
<u>305</u>					Mechanisms and	
					Treatment (seminar)	
					Teaching workload at 1st	300
					and 2nd level :	
					Teaching workload at	0
					other HEI:	
					Total teaching workload:	300
Bojan Polić	Full Prof.	17	300	21	Molecular Mechanisms of	9
https://bib.irb.hr/l	PhD - tenured	17	(765)	21	Lymphocyte Development)
<u>iittps.//bib.irb.ii/i</u> ista-	Biomedicine and		(703)		and Homeostasis	
<u>radova?autor=173</u>						
	Health / Basic Medical Sciences				(lectures)	2
<u>636</u>	Medical Sciences				Molecular Mechanisms of	3
					Lymphocyte Development	
					and Homeostasis	
					(seminar)	
					Immunity to viruses	2
					(seminar)	
					Teaching workload at 1st	300
					and 2nd level :	
					Teaching workload at	45
					other HEI:	
					Total teaching workload:	345
Igor Prpić	Full Prof.	14	31	7	Intrauterine Infection of	3
https://bib.irb.hr/l	PhD - tenured		(120)	-	the Central Nervous	-
ista-	Biomedicine and		(120)		System (lectures)	
radova?autor=195	Health / Clinical				Teaching workload at 1st	300
850	Medical Sciences				and 2nd level :	500
000	Fredrear belefices				Teaching workload at	0
					other HEI:	0
					Total teaching workload:	300
A., #.11., D., J., ¥.4	Full Dure 6	4	15	7		
Anđelka Radojčić	Full Prof.	4	15	/	Basics of Molecular	36
Badovinac	PhD - tenured		(32)		Biology (lectures)	
https://bib.irb.hr/l	Biomedicine and				Basics of Molecular	3
<u>ista-</u>	Health / Basic				Biology (seminars)	
<u>radova?autor=119</u>	Medical Sciences				Genetic Disorders of	6
<u>673</u>						
					Human Fertility (lectures)	
					Teaching workload at 1st	150
						150
					Teaching workload at 1st	150 285
					Teaching workload at 1st and 2nd level : Teaching workload at	
					Teaching workload at 1st and 2nd level : Teaching workload at other HEI:	285
lagoda Ravlić –	Full Prof.	5	2	7	Teaching workload at 1st and 2nd level : Teaching workload at other HEI: Total teaching workload:	
Jagoda Ravlić – Gulan	Full Prof. PhD - tenured	5	-	7	Teaching workload at 1st and 2nd level : Teaching workload at other HEI: Total teaching workload: Molecular Pathogenesis of	285 435
Gulan	PhD - tenured	5	2 (61)	7	Teaching workload at 1st and 2nd level : Teaching workload at other HEI: Total teaching workload: Molecular Pathogenesis of Rheumatoid Arthritis	285 435
Gulan https://bib.irb.hr/l	PhD - tenured Biomedicine and	5	-	7	Teaching workload at 1st and 2nd level : Teaching workload at other HEI: Total teaching workload: Molecular Pathogenesis of Rheumatoid Arthritis (lectures)	285 435 12
Gulan <u>https://bib.irb.hr/l</u> <u>ista-</u>	PhD - tenured Biomedicine and Health / Basic	5	-	7	Teaching workload at 1st and 2nd level : Teaching workload at other HEI: Total teaching workload: Molecular Pathogenesis of Rheumatoid Arthritis (lectures) Teaching workload at 1st	285 435
Gulan https://bib.irb.hr/l ista- radova?autor=194	PhD - tenured Biomedicine and	5	-	7	Teaching workload at 1st and 2nd level : Teaching workload at other HEI: Total teaching workload: Molecular Pathogenesis of Rheumatoid Arthritis (lectures) Teaching workload at 1st and 2nd level :	285 435 12 300
Gulan <u>https://bib.irb.hr/l</u> <u>ista-</u>	PhD - tenured Biomedicine and Health / Basic	5	-	7	Teaching workload at 1st and 2nd level : Teaching workload at other HEI: Total teaching workload: Molecular Pathogenesis of Rheumatoid Arthritis (lectures) Teaching workload at 1st and 2nd level : Teaching workload at	285 435 12
Gulan https://bib.irb.hr/l ista- radova?autor=194	PhD - tenured Biomedicine and Health / Basic	5	-	7	Teaching workload at 1st and 2nd level : Teaching workload at other HEI: Total teaching workload: Molecular Pathogenesis of Rheumatoid Arthritis (lectures) Teaching workload at 1st and 2nd level : Teaching workload at other HEI:	285 435 12 300 0
Gulan https://bib.irb.hr/l ista- radova?autor=194 632	PhD - tenured Biomedicine and Health / Basic Medical Sciences		(61)		Teaching workload at 1st and 2nd level :Teaching workload at other HEI:Total teaching workload:Molecular Pathogenesis of Rheumatoid Arthritis (lectures)Teaching workload at 1st and 2nd level :Teaching workload at 1st other HEI:Total teaching workload at other HEI:	285 435 12 300 0 300
Gulan https://bib.irb.hr/l ista- radova?autor=194 632 Smiljana Ristić	PhD - tenured Biomedicine and Health / Basic Medical Sciences Full Prof.	5	(61)	7	Teaching workload at 1st and 2nd level :Teaching workload at other HEI:Total teaching workload:Molecular Pathogenesis of Rheumatoid Arthritis (lectures)Teaching workload at 1st and 2nd level :Teaching workload at 1st other HEI:Total teaching workload at other HEI:Total teaching workload at other HEI:Total teaching workload:	285 435 12 300 0
Gulan https://bib.irb.hr/l ista- radova?autor=194 632	PhD - tenured Biomedicine and Health / Basic Medical Sciences Full Prof. PhD - tenured		(61)		Teaching workload at 1st and 2nd level :Teaching workload at other HEI:Total teaching workload:Molecular Pathogenesis of Rheumatoid Arthritis (lectures)Teaching workload at 1st and 2nd level :Teaching workload at 1st other HEI:Total teaching workload at other HEI:	285 435 12 300 0 300 6
Gulan https://bib.irb.hr/l ista- radova?autor=194 632 Smiljana Ristić https://bib.irb.hr/l ista-	PhD - tenured Biomedicine and Health / Basic Medical Sciences Full Prof. PhD - tenured Biomedicine and		(61)		Teaching workload at 1st and 2nd level :Teaching workload at other HEI:Total teaching workload:Molecular Pathogenesis of Rheumatoid Arthritis (lectures)Teaching workload at 1st and 2nd level :Teaching workload at 1st other HEI:Total teaching workload at other HEI:Total teaching workload at other HEI:Total teaching workload:	285 435 12 300 0 300
Gulan https://bib.irb.hr/l ista- radova?autor=194 632 Smiljana Ristić https://bib.irb.hr/l ista- radova?autor=142	PhD - tenured Biomedicine and Health / Basic Medical Sciences Full Prof. PhD - tenured Biomedicine and Health / Basic		(61)		Teaching workload at 1st and 2nd level : Teaching workload at other HEI: Total teaching workload: Molecular Pathogenesis of Rheumatoid Arthritis (lectures) Teaching workload at 1st and 2nd level : Teaching workload at other HEI: Total teaching workload: Basics of Molecular Biology (lectures)	285 435 12 300 0 300 6
Gulan https://bib.irb.hr/l ista- radova?autor=194 632 Smiljana Ristić https://bib.irb.hr/l ista-	PhD - tenured Biomedicine and Health / Basic Medical Sciences Full Prof. PhD - tenured Biomedicine and		(61)		Teaching workload at 1st and 2nd level : Teaching workload at other HEI: Total teaching workload: Molecular Pathogenesis of Rheumatoid Arthritis (lectures) Teaching workload at 1st and 2nd level : Teaching workload at other HEI: Total teaching workload: Basics of Molecular Biology (lectures) Human Genetic Diseases (lectures)	285 435 12 300 0 300 6
Gulan https://bib.irb.hr/l ista- radova?autor=194 632 Smiljana Ristić https://bib.irb.hr/l ista- radova?autor=142	PhD - tenured Biomedicine and Health / Basic Medical Sciences Full Prof. PhD - tenured Biomedicine and Health / Basic		(61)		Teaching workload at 1st and 2nd level : Teaching workload at other HEI: Total teaching workload: Molecular Pathogenesis of Rheumatoid Arthritis (lectures) Teaching workload at 1st and 2nd level : Teaching workload at other HEI: Total teaching workload: Basics of Molecular Biology (lectures) Human Genetic Diseases	285 435 12 300 0 300 6 6 6



					other HEI:	
					Total teaching workload:	380.5
Tea Schnurrer	Assoc. Prof. PhD	10	34	4	Molecular Pathogenesis of	6
Luke-Vrbanić	Biomedicine and		(54)		Rheumatoid Arthritis	
<u>https://bib.irb.hr/l</u>	Health / Clinical				(lectures)	
<u>ista-</u>	Medical Sciences				Teaching workload at 1st	150
<u>radova?autor=201</u>					and 2nd level :	
<u>571</u>					Teaching workload at	0
					other HEI:	
					Total teaching workload:	150
Neda Smiljan	Assoc. Prof. PhD	4	0	4	Intrauterine Infection of	1.5
Severinski	Biomedicine and		(29)		the Central Nervous	
https://bib.irb.hr/l	Health / Clinical Medical Sciences				System (seminar)	150
<u>ista-</u> radova?autor=196	Medical Sciences				Teaching workload at 1st and 2nd level :	150
<u>114</u>					Teaching workload at	168
111					other HEI:	100
					Total teaching workload:	318
Sonja Smole-	Full Prof.	/	/	/	Cellular Microbiology	6
Možina/	PhD	/	/	/	(lectures)	0
Biotecnological	1				Teaching workload at 1st	6
Faculty in Ljubljana					and 2nd level :	-
					Teaching workload at	0
					other HEI:	
					Total teaching workload:	6
Nada Starčević	Assist. Prof. PhD	9	23	8	Basics of Molecular	6
Čizmarević	Biomedicine and		(72)		Biology (lectures)	
https://bib.irb.hr/l	Health / Basic				Basics of Molecular	3
<u>ista-</u>	Medical Sciences				Biology (seminar)	
radova?autor=269					Human Genetic Diseases	6
<u>874</u>					(seminar)	
					Human Genetic Diseases	4
					(exercises)	
					Teaching workload at 1st	300
					and 2nd level :	0
					Teaching workload at other HEI:	0
					Total teaching workload:	300
Marina Šantić	Full Prof.	5	90	20	Cellular Microbiology	6
https://bib.irb.hr/l	PhD	5	(645)	20	(lectures)	0
ista-	Biomedicine and		(010)		Teaching workload at 1st	300
radova?autor=242	Health / Clinical				and 2nd level :	500
<u>464</u>	Medical Sciences				Teaching workload at	181
					other HEI:	
					Total teaching workload:	481
Jasenka Škrlin-	Assoc. Prof. PhD -	5	13	8	Biofilm (seminar)	4
Šubić	associate		(69)		Cellular Microbiology	1.5
https://bib.irb.hr/l	position				(seminar)	
<u>ista-</u>	Biomedicine and				Teaching workload at 1st	33
<u>radova?autor=182</u> 210	Health / Clinical Medical Sciences				and 2nd level :	
<u>410</u>	Method Sciences				Teaching workload at	6
					other HEI: Total teaching workload:	39
Stjepan Špalj	Assoc. Prof. PhD	30	86	7	Anthropometry,	24
<u>https://bib.irb.hr/l</u>	Biomedicine and	30	(111)		Gnatometry, X-Ray	24
ista-	Health / Dental		(111)		Cephalometry	
radova?autor=269	Medicine				(lecture)	
<u>751</u>	-				Teaching workload at 1st	150
					and 2nd level :	
					Teaching workload at	52.5
					other HEI:	
					Total teaching workload:	202.5
Davor Štimac	Full Prof.	64	478	19	Diabetes and Obesity as	6



			(01.1)			
https://bib.irb.hr/l	PhD - tenured		(814)		Predictors of the	
<u>ista-</u>	Biomedicine and				Metabolic Syndrome and	
radova?autor=195	Health / Clinical				Cardiovascular Diseases	
<u>543</u>	Medical Sciences				(lectures)	
					Clinical Pharmacology	6
					(lectures)	
					Teaching workload at 1st	300
					and 2nd level :	0
					Teaching workload at other HEI:	0
					Total teaching workload:	300
Brigita Tićac	Assoc. Prof. PhD	4	18	5	Biofilm (lectures)	4
https://bib.irb.hr/l	Biomedicine and		(45)		Biofilm (seminars)	6
<u>ista-</u> radova?autor=163	Health / Clinical Medical Sciences				Teaching workload at 1st	150
<u>253</u>	Medical Sciences				and 2nd level :	222 5
233					Teaching workload at other HEI:	223.5
					Total teaching workload:	373.5
Jelena Tomac	Assoc. Prof. PhD	3	12	8	Mechanisms of Brain	3
https://bib.irb.hr/l	Biomedicine and		(147)		Development	
ista-	Health / Basic		C y		(seminar)	
radova?autor=133	Medical Sciences				Intrauterine Infection of	6
676					the Central Nervous	0
					System (lectures)	
					Intrauterine Infection of	4.5
					the Central Nervous	1.5
					System (seminars)	
					Teaching workload at 1st	300
					and 2nd level :	500
					Teaching workload at	0
					other HEI:	Ũ
					Total teaching workload:	300
Siniša Tomić	Assoc. Prof. PhD -	10	30	6	Preclinical Testing of	3
https://bib.irb.hr/l	associate		(126)		Drugs (lectures)	
<u>ista-</u>	position				Management of Medicines	12
radova?autor=243	Biomedicine and				(lectures)	
<u>125</u>	Health / Basic				Teaching workload at 1st	15
	Medical Sciences				and 2nd level :	
					Teaching workload at	0
					other HEI:	
					Total teaching workload:	15
Marin Tota	Assoc. Prof. PhD	9	20	5	Separation Techniques I	9
https://bib.irb.hr/l	Biomedicine and		(40)		(lectures)	
<u>ista-</u>	Health / Basic				Teaching workload at 1st	300
radova?autor=243	Medical Sciences				and 2nd level :	
<u>035</u>					Teaching workload at	0
					other HEI:	200
7 lotho Trobersta Ya	Eull Drof	6	ſ	10	Total teaching workload:	300
Zlatko Trobonjača	Full Prof.	6	6 (105)	10	Immunology of Reproduction and	6
https://bib.irb.hr/l	PhD - tenured Biomedicine and		(105)		Reproduction and	
<u>ista-</u> radova?autor=173	Health / Basic				Perinatal Age (seminar) Immunological	12
$\frac{radova?autor=173}{625}$	Medical Sciences				Immunological Laboratory Methods	12
040	Metuical Sciences				(lectures)	
					Immunological	10
1					Laboratory	10
	1				Methods(exercises)	
				1		
					Teaching workload at 1ct	300
					Teaching workload at 1st	300
					and 2nd level :	
					and 2nd level : Teaching workload at	300 177
					and 2nd level : Teaching workload at other HEI:	177
Tihana Tršan	PhD	4	42	3	and 2nd level : Teaching workload at	



hater of the last has the	Diama diata and		(24)		(
<u>https://bib.irb.hr/l</u> ista-	Biomedicine and Health / Basic		(34)		(seminar)	2
<u>radova?autor=316</u>	Medical Sciences				Immunity to viruses	Z
<u>104</u>	Medical Sciences				(exercises) Teaching workload at 1st	300
104					and 2nd level :	300
					Teaching workload at	0
					other HEI:	0
						300
Induculus Vaulian	Full Prof.	8	31	11	Total teaching workload:	<u> </u>
Jadranka Varljen		8		11	Disorders of Carbohydrate Metabolism and Nutrition	9
https://bib.irb.hr/l	PhD - tenured Biomedicine and		(130)			
<u>ista-</u> <u>radova?autor=855</u>	Health / Basic				(lectures) Teaching workload at 1st	300
<u>15</u>	Medical Sciences				and 2nd level :	500
<u>15</u>	Methical Sciences				Teaching workload at	0
					other HEI:	0
					Total teaching workload:	300
Dinko Vitezić	Full Prof.	7	8	9		15
https://bib.irb.hr/l	PhD - tenured	/	o (117)	9	Clinical Pharmacology	15
ista-	Biomedicine and		(117)		(lectures)	6
<u>radova?autor=194</u>	Health / Basic				Clinical Pharmacology	0
<u>590</u>	Medical Sciences				(seminar)	
<u>370</u>	Metheal Sciences				Preclinical Testing of	3
					Drugs (lectures)	
					Teaching workload at 1st	300
					and 2nd level :	
					Teaching workload at	32
					other HEI:	
2					Total teaching workload:	332
Siniša Volarević	Full Prof.	10	268	21	Signal Transduction in	36
https://bib.irb.hr/l	PhD - tenured		(539)		Cells	
ista-	Biomedicine and				(lectures)	
radova?autor=236	Health / Basic				Teaching workload at 1st	300
<u>265</u>	Medical Sciences				and 2nd level :	
					Teaching workload at	144
					other HEI:	
					Total teaching workload:	444
Jadranka	PhD	7	13	4	Cytogenetics (seminar)	3
Vraneković	Biomedicine and		(37)		Teaching workload at 1st	300
https://bib.irb.hr/l	Health / Basic				and 2nd level :	
ista-	Medical Sciences				Teaching workload at	0
radova?autor=270					other HEI:	
<u>140</u>			0.5	-	Total teaching workload:	300
Jasmina Vraneš/	Full Prof.	9	35	8	Biofilm (lectures)	4
Nastavni zavod za	PhD		(82)		Teaching workload at 1st	4
Public Health dr.	Biomedicine and				and 2nd level :	
Andrija Štampar	Health / Clinical				Teaching workload at	300
https://bib.irb.hr/l	Medical Sciences				other HEI:	2.0.1
<u>ista-</u>					Total teaching workload:	304
<u>radova?autor=186</u> <u>056</u>						
<u>Darinka Vučković</u>	Full Prof.	9	17	7	Biofilm (lectures)	2
https://bib.irb.hr/l	PhD	,	(69)	, í	Cellular Microbiology	6
ista-	Biomedicine and				(lectures)	U
radova?autor=133	Health / Clinical				Teaching workload at 1st	300
<u>680</u>	Medical Sciences				and 2nd level :	500
					Teaching workload at	204
					other HEI:	201
					Total teaching workload:	504
Slopointsn	Full Prof.	24	241	42	Bone Morphogenetic	6
Vukičević/	PhD	<u> </u>	(2338)	12	Proteins and Myogenic	0
	Biomedicine and		(2000)		Regulatory Factors	
The Faculty of			1	1		
The Faculty of Medicine in Zagreb					(lectures)	
The Faculty of Medicine in Zagreb https://bib.irb.hr/l	Health / Basic Medical Sciences				(lectures) Teaching workload at 1st	6



radova?autor=538					Teaching workload at	0
<u>35</u>					other HEI: Total teaching workload:	6
Felix Wensveen	Assist. Prof. PhD	17	292	12	Molecular Mechanisms of	6
https://bib.irb.hr/l	Biomedicine and	17	(355)	12	Lymphocyte Development	0
<u>ista-</u>	Health / Basic		(333)		and Homeostasis	
radova?autor=333	Medical Sciences				(seminar)	
<u>895</u>	Methed Sciences				Molecular Mechanisms of	2
070					Lymphocyte Development	L
					and Homeostasis	
					(exercises)	
					Teaching workload at 1st	300
					and 2nd level :	500
					Teaching workload at	0
					other HEI:	0
					Total teaching workload:	300
Gordana Zamolo	Full Prof.	10	19	13	Breast Neoplasms	4.5
https://bib.irb.hr/l	PhD - tenured	10	(219)	15	(seminar)	7.5
ista-	Biomedicine and		(21))		Recent Methods in Skin	12
radova?autor=133	Health / Clinical				Tumour Diagnosis	14
<u>691</u>	Medical Sciences				(lectures)	
	- realized belefield				Teaching workload at 1st	300
					and 2nd level :	500
					Teaching workload at	0
					other HEI:	U
					Total teaching workload:	300
Luka Zaputović	Full Prof.	18	44	10	Diabetes and Obesity as	6
https://bib.irb.hr/l	PhD - tenured	10	(139)	10	Predictors of the	0
ista-	Biomedicine and		(10))		Metabolic Syndrome and	
radova?autor=133	Health / Clinical				Cardiovascular Diseases	
<u>542</u>	Medical Sciences				(lectures)	
					Clinical Pharmacology	6
					(lectures)	0
					Teaching workload at 1st	300
					and 2nd level :	
					Teaching workload at	0
					other HEI:	
					Total teaching workload:	300
Sanja Zoričić Cvek	Full Prof.	11	15	8	Bone Morphogenetic	3
https://bib.irb.hr/l	PhD		(203)		Proteins and Myogenic	
ista-	Biomedicine and				Regulatory Factors	
radova?autor=212	Health / Basic				(seminar)	
<u>371</u>	Medical Sciences				Teaching workload at 1st	300
					and 2nd level :	
					Teaching workload at	0
					other HEI:	
					Total teaching workload:	300
Gordana Žauhar	Assoc. Prof. PhD	8	15	9	Medicinska statistika	24
https://bib.irb.hr/l	Natural Sciences		(111)		(lectures)	
<u>ista-</u>	/ Physics				Medicinska statistika	15
radova?autor=142					(seminars)	
<u>294</u>					Teaching workload at 1st	150
					and 2nd level :	
					Teaching workload at	0
					other HEI:	
					Total teaching workload:	150
Gordana Župan	Full Prof.	6	18	12	Molecular Pathogenesis of	3
https://bib.irb.hr/l	PhD - tenured		(145)		Selected Neurological	
<u>ista-</u>	Biomedicine and				Diseases(lectures)	
radova?autor=142	Health / Basic				Molecular Pathogenesis of	1.5
<u>160</u>	Medical Sciences				Selected Neurological	
					Diseases(seminars)	
					Traumatic Brain Injury:	9



					Mechanisms and Treatment (lectures) Teaching workload at 1st and 2nd level :	300
					Teaching workload at other HEI:	0
					Total teaching workload:	300
Željko Župan <u>https://bib.irb.hr/l</u> <u>ista-</u>	Assoc. Prof. PhD Biomedicine and Health / Clinical	14	32 (124)	9	Traumatic Brain Injury: Mechanisms and Treatment (lectures)	9
<u>radova?autor=243</u> 046	Medical Sciences				Teaching workload at 1st and 2nd level :	150
					Teaching workload at other HEI:	0
					Total teaching workload:	150
Marta Žuvić, University of Rijeka, Department	Assoc. Prof. PhD	11	15 (40)	8	Methods of Medical Informatics in Research (lectures)	6
of Biotechnology https://bib.irb.hr/l					Teaching workload at 1st and 2nd level :	6
<u>ista-</u> radova?autor=173					Teaching workload at other HEI:	0
<u>412</u>					Total teaching workload:	6

* Indicate only if they come from outside HEI.

** Or another link showing acurate details of the works and the results of other scientific work.

*** The work load expressed in norm hours for all three levels of higher education as well as the workload on other universities.

A = number of scientific publications (books, articles, etc.) relevant to this area/field, according to the Regulations on the Election to Scientific Titles in the last five years (CROSBI update for a complete overview of the works).

B = number of citations, if applicable, and specification of the source (e.g. WoS, Scopus, Google Scholar).

The first number in column B refers to the number of citations listed in column A between 2011 and 2015. The number in parentheses refers to the number of citations of all works of a given teacher in the period 2011-2015.

C = h-index (if applicable, and specify the source).



Table 2: Mentors and doctoral students

institution*) and link to CROSBI**	research) title and area/field of choice	teachin g hours (TH)** *						topic title			. who obtain ed their PhD within the stipul ated time / no. of those who didn't but should have (in the past 5 years)
Maja Abram https://bib.ir b.hr/lista- radova?autor =133610	Full Prof. PhD – tenured Biomedicine and Health / Clinical Medical Sciences	300 (244)	13	87 (192)	10	1	3	M.M. Immune regulatory mechanisms in a murine model of experimental autoimmune neuritis L.G.	1	0	0/0
Igor Antončić https://bib.ir b.hr/lista- radova?autor =243013	Assist. Prof. PhD Biomedicine and Health / Clinical Medical	150	17	45 (79)	6	0	0	R.M. M.S.	02	0	0/0
Darko Anić https://bib.ir b.hr/lista- radova?autor =136534	Sciences Assoc. Prof. PhD - associate position Biomedicine and Health / Clinical Medical Sciences	/	5	4 (52)	6	0	0	I.J. D.Š.	0	0	0/0
Danko Bakarčić https://bib.ir b.hr/lista- radova?autor =257606	Assoc. Prof. PhD Biomedicine and Health / Dental Medicine	300	13	11 (51)	4	1	0	E.H.V. The effectiveness of chewing in children	0	0	0/0
Goran Bajek https://bib.ir b.hr/lista- radova?autor =142303 Srđan Banac	Assoc. Prof. PhD. Biomedicine and Health / Clinical Medical Sciences Full Prof.	150	16	12 (41) 8	4	0	0	A.G. B.K. N.F.	0 0 0	0 0 0	0/0



https://bib.ir	PhD			(58)				B.K.	0	0	
<u>b.hr/lista-</u>	Biomedicine			(30)				D.R.	0	0	
radova?autor	and Health /							I.Č.Č.	0	0	
<u>=221503</u>	Clinical							D.L.	0	0	
	Medical								0	0	
	Sciences										
Vesna Barac	Full Prof.	300	5	17	6	0	2	B.Ć.C.	0	0	0/0
Latas	PhD –			(37)				The effects of			
https://bib.ir	tenured							oxidative stress			
<u>b.hr/lista-</u>	Biomedicine							induced by iron			
radova?autor	and Health /							overload on			
<u>=142193</u>	Basic Medical							experimental			
	Sciences							autoimmune			
								encephalomyelitis			
	A	450	0	(4.5)	-	0	4	in rats	0	•	0.70
Zdenka	Assist. Prof.	150	0	(17)	3	0	1	A.L.	0	0	0/0
Barićev- Novaković	PhD Biomediaina							The biological			
https://bib.ir	Biomedicine and Health /							effects of CD68 molecule and			
<u>b.hr/lista-</u>	Public Health							enzyme matrix			
radova?autor	and Health							metalloproteinase			
<u>=241000</u>	Care							2 and 9 in			
								atherosclerotic			
								process			
Silvio Bašić/	Full Prof.	/	15	56	9	0	0	S.G.Ž.	0	0	0/0
The Faculty of	PhD			(136)				The effect of a local			
Medicine in	Biomedicine							anesthetic and			
Zagreb	and Health /							clonidine on quiet			
https://bib.ir	Clinical							skin period during			
<u>b.hr/lista-</u>	Medical							and after spinal			
radova?autor	Sciences							anesthesia			
<u>=282514</u>	A D f	150	11	115	10	0	1	K.B.	4	27	1 /0
Lidija Bilić- Zulle	Assoc. Prof. PhD	150	11	115 (226)	12	0	1	K.B. The value of the	4	37	1/0
https://bib.ir	Biomedicine			(220)				discovery process			
b.hr/lista-	and Health /							of plagiarism in			
radova?autor	Public Health							biomedical			
=242236	and Health							journals			
	Care							V.Š.S.	0	0	
								M.M.	0	0	
Dragica	Full Prof.	262,44	19	40	13	0	2	V.A.D.	0	0	3/0
Bobinac	PhD -	(37,56)		(364)				The effect of			,
https://bib.ir	tenured							focused and radial			
<u>b.hr/lista-</u>	Biomedicine							shock wave to the			
<u>radova?autor</u>	and Health /							healing of bone			
<u>=82736</u>	Basic Medical							fractures and the			
	Sciences							surrounding soft			
								tissue in rats	1	10	
								E.B. I.Š.	1	12 5	
								1.5. The relationship	2	Э	
								between the			
								expression of bone			
								morphogenetic			
								protein-9 and			
								transforming			
								growth factor-β			
								during the			
								regeneration			
								process of the liver			
								in humans			
								T.Ć.	2	4	
1	1	1	1	1	1	1	1	The role of BMP-7	i i	1	
								in the prevention			



					r	1		C1 · 1 · · ·	1		1
								of kidney tissue			
								damage caused by			
								cold ischemia	0	0	
								A.G.	0	0	
								Serum markers of			
								bone remodelling			
								in mineral and			
								bone metabolism			
								disorder in			
								patients with			
								chronic kidney			
								disease			
								V.M.	0	0	
								M.M.	0	0	
								M.O.	0	0	
								S.L.J.	0	0	
								V.H. Biomechanical	0	0	
								evaluation of gait	0	0	
								in people with low			
								back pain			
								syndrome prior to and after the			
								implementation of			
								physiotherapy		_	
A1 D		0.0.0			_		^	I.V.	0	0	1./0
Alan Bosnar	Full Prof.	300	14	41	7	0	0	A.P.	0	0	1/0
https://bib.ir	PhD –			(98)				Digital volumetric			
<u>b.hr/lista-</u>	tenured							analysis of sexual			
radova?autor	Biomedicine							dimorphism of			
<u>=171724</u>	and Health /							mastoid region in			
	Clinical							man and its			
	Medical							contribution to the			
	Sciences							construction of a			
								biological profile of			
								unidentified			
								remains			
Andrija	Full Prof.	22	6	19	7	1	1	D.K.	1	8	1/0
Bošnjak	PhD	(195)		(80)				Long-term			
https://bib.ir	Biomedicine							evaluation of two			
<u>b.hr/lista-</u>	and Health /							techniques of			
radova?autor	Dental							treatment of			
=228075	Medicine							isolated or			
								multiple gingival			
								recession			
Ines Brajac	Full Prof.	150	12	30	11	0	2	D.P.	0	0	1/0
https://bib.ir	PhD			(184)			_	The factors of		Ē	, -
<u>b.hr/lista-</u>	Biomedicine			(*-)				quality of life of			
radova?autor	and Health /							people with			
=221696	Clinical							psoriasis			
	Medical							S.B.Z.	1	0	
	Sciences							The role of	1		
								psychosocial			
								factors in the			
								development of			
								urticaria			
Bojana	Full Prof.	300	8	17	9	0	2	I.B.B.	2	10	1/0
Brajenović-	PhD –	500	0	(120)			-	Global DNA	1	10	±/ 0
Milić	tenured			(120)				methylation and			
https://bib.ir	Biomedicine							trisomy 21			
<u>b.hr/lista-</u>	and Health /							0130111y 21			
	Basic Medical										
					1	1			I	1	
radova?autor											
<u>=133586</u>	Sciences	150	0	0	2	0	0	7 4	0	0	0./0
		150	9	8 (12)	3	0	0	Z.A. V.B.	0	0	0/0



b.hr/lista- radova?autor =242712	Biomedicine and Health / Clinical Medical Sciences										
Ivana Brekalo Pršo <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=233060</u>	Assoc. Prof. PhD Biomedicine and Health / Dental Medicine	300	5	11 (66)	4	0	1	R.P.B. Identifying risk indicators for apical periodontitis and the effect on periapical status in adult patients J.V. M.J.G.	1 0 0	6 0 0	0/0
Boris Brkljačić/ Faculty of Medicine in Zagreb https://bib.ir b.hr/lista- radova?autor =175585	Full Prof. PhD Biomedicine and Health / Clinical Medical Sciences	(300)	28	174 (479)	16	1	1	I.V. E.G.D. The link between mammographic density of breast tissue with biological characteristics of the tumour and the surrounding tissue	0	0	0/0
Zoran Brnić https://bib.ir b.hr/lista- radova?autor =217683	Full Prof. PhD Biomedicine and Health / Clinical Medical Sciences	(280)	9	10 (56)	7	1	2	J.N.	0	0	0/0
Gordana Brumini <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=133621</u>	Assoc. Prof. PhD Biomedicine and Health / Public Health and Health Care	150 (360)	9	47 (279)	12	0	2	M.M. Attitude towards unauthorized appropriation of copyright ownership in Biomedicine	2	24	1/0
Mira Bučuk https://bib.ir b.hr/lista- radova?autor =213436	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	75 (72)	6	(54)	4	0	0	V.P.	0	0	0/0
Ljiljana Bulat Kardum <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =237810	Assist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150 (137,5)	10	31 (101)	6	2	1	O.K. S.G. Ž.K. The impact of gene polymorphism of interleukin-1 and interleukin-17 on the occurrence and clinical picture of NSCLC	0 0 1	0 0 2	0/0
Alena Buretić – Tomljanović <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=201593</u>	Full Prof. PhD Biomedicine and Health / Basic Medical Sciences	300	16	22 (87)	8	0	2	S.N. Polymorphysms of phospholipase a2 signaling pathway genes and niacin skin response in patients with schizophrenia and	6	32	1/0



								schizoaffective			
Tedi Cicvarić https://bib.ir	Assoc. Prof. PhD	150	15	29 (70)	6	0	0	disorder N.G. S.K.	1 0	0	0/0
b.hr/lista- radova?autor =240923	Biomedicine and Health / Clinical Medical Sciences							N.G. Cellular immunity and cytotoxic potential in patients with multiple body injuries	22	6	
								D.M. Comparison of the intensity of the early inflammatory response between intramedullary osteosynthesis and osteosynthesis with platers with screws in the treatment of diaphyseal fractures of the lower leg	0	0	
Željka Crnčević Orlić <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=104630</u>	Full Prof. PhD - tenured Biomedicine and Health / Clinical Medical Sciences	75	12	81 (335)	13	0	4	N.P. N.B. Bone metabolism and the role of bone morphogenetic protein-9 and -6 in patients with diabetes mellitus type 2	02	000	0/0
Olga Cvijanović <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=269863</u>	Assist. Prof. PhD Biomedicine and Health / Basic Medical Sciences	300	24	162 (164)	10	0	2	I.K. N.B. Bone metabolism and the role of bone morphogenetic protein-9 and -6 in patients with diabetes mellitus type 2	0	0	0/0
Tomislav Ćabov <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=269863</u>	Assoc. Prof. PhD Biomedicine and Health / Dental Medicine	300	6	10 (70)	7	0	0	D.K.	0	0	0/0
Zlatko Dembić/ University of Oslo https://bib.ir b.hr/lista- radova?autor =81634	Full Prof. PhD – tenured associate position Biomedicine and Health / Basic Medical Sciences	/	19	132 (609)	30	0	0	Z.J. The role of polymorphisms of genes of pro- inflammatory cytokines IL-1 and IL-17 in primary knee and hip osteoarthritis G.V.	0	0	1/0
								Ž.K. The impact of polymorphism of	0	0	



								interleukin-1 and interleukin-17 on the occurrence and clinical picture of NSCLC			
Ines Diminić- Lisica <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=258225</u>	Assoc. Prof. PhD Biomedicine and Health / Public Health and Health Care	150	3	(23)	3	1	1	S.M.	1	0	0/0
Renata Dobrila Dintinjana <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=161883</u>	Full Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150	28	40 (101)	7	0	2	J.V. The role of endogenous erythropoietin and erythropoietin receptor in malignant tumor tissues of the larynx M.G.	0	0	0/0
Antica Duletić Načinović <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=242576</u>	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	75 (100)	17	36 (107)	7	0	2	B.M.	0	0	0/0
Gordana Đorđević <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =165955	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	300 (4,5)	12	50 (137)	7	0	2	J.A. Protein expression of epidermal growth factor receptor (EGFR) and EGFR gene rearrangements in clear cell renal carcinoma	1	0	0/0
Senija Eminović <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=243136</u>	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	300	10	26 (83)	6	0	0	S.Š.P. Expression of molecules CD44, CD117 and CD133 in advanced serous ovarian cancer	0	0	1/0
Aleks Finderle https://bib.ir b.hr/lista- radova?autor =232834	Assist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150	3	3 (9)	3	0	0	B.P. N.S. N.V. J.I. M.P. Comparison of skin treatment following mediolateral episiotomies using n-butyl- 2- cyanoacrylate glue and intradermal suturing using rapidly resorbable polyglactin 910	0 0 0 0	0 0 0 0	0/0



Tanja Frančišković <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=143760</u>	Full Prof. PhD Biomedicine and Health / Clinical Medical Sciences	300 (6)	25	117 (413)	12	2	1	T.G. The impact of socio-therapeutic procedures on the quality of life and cooperation of patients with schizophrenia and depression_ D.S. A.S. The link between trauma, personality traits and coping strategies on the development of posttraumatic stress disorder in women victims of war trauma M.P. J.R.	1 0 1	0 0 0	0/0
								Z.T. Surgical treatment of hypospadias: functional, cosmetic and psychosocial consequences in adolescence	0	0	
Željko Fučkar https://bib.ir b.hr/lista- radova?autor =59156	Prof. Emeritus Biomedicine and Health / Clinical Medical Sciences	(6)	23	27 (117)	9	0	1	D.R. A.G. Serum markers of bone remodeling in mineral and bone metabolism disorder in patients with chronic kidney disease	0	02	1/0
								T.T. The significance of the expression of cyclooxygenase-2 and uroplakin in predicting recurrence of muscle non- invasive urothelial carcinoma of the bladder	2	4	
		(10)	47		11	1	1	J.A. Protein expression of epidermal growth factor receptor (EGFR) and EGFR gene rearrangements in clear cell renal carcinoma	1	0	0.40
Nikica Gabrić <u>https://bib.ir</u> <u>b.hr/lista-</u>	Full Prof. PhD – tenured	(18)	17	44 (202)	11	1	1	M.A.	1	4	0/0



radova?autor =138165	associate position Biomedicine and Health /										
Danica	Clinical Medical Sciences Assoc. Prof.	(0)	32	257	24	3	4	A.P.	1	6	0/0
Galešić Ljubanović <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=203674</u>	PhD - tenured Biomedicine and Health / Clinical Medical Sciences			(884)				Immunoglobulin M in the pathogenesis of primary and secondary focal segmental glomerulosclerosis			
Ivana Gobin https://bib.ir b.hr/lista- radova?autor =247495	Assist. Prof. PhD Biomedicine and Health / Basic Medical Sciences	300 (215,5)	3	(25)	4	0	0	M.B.	0	0	0/0
Mirjana Graovac <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =146662	Assist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150 (197)	8	8 (47)	5	0	0	T.K. J.P. Hopelessness as a predictor of cooperativeness in psychiatric patients	0	0	0/0
Svjetlana Grbac Ivanković <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =177782	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150 (15)	2	(26)	6	1	1	A.H.	1	0	0/0
Harry Grbas https://bib.ir b.hr/lista- radova?autor =220886	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150	5	9 (11)	3	0	0	M.R.A.	0	0	0/0
Gordan Gulan	Full Prof.	150	26	31	8	0	2	H.M.	0	0	1/0
https://bib.ir b.hr/lista- radova?autor =214744	PhD - tenured Biomedicine and Health / Clinical Medical Sciences			(119)				L.Š. S.R. Treatment of flexible flatfoot in children with modified calcaneo- stop method B.K.	0 2 0	0 2 0	
Herman Haller <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =146311	Full Prof. PhD- tenured Biomedicine and Health / Clinical Medical Sciences	75 (75)	22	71 (168)	11	1	1	D.V. K.K. Psychosocial factors of the partner's involvement in pregnancy	03	0 21	0/0
Goran Hauser https://bib.ir b.hr/lista- radova?autor	Assist. Prof. PhD Biomedicine and Health /	150	18	80 (184)	6	0	2	M.M. M.O. I.P.	2 0 3	0 0 0	0/0



<u>=253841</u>	Clinical Medical Sciences										
Aldo Ivančić https://bib.ir b.hr/lista- radova?autor =318843	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	75	11	12 (51)	4	0	0	I.S. Cytotoxic mediators in blood and endothelium of atherosclerotic peripheral arteries	1	10	0/0
Nataša Ivančić Jokić <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =277125	Assoc. Prof. PhD Biomedicine and Health / Dental Medicine	300	9	8 (43)	4	0	2	S.H.	0	0	0/0
Hrvoje Jakovac <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=269830</u>	Assist. Prof. PhD Biomedicine and Health / Basic Medical Sciences	300 (60)	18	172 (282)	11	0	5	T.G.K. The expression of stress proteins metallothionein and glycoprotein 96 in rat strains of different susceptibility to development of experimental autoimmune encephalomyelitis R.LJ. Correlation between polymorphism of serotonin transporter genes and metabolic syndrome in depression	3	4	1/0
Romana Jerković <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =196103	Full Prof. PhD- tenured Biomedicine and Health / Basic Medical Sciences	300	5	18 (122)	9	0	0	D.I.	2	17	0/0
Nives Jonjić https://bib.ir b.hr/lista- radova?autor =84573	Full Prof. PhD- tenured Biomedicine and Health / Clinical Medical Sciences	300	37	254 (604)	18	1	4	E.B. Correlation between the expression of osteopontin and vascular endothelial growth factor with angiogenic parameters and their prognostic value in monoclonal gammopathy of undetermined significance and multiple myeloma S.D. R.R.M. T.T. The significance of	1 0 0 1	6 0 0 1	2/0



								the expression of			
								cyclooxygenase-2 and uroplakin in			
								predicting recurrence of			
								muscle non-			
								invasive urothelial			
								carcinoma of the bladder			
Stipan Jonjić https://bib.ir b.hr/lista- radova?autor	Full Prof. PhD- tenured Biomedicine and Health /	300	55	729 (2046)	40	12	4	M.B.Č. Viral regulation of NK cells: role of inhibitory	5	21 0	1/0
<u>=95983</u>	Basic Medical Sciences							receptors Ly49 H.Š. Antitumor activity of the immune complex αCD155 / saporin in glioblastoma multiforme	0	0	
								A.M. The role of NCR1 receptor in natural and adaptive immune response to cytomegalovirus	5	56	
								I.B. The role of cytomegalovirus protein MCC-2 in viral tropism and immune response	5	22	
								D.K.	0	0	
Hari Jurdana	Assis. Prof.	/	8	56	3	0	0	A.L.B. M.M.	0	0	0/0
https://bib.ir b.hr/lista- radova?autor =310276	PhD - associate position Biomedicine and Health / Clinical Medical Sciences	7		(62)		0	0			0	
Mirna Juretić https://bib.ir b.hr/lista- radova?autor =101173	Full Prof. PhD - tenured Biomedicine and Health / Clinical Medical Sciences	150	13	7 (44)	5	0	0	M.R.	0	0	0/0
Dalibor Karlović/ University of Zagreb <u>https://bib.ir</u> <u>b.hr/lista-</u> radova?autor =251183	Prof. dr .sc. Biomedicine and Health / Clinical Medical Sciences	300	19	140 (250)	13	1	4	V.P. The symptoms of depression in schizophrenia and gene polymorphism of dopamine and serotonin systems	2	0	0/0
Marija Kaštelan <u>https://bib.ir</u> <u>b.hr/lista-</u>	Full Prof. PhD Biomedicine and Health /	300	12	30 (212)	13	0	3	S.L.	3	20	0/0



=237334

and Health /

Clinical

Medical Sciences

<u>radova?autor</u> <u>=188650</u>	Clinical Medical Sciences										
Milica Katić/ Andrija Štampar School of Public Health <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =41222	Full Prof. PhD Biomedicine and Health / Clinical Medical Sciences	/	7	20 (159)	8	2	1	T.S. Holistic approach and the quality of life of patients with chronic venous disease in the care of family physicians	0	0	0/0
Tatjana Kehler <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=280380</u>	Assist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	75	13	18 (21)	4	0	0	N.V.	0	0	0/0
Branko Kolarić https://bib.ir <u>b.hr/lista-</u> <u>radova?autor</u> =257325	Assoc. Prof. PhD Biomedicine and Health / Public Health and Health Care	150	33	122 (172)	8	1	0	M.T. Predictors of burnout syndrome and depression in doctors	2	7	1/0
Damir Kovačević <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =145306	Full Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150	8	13 (44)	4	0	1	V.M.	3	5	0/0
Daniela Kovačević – Pavičić <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =238710	Assoc. Prof. PhD Biomedicine and Health / Dental Medicine	300	18	21 (38)	4	0	1	V.F.	0	0	0/0
Miljenko Kovačević <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=65695</u>	Assoc. Prof. PhD - tenured Biomedicine and Health / Clinical Medical Sciences	150	13	12 (69)	5	0	0	I.S.L. Prognostic significance of determining monocyte chemotaxis protein-1 and interleukin-18 in patients with stenosis of carotid arteries	0	0	1/0
Maja Krašević https://bib.ir b.hr/lista- radova?autor =237334	Full Prof. PhD - tenured Biomedicine and Health /	300	7	20 (104)	9	0	0	D.P. D.V.M. The significance of expression of p16 + dual marker	0 1	0	1/0

+ dual marker

cytomorphology

Ki67,

and HPV genotypes in premalignant changes in squamous epithelium of the



								cervix of border, mild and moderate degree			
Astrid Krmpotić <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=237334</u>	Full Prof. PhD Biomedicine and Health / Basic Medical Sciences	300	14	253 (889)	23	5	5	V.J.L. Cytomegalovirus mouse transcriptome analysis M.A. The role of NKT cells in the modulation of a specific immune response to the virus B.P. I.S. The role of NKG2D receptors in the	3 3 0 2	93 47 0 51	3/0
								immune control of cytomegalovirus infection			
								L.H. J.Ž.	0	0	
Vjekoslav Krželj/ CHC Split, Children's Hospital; Faculty of Medicine, University of Split https://bib.ir b.hr/lista- radova?autor =207195	Full Prof. PhD Biomedicine and Health / Clinical Medical Sciences	20	10	20 (452)	8	0	1	I.Č.Č.	1	2	0/0
Natalia Kučić https://bib.ir b.hr/lista- radova?autor =239812	Full Prof. PhD Biomedicine and Health / Basic Medical Sciences	300	6	46 (86)	7	0	3	D.B. " Neuroimmunologi cal indicators of damage in patients with ischemic strok e"	1	0	0/0
Milodar Kujundžić <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=227906</u>	Assist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150	12	8 (14)	3	0	1	G.M. The impact of the absence of air flow to the function of the olfactory region	0	0	0/0
Vlatka Lajnert https://bib.ir b.hr/lista- radova?autor =279583	Assist. Prof. PhD Biomedicine and Health / Dental Medicine	300	22	49 (52)	4	0	0	T.J.	0	0	0/0
Gordana Laškarin <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=239823</u>	Full Prof. PhD Biomedicine and Health / Basic Medical Sciences	75	25	73 (368)	17	1	3	T.G. The effect of heat shock protein 70 and 96 on glycoprotein maturation of CD1a ⁺ decidual dendritic cells in	2	2	4/0

								the first the second seco			I
								the first trimester			
								of pregnancy V.P.P.	3	6	
								Cell-mediated	3	0	
								immunity and the			
								role of apoptotic			
								granulysin			
								molecules in			
								patients with			
								myocardial			
								infarction			
								A.R.	5	16	
								The effect of			
								tumour			
								glycoproteins 72			
								on decidual			
								dendritic cells in			
								early in vitro			
								-			
								pregnancy			
								I.R.	1	0	
								L.G.G.	2	0	
								Immunological			
								events at the			
								junction of the			
								maternal and			
								embryonic tissue			
								in retained			
								abortion and			
								anembryonic			
								pregnancy			
								D.T.S.	4	7	
								Evaluation of the			
								inflammatory			
								response in			
								patients during			
								acute myocardial			
								infarction			
								A.L.B.	0	0	
Tihana Lenac	Assoc. Prof.	300	12	133	11	8	7	P.K.B.	0	0	0./0
		300	13		11	8	/	P.K.B.	0	0	0/0
Roviš	PhD Diama diaina			(214)							
https://bib.ir	Biomedicine										
b.hr/lista-	and Health /										
radova?autor	Basic Medical										
<u>=270252</u>	Sciences				-	-	<u> </u>		-		
Franjo	Assist. Prof.	150	6	10	2	0	1	D.K.	0	0	0/0
Lovasić	PhD			(10)				Prognostic			
https://bib.ir	Biomedicine							significance of			
<u>b.hr/lista-</u>	and Health /							macrometastases			
radova?autor	Clinical							and			
<u>=237891</u>	Medical							micrometastases			
	Sciences							in the sentinel			
								lymph node in			
								patients with			
								HER2-positive			
								invasive ductal			
								breast cancer			
Ksenija Lučin	Full Prof.	300	9	49	12	0	2	M.A.	4	4	2/0
https://bib.ir	PhD	000		(187)		Ű		The prognostic			2,0
b.hr/lista-	Biomedicine			(10/)				value and			
radova?autor	and Health /							interrelationship			
<u>=142235</u>	Clinical							of osteopontin and			
-112233	Medical							morphology of the			
	Sciences							invasive tumour			
	Sciences										
1	1			1	1	1	1	front in squamous	1	I	



								cell carcinoma of the oral cavity			
								C.Š. The role of osteopontin in the progression of non-small cell lung cancer	1	9	
Pero Lučin https://bib.ir b.hr/lista- radova?autor =142314	Full Prof. PhD - tenured Biomedicine and Health / Basic Medical Sciences	37,5 (6)	9	74 (501)	19	0	5	A. G.	0	0	0/0
Dragan Ljutić/ The Faculty of Medicine in Split <u>https://bib.ir</u> b.hr/lista- radova?autor =132855	Full Prof. PhD Biomedicine and Health / Clinical Medical Sciences	/	20	62 (172)	11	0	0	J. P.	0	0	0/0
Hana Mahmutefend ić <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =247686	Assoc. Prof. PhD Biomedicine and Health / Basic Medical Sciences	300	5	44 (81)	7	0	4	LJ.K.	0	0	0/0
Ozren Mamula <u>https://bib.ir</u> <u>b.hr/lista-</u> radova?autor =145310	Assist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150	8	18 (29)	4	0	0	R.B.	0	0	0/0
Darko Marčinko/ The Faculty of Medicine in Zagreb <u>https://bib.ir</u> <u>b.hr/lista-</u> radova?autor =328484	Assist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	/	29	171 (351)	13	0	0	I.Š.U. Pathological narcissism and concentrations of lipid fractions in male subjects with personality disorder who attempted suicide	0	0	0/0
Ivana Marić https://bib.ir b.hr/lista- radova?autor =212345	Full Prof. PhD Biomedicine and Health / Basic Medical Sciences	300	8	45 (233)	10	0	3	I.S.	1	6	0/0
Dean Markić https://bib.ir b.hr/lista- radova?autor =257441	Assist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150	28	26 (57)	4	0	2	M.T. I.V.	000	000	0/0
Tamara Martinac Dorčić/ Faculty of	Assist. Prof. PhD Social Sciences / Psychology	(330)	5	1 (16)	2	0	1	K.K. Psychosocial factors of the partner's	1	0	0/0



Humanities and Social Sciences in Rijeka - Department of Psychology <u>https://bib.ir</u> <u>b.hr/lista-</u>								involvement in pregnancy			
<u>radova?autor</u> =222504											
Ivo Matić https://bib.ir b.hr/lista- radova?autor =251273	Full Prof. PhD	/	/	/	/	/	/	B.Ž. I.D.	/	/	0/0
Igor Medved https://bib.ir b.hr/lista- radova?autor =251644	Assist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150	3	(29)	4	0	0	A.LJ.	0	0	0/0
Maja Merlak https://bib.ir b.hr/lista- radova?autor =270125	Assist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	300	2	7 (14)	3	0	0	P.Ć. M.B.B. R.G.L.	0 0 0	0 0 0	0/0
Julije Meštrović https://bib.ir <u>b.hr/lista-</u> <u>radova?autor</u> =143034	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	4 (147)	15	15 (60)	6	0	0	K.L.T. Predicting the outcome of treatment in the neonatal ICU	0	0	0/0
Vladimir	Full Prof.	150	14	51	10	1	1	A.C.	0	0	0/0
Mićović https://bib.ir b.hr/lista- radova?autor =225825	PhD Biomedicine and Health / Public Health and Health Care			(220)				G.K.J. I.K.	1 0	7 0	
Radovan Mihelić https://bib.ir b.hr/lista- radova?autor =182120	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	75	14	109 (141)	7	0	0	D.P.	0	0	0/0
Brankica Mijandrušić Sinčić <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=243173</u>	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150	12	29 (100)	6	1	3	V.L. The role of polymorphisms of genes of auto immune response for predisposition and clinical expression of celiac disease M.S. I.K.	3	0	1/0
Damir Miletić <u>https://bib.ir</u> <u>b.hr/lista-</u>	Full Prof. PhD – tenured	150	16	22 (126)	9	0	0	M.P. D.D. L.T.	0 0 0	0 0 0	0/0



radova?autor	Biomedicine				1			J.N.	0	0	
<u>=212604</u>	and Health /							S.K.	1	0	
<u>-21200+</u>	Clinical							Magnetic	T	0	
	Medical							resonance imaging			
	Sciences							in the evaluation of			
	Sciences										
								endothelial			
								dysfunction in			
								patients with			
								decompensated			
								heart failure			
								M.R.M.G.	0	0	
								The value of			
								magnetic			
								resonance imaging			
								in the pre-			
								operational			
								assessment of the			
								local extent of			
								rectal cancer			
<u>c l N'l'</u>		200	26	017	11	2	2		0	0	0.40
Sandra Milić <u>https://bib.ir</u>	Assoc. Prof. PhD	300	26	217 (271)	11	3	3	I.S. N.F.	0	0	0/0
<u>b.hr/lista-</u>	Biomedicine			(4/1)				The association of	<u></u>	0	
radova?autor	and Health /							metabolic			
=243151	Clinical							syndrome with			
<u>-210101</u>	Medical							nonalcoholic fatty			
	Sciences							liver disease			
	belefices							established by			
								transient			
								elastography			
Ines	Full Prof.	262,44	12	28	7	1	1	D.D.	0	0	0/0
Mrakovčić	PhD	(325)		(68)		-	-	V.T.	0	0	0/0
Šutić	Biomedicine	()		()				V.P.	0	0	
https://bib.ir	and Health /							D.S.	0	0	
b.hr/lista-	Basic Medical							S.X.	0	0	
radova?autor	Sciences							A.L.	0	0	
<u>=146280</u>								Biological effects	Ŭ	Ŭ	
								of CD68 molecule			
								of matrix			
								metalloproteinase			
								2 and 9 enzyme in			
								the atherosclerotic			
								process			
Biserka Mulac	Full Prof.	300	8	118	24	2	3	T.N.	4	44	0/0
– Jeričević	PhD	500	0	(831)	²⁷	-	5	The role of	т	тт	0/0
https://bib.ir	Biomedicine			(331)				progesterone in			
<u>b.hr/lista-</u>	and Health /							the activation of			
radova?autor	Basic Medical							osteopontin and			
<u>=32705</u>	Sciences							transcription			
	50.0.1000							factors Hand2 in			
								mouse uterus			
								during early			
								pregnancy			
								S.Š.	4	77	
Elvira Mustać	Full Prof.	300	15	43	10	0	1	L.K.	0	0	1/0
<u>https://bib.ir</u>	PhD -			(145)				S.O.	0	0	
<u>b.hr/lista-</u>	tenured							B.B.	0	0	
radova?autor	Biomedicine							K.R.M.	1	2	
<u>=161903</u>	and Health /							The association of			
	Clinical							the molecular			
	Medical							subtypes of breast			
								cancer and the			
	Medical										



								E.G.D. The association between mammographic density of breast tissue and biological characteristics of the tumour and the surrounding tissue	0	0	
Amir Muzur https://bib.ir b.hr/lista- radova?autor =259840	Full Prof. PhD Biomedicine and Health / Basic Medical Sciences	150 (86)	18	7 (215)	8	0	1	T.Č. Historical-medical and public health effects of imbalanced economic development of Rijeka and its surroundings in the 19 th century H.P.	0	0	1/0
								M.Š.P.	0	0	
Harry Nikolić https://bib.ir b.hr/lista- radova?autor =240971	Assist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	75	12	10 (21)	3	0	0	Z.T. Surgical treatment of hypospadias: functional, cosmetic and psychosocial consequences in adolescence A.B.V.	0	0	0/0
								Concentration of 5- hydroxyindole acetic acid in the urine as predictive indicator of acute appendicitis in children D.H.	0	0	
Srđan Novak https://bib.ir b.hr/lista- radova?autor =243140	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	300	15	140 (817)	7	1	1	F.A. The association between the activity and severity of systemic lupus erythematosus and the number of classification criteria and duration of disease	1	0	1/0
Lidija Orlić https://bib.ir b.hr/lista- radova?autor =255143	Assist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150	35	114 (108)	7	0	2	I.M. Nonalcoholic fatty liver disease (NAFLD) - a factor of progression of chronic kidney disease	5	47	1/0
Saša Ostojić https://bib.ir b.hr/lista- radova?autor =238754	Full Prof. PhD Biomedicine and Health / Basic Medical Sciences	300 (172,5)	13	42 (183)	10	0	1	N.P. The variability of matrix metalloproteinase genes and tissue metalloproteinase inhibitors in	2	13	1/0



Goran Palčevski

150

Assoc. Prof. PhD

					couples with recurrent abortions of unknown etiology			
4	14 (97)	9	0	0	T.K. B.P. Long-term neuro- developmental outcome of children born in the breech presentation with respect to the childbirth termination	0	0	0/0
2	7 (29)	4	0	1	A.V. N.D.Z.	0	0	0/0
4	4 (24)	4	0	0	R.LJ. The association of serotonin transporter gene polymorphism and metabolic syndrome in depression	0	0	0/0
5	6 (23)	3	0	1	A.L.K.	0	0	0/0

Sandra Pavičić Zeželj Intros://bibir Biomedicine and Health / z292881150 (65)27 (29)401N.D.Z.000/0Litros://bibir adavaZautor =161936Assoc. Prof. PhD Biomedicine and Health / Care300 PhD44 (24)00R.I.J. The association of serotonin transporter gene polymorphism and metabolic syndrome in depression0000/0Goran Pelčić Intros://bibir blr/lista- radovaZautor =2327922Assist. Prof. PhD15056 (23)301ALK.000/0Goran Pelčić blr/lista- radovaZautor =2327922Assist. Prof. PhD Clinical Medical Sciences15056 (23)301ALK.000/0Olivio =238855Psico PhD Clinical Medical Sciences7584 (17)301D.M.221/0Viktor Peršić https://bibir and Health / Clinical mathwaltor75 (36)1728 (64)222SM00Viktor Peršić clinical sciencesAssoc. Prof. PhD (Clinical Medical Sciences75 (64)1728 (64)22221/0Iutps://bibir addvaZautor =303361Gassoc. Prof. PhD (Clinical Activation75 (64)1728 (64)22221/0Iutps://bibir addvaZautor =303361	Palčevski https://bib.ir b.hr/lista- radova?autor =243581	PhD Biomedicine and Health / Clinical Medical Sciences			(97)				B.P. Long-term neuro- developmental outcome of children born in the breech presentation with respect to the childbirth termination A.V.	0	0	
Pavlović https://bibir b.hr/lista- radova?autorPhD Biomedicine and Health / Clinical Medical SciencesStasst. Prof.15056 6 (23)301ALK.000Goran Pelčić https://bibir b.hr/lista- radova?autorAssist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences15056 (23)301ALK.000Olivio Perković https://bibir b.hr/lista- radova?autorAssist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences7584 (17)301D.M.22 (2)1/0Olivio Perković radova?autorAssist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences7584 (17)301 L Ence PhD000Olivio Perković radova?autorAssoc. Prof. PhD PhD Biomedicine and Health / Clinical Medical Sciences7517 (83,5)28 (64)6 L L 	Pavičić Žeželj https://bib.ir b.hr/lista- radova?autor	PhD Biomedicine and Health / Public Health and Health		2		4	0	1		-		0/0
https://bibir bir/lista- radova?autor =237922PhD Biomedicine and Health / Clinical Medical SciencesPhD sciences(23)<	Pavlović https://bib.ir b.hr/lista- radova?autor =161936	PhD Biomedicine and Health / Clinical Medical Sciences			(24)		0	0	The association of serotonin transporter gene polymorphism and metabolic syndrome in depression	0	0	0/0
Perković https://bib.ir b.hr/lista- radova?autor =238855PhD Biomedicine and Health / Clinical Medical Sciences(36)(17)(17)I.G. N000Viktor Peršić https://bib.ir adova?autor =303361Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences751728622S.M.00Viktor Peršić b.hr/lista- and Health / Clinical Medical Sciences751728622S.M.00Viktor Peršić b.hr/lista- and Health / Clinical Medical Sciences751728622S.M.00Viktor Peršić b.hr/lista- calcum scoring of Clinical Medical Sciences751728622S.M.00I.U.B. Clinical Medical Sciences751728622S.M.00Viktor Peršić b.hr/lista- computed tomography in the early diagnosis of atherosclerotic disease and primary prevention of 	https://bib.ir b.hr/lista- radova?autor	PhD Biomedicine and Health / Clinical Medical	150	5		3	0	1	A.L.K.	0	0	0/0
Viktor Peršić https://bib.ir b.hr/lista- radova?autor =303361Assoc. Prof.751728622S.M.002/0M.R.0001.U.B.0001.U.B.00=303361Clinical Medical SciencesMedical SciencesMedical sciences0000# Medical SciencesImage: science	Perković <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u>	PhD Biomedicine and Health / Clinical Medical		8		3	0	1	I.G. Matrix metalloproteinase gene polymorphism and fibrinolysis in			1/0
R.M. 2 3 Circulating heat	<u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u>	PhD Biomedicine and Health / Clinical Medical		17		6	2	2	S.M. M.R. I.U.B. Ž.M. Calcium scoring of coronary arteries with multilayer computed tomography in the early diagnosis of atherosclerotic disease and primary prevention of unwanted coronary events R.M.	0	0	2/0



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								shock protein in patients with acute myocardial infarction			
								V.P.P. Cell mediated immunity and the role of apoptotic granulysin molecules in patients with myocardial infarction D.T.S.	2	1	
								Evaluation of the inflammatory response in patients during acute myocardial infarction			
Marija Petković <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =133654	Full Prof. PhD – tenured Biomedicine and Health / Clinical Medical Sciences	150 (42)	14	49 (198)	7	1	1	E.C.T. Expression of biomarkers p53, bcl-2 and NF-kB in prostate cancer patients treated with radiotherapy I.Š.	1	1	0/0
Mladen Petrovečki https://bib.ir b.hr/lista- radova?autor =155583	Full Prof. PhD - tenured Biomedicine and Health / Public Health and Health Care	150 (93)	13	41 (303)	16	0	2	V.P. The incidence and characteristics of plagiarism and scientific dishonesty in Croatian and international scientific community	3	7	1/0
Oleg Petrović https://bib.ir b.hr/lista- radova?autor =156540	Full Prof. PhD – tenured Biomedicine and Health / Clinical Medical Sciences	300	15	29 (98)	8	0	1	I.P. G.S. M.M. The expression of VEGF, HIF 1 alpha and EPORO as indicator of changes in hypoxic placental tissue	0 0	0 0	0/0
Sonja Pezelj Ribarić https://bib.ir b.hr/lista- radova?autor =233431	Full Prof. PhD Biomedicine and Health / Dental Medicine	300	15	43 (219)	12	0	1	I.M. The association of metabolic syndrome and periodontal disease	3	9	0/0
Bojan Polić <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=173636</u>	Full Prof. PhD – tenured Biomedicine and Health / Basic Medical Sciences	300 (45)	17	300 (765)	21	3	2	M.L. The role of NKG2D receptor in the development and homeostasis of B lymphocytes V.J.	2	50	0/0
	Sciences							V.J. The mechanism of increased supervision of	2	54	



Snježana Prijić Samaržija/ University of Rijeci, Faculty of Humanities and Social Sciences https://bib.ir b.hr/lista- radova?autor	Full Prof. PhD Social Sciences/ Philosophy	/	6	5 (7)	2	1	2	tumour by NK cells in mice lacking NKG2D receptor H.Š. Antitumour activity of immune αCD155 /saporin in glioblastoma multiforme M.Š. V.P. The incidence and characteristics of plagiarism and scientific dishonesty in Croatian and international scientific community	0	0 31 0	1/0
<u>=230955</u> Alen Protić <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=333491</u>	Assist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	75	8	3 (53)	5	0	1	P.Š. I.D. M.M. M.M. T.P. I.B. Comparison of targeted wire- guided chest drain and the traditional surgical technique	0 0 0 0 2	0 0 0 0 2	0/0
Igor Prpić https://bib.ir b.hr/lista- radova?autor ≡195850	Full Prof. PhD – tenured Biomedicine and Health / Clinical Medical Sciences	300 (120)	14	31 (120)	7	2	1	J.R.N. The impact of prenatal exposure to long chain polyunsaturated fatty acids on anthropological measures, the size of the brain and early neurodevelopment al outcome of newborns R.K. I.V.C. Risk and protective factors in the psychological adjustment of children with epilepsy P.V. I.M.	0 0 0 0	0 0 0 0	0/0
Larisa Prpić Massari <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=230503</u>	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	301	8	28 (122)	9	0	1	M.V.	0	0	0/0



Sanjin Rački	Assoc. Prof. PhD	150	72	147	9	0	2	I.J.P.	0	0	0/0
https://bib.ir b.hr/lista- radova?autor =255641	Biomedicine and Health / Clinical Medical Sciences			(195)				G.D. V.L.Ž. I.M.D. The clinical benefits of online hemo-diafiltration compared to conventional hemodialysis	0 0 1	0 0 14	
Anđelka Radojčić Badovinac <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =119673	Full Prof. PhD - tenured Biomedicine and Health / Basic Medical Sciences	150 (285)	4	15 (32)	7	0	1	T.T.M. Anti-Müllerian hormone - an indicator of the quality of ova and embryos D.LJ.	1	0	1/0
Iva Rinčić https://bib.ir b.hr/lista- radova?autor =247765	Assist. Prof. PhD Social Sciences/ Philosophy	150 (186)	7	5 (5)	2	2	6	G.B.	0	0	0/0
Smiljana Ristić <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =142283	Full Prof. PhD - tenured Biomedicine and Health / Basic Medical Sciences	300 (80,5)	13	32 (182)	11	2	5	I.G. Polymorphisms of matrix metalloproteinases genes and fibrinolysis in multiple sclerosis A.Š.R. M.V.	3 0 0	2 0 0	1/0
Jelena Roganović <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=113042</u>	Full Prof. PhD – tenured Biomedicine and Health / Clinical Medical Sciences	150	9	2 (33)	5	0	0	S.Š. The predictive model of recurrent episodes of neutropenic fever in pediatric cancer patients M.R.	0	0	0/0
Vojko Rožmanić <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=180783</u>	Full Prof. PhD – tenured Biomedicine and Health / Clinical Medical Sciences	150	8	15 (110)	8	0	0	S.Š.	0	0	0/0
Gordana Rubeša <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=194610</u>	Full Prof. PhD Biomedicine and Health / Clinical Medical Sciences	300 (160)	5	12 (73)	11	0	1	S.B.Z. The role of psychosocial factors in the development of urticaria	1	0	1/0
Daniel Rukavina <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=41705</u>	Prof. emeritus/ Biomedicine and Health / Basic Medical Sciences	/	14	63 (671)	23	0	2	T.G. The effect of heat shock protein 70 and 96 on glycoprotein maturation of CD1a ⁺ decidual dendritic cells in the first trimester	4	0	2/0



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								of pregnancy M.D.	4	0	
								M.D. Expression and	4	0	
								function of			
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								granulysin and			
								decidua in the first			
								trimester of			
						_		pregnancy	_	_	a. (a
Tomislav	Full Prof.	262,5	6	6	6	2	1	H.B.S.	0	0	0/0
Rukavina	PhD			(48)				Demographic and			
https://bib.ir	Biomedicine							socio economic			
<u>b.hr/lista-</u>	and Health /							characteristics as			
radova?autor	Clinical							risk factors for			
<u>=163264</u>	Medical							heavy alcohol			
	Sciences							intake in adults	_	_	
								S.G.B.	0	0	
								S.G.	0	0	
								S.S.	0	0	
Alen Ružić	Assoc. Prof.	150	15	27	7	0	1	D.R.	0	0	1/0
https://bib.ir	PhD	(12)		(103)				E.A.	0	0	
<u>b.hr/lista-</u>	Biomedicine							G.B.	0	0	
radova?autor	and Health /							L.B.	0	0	
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	Medical							D.L.	0	0	
	Sciences							L.S.	0	0	
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								Magnetic	T	0	
								resonance imaging			
								in the evaluation of			
								endothelial			
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								heart failure	0	0	
								T.S.	0	0	
								Holistic approach			
								and the quality of			
								life of patients			
								with chronic			
								venous disease in			
								the care of family			
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								T.Z.J.	1	0	
								The prognostic			
								value of a			
								combination of			
								simple clinical and			
								laboratory			
								parameters for			
								predicting in-			
								hospital outcomes			
								in patients with			
								acute			
								decompensated			
								heart failure			
Теа	Assoc. Prof.	150	10	34	4	0	2	D.K.	0	0	2/0
Schnurrer	PhD			(54)				V.A.D.	0	0	
Luke-Vrbanić	Biomedicine							The effect of			
https://bib.ir	and Health /							focused and radial			
<u>b.hr/lista-</u>	Clinical							shockwave on the			
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<u>=201571</u>	Sciences							fractures and the			
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Sunčana Simonić- Model in patients with lower limb amputationAssist. Prof. Simonić- PhD3001219300P.T.000Simonić- Kocijan https://bib.ir b.hr/lista- radova?autorBiomedicine and Health / Dental1219300P.T.000Mada Sindičić Dessardo PhD - https://bib.ir b.hr/lista- radova?autorDental Medicine0077000Nada Sindičić Dessardo PhD - b.hr/lista- radova?autor627400J.M.100Nada Sindičić Dessardo PhD - b.hr/lista- radova?autor Biomedicine aradova?autor627400J.M.100Nada Sindičić Dessardo PhD - clinical Medical Sciences627400J.M.100Neda Siniljan Severinski https://bib.ir Biomedicine154(29)412P.D.00Neda Siniljan Severinski https://bib.ir Biomedicine154(29)412P.D.00	·
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S.K. 6 0	
H.V. 0 0	
P.B.V. 0 0	
Aleksandar Full Prof. 150 2 4 4 0 0 J.N. 0 0 0	0/0
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Sciences	
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Stanković PhD Global DNA	
methylation and	
trisomy 21	
	0/0
Sotošek PhD (60) (148) The effect of	1 -
Tokmadžić Biomedicine	
https://bib.ir and Health / infusion on the	
<u>b.hr/lista-</u> Clinical endothelial	
=240934 Sciences patients treated by	
laparoscopic	



			1		1	1	r			-	
								D.H.K.	0	0	
								A.F.P.	0	0	
								M.I.	0	0	
								J.K.	0	0	
								A.T.M.	0	0	
								A.B.	0	0	
								I.D.	0	0	
								D.K.	0	0	
								I.B.	0	0	
								B.Ž.	0	0	
								I.S.	0	0	
								Cytotoxic	0	0	
								mediators in blood			
								and			
								atherosclerotic			
								endothelium of			
								peripheral arteries			
								J.S.	0	0	
								The impact of			
								preoperative oral			
								nutrition on early			
								immune response			
								in patients with			
								coronary heart			
								disease treated			
								with surgical			
								myocardial			
								revascularization			
								S.V.B.	0	0	
									0	0	
								Comparison of the			
								impact of			
								continuous			
								epidural and			
								multimodal			
								systemic analgesia			
								and peripheral			
								nerve blocks on			
								the change of			
								cellular immunity			
								in patients after			
								total knee			
								endoprosthesis			
								N.G.	0	0	
								Cellular immunity	0		
								and cytotoxic			
								potential in			
								patients with			
								multiple body			
NY 1	A 1 . D 2					-	~	injuries	~		4.10
Nada	Assist. Prof.	300	9	23	8	1	3	V.L.	3	4	1/0
Starčević	PhD			(72)				The effect of			
Čižmarević	Biomedicine							polymorphisms of			
https://bib.ir	and Health /							autoimmune			
<u>b.hr/lista-</u>	Basic Medical							response genes on			
radova?autor	Sciences							the predisposition			
<u>=269874</u>								and clinical			
								expression of			
								celiac disease			
Marina Šantić	Full Prof.	300	5	90	20	1	3	M.O.	4	12	1/0
https://bib.ir	PhD	(181)	-	(645)	_			The role of <i>pilO</i>		_	, -
<u>b.hr/lista-</u>	Biomedicine	(101)		(010)				genes in the			
radova?autor	and Health /							pathogenesis of			
<u>=242464</u>	Clinical							experimental			
<u>-212TUT</u>	Medical							tularemia			
			1	1	1	1	1	tulai tillid	1	1	



	Sciences							V.M.	4	12	
Branko Šestan <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=200702</u>	Full Prof. PhD – tenured Biomedicine and Health / Clinical Medical Sciences	150 (164)	30	93 (179)	10	0	2	M.V. Z.J. The role of polymorphisms of pro-inflammatory cytokines IL-1 and IL-17 genes in primary knee and hip osteoarthritis M.B.	04	0 0 0	1/0
Mario Šlaus/ The Faculty of Medicine in Zagreb <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=189976</u>	Full Prof. PhD	/	27	125 (312)	14	0	0	A.P. Digital volumetric analysis of sexual dimorphism of mastoid region in man and its contribution to the construction of a biological profile of unidentified remains	0	0	1/0
Stjepan Špalj https://bib.ir b.hr/lista- radova?autor =269751	Assoc. Prof. PhD Biomedicine and Health / Dental Medicine	150 (52,5)	30	86 (111)	7	0	2	M.T.Z. Examination of the degree of polymerization and genotoxicity of conventional and bioactive orthodontic adhesive systems V.K. The influence of enamel remineralisation agents on corrosion of orthodontic nickel- titanium wire arches	0	0	0/0
								A.P. Z.R.V. The significance and value of phenotypic developmental disorders of children with disabilities and people with disabilities in the Primorje-Gorski Kotar region_ A.K. The impact of vertical force and torque on the primary stability of orthodontic	0	0	
Josip Španjol https://bib.ir b.hr/lista- radova?autor	Assist. Prof. PhD Biomedicine and Health /	150	36	72 (210)	9	1	1	miniimplants M.M. N.R.	0 0	0 0	0/0



<u>=247721</u>	Clinical Medical Sciences										
Zdravko Špirić/ OIKON zelena infrastruktur a d.o.o. <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=162660</u>	Assoc. Prof. PhD - associate position Technical Sciences / Chemical Engineering	37,50	22	213 (321)	12	9	1	J.R.N. The impact of prenatal exposure to long chain polyunsaturated fatty acids on anthropological measures, the size of the brain and early neurodevelopment al outcome of newborns	0	0	0/0
Sanja Štifter https://bib.ir b.hr/lista- radova?autor =247706	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	300	17	39 (151)	10	1	1	M.J.	0	0	0/0
Davor Štimac https://bib.ir b.hr/lista- radova?autor =195543	Full Prof. PhD - tenured Biomedicine and Health / Clinical	300	64	478 (814)	19	1	2	G.P. The effectiveness of enteral nutrition in the treatment of patients with acute pancreatitis	4	23	2/0
	Medical Sciences							Ī.Š.P. T.Z.	0	0	
								V.G. Diagnostic accuracy of different methods in the diagnosis of choledocholithiasis	3	3	
Mirna Šubat –	Assoc. Prof.	300	8	20	7	0	0	M.P.P. D.G.M.	0	0	0/0
Dežulović https://bib.ir b.hr/lista- radova?autor =168420	PhD Biomedicine and Health / Clinical Medical Sciences			(61)				S.F.R. The value of renal function and blood pressure in children followed for prenatally observed anomalies of the kidney and the urinary tract	0	0	
Alan Šustić https://bib.ir b.hr/lista- radova?autor =232680	Full Prof. PhD – tenured Biomedicine and Health / Clinical Medical Sciences	75	20	50 (321)	13	0	3	M.B. K.D. The significance of linear regression likelihood of hospital death in predicting the outcome of intensive care D.M.	0 1 0	0 0 0	1/0
Vanja Tešić https://bib.ir b.hr/lista- radova?autor =336446	Assist. Prof. PhD Biomedicine and Health / Public Health	150 (100)	6	10 (69)	5	0	0	J.B.	0	0	0/0



	and Health										
Brigita Tićac https://bib.ir b.hr/lista- radova?autor =163253	Care Assoc. Prof. PhD Biomedicine and Health / Clinical Medical	150 (223,5)	4	18 (45)	5	0	4	D.P. D.R.	0	0	0/0
Mladenka Tkalčić/ Faculty of Humanities and Social Sciences in Rijeka <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =161666	Sciences Full Prof. PhD – tenured Social Sciences / Psychology	/	9	40 (87)	6	0	0	D.P. Factors of quality of life of people with psoriasis	0	0	0/0
Joanne Trgovicich	Assoc. Prof. PhD Biomedicine and Health / Basic Medical Sciences	/	/	/	/	/	/	V.J.L. Cytomegalovirus mouse transcriptome analysis	/	/	1/0
Zlatko Trobonjača <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=173625</u>	Full Prof. PhD – tenured Biomedicine and Health / Basic Medical Sciences	300 (177)	6	6 (105)	10	0	2	V.O.K. Immunological changes in the application of gabapentin I.S.L. Prognostic significance of determining monocyte chemotaxis protein-1 and interleukin-18 in patients with stenosis of carotid arteries D.LJ. G.M. B.M.	1 1 0 0 0	0 1 0 0 0 0	1/0
Anton Tudor https://bib.ir b.hr/lista- radova?autor =216533	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	75	14	72 (148)	6	0	5	D.M. D.M. T.T. N.M. J.J. M.M.B. Spinal anesthesia with hyperbaric bupivacaine and its effect on posterior root- muscle reflexes of cauda equina roots in minimal invasive hip surgery T.M. Ultrasound-guided surgical treatment		0 0 0 0 0 0	1/0



								of Haglund disease			
Lidija Tuškan Mohar <u>https://bib.ir</u> b.hr/lista- <u>radova?autor</u> <u>=213440</u>	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150 (54)	6	(41)	4	0	0	B.Z. D.B. Neuroimmunologi cal indicators of damage in patients with ischemic stroke		0 0	0/0
Ivone Uhač https://bib.ir b.hr/lista- radova?autor =177183	Full Prof. PhD Biomedicine and Health / Dental Medicine	300	14	24 (84)	7	0	2	V.B. R.V.	0 0	0	0/0
Toni Valković https://bib.ir b.hr/lista- radova?autor =237356	Full Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150	13	17 (109)	7	0	3	D.G. Correlation of bone marrow fibrosis with other pathohistological molecular parameters and imaging methods in Philadelphia negative chronic myeloproliferative neoplasms I.S.B.	0	0	1/0
								I.S.B. Morphological and immunohistochem ical chromosomal changes in multiple myeloma cells	1	0	
Jadranka Varljen <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=85515</u>	Full Prof. PhD – tenured Biomedicine and Health / Basic Medical Sciences	300 (186)	8	31 (130)	11	2	2	S.B. The role of dipeptidyl peptidase 8 and 9 in the experimental model of Crohn's disease in CD26 deficient mice	5	18	1/0
Dinko Vitezić https://bib.ir b.hr/lista- radova?autor =194590	Full Prof. PhD - tenured Biomedicine and Health / Basic Medical Sciences	300 (32)	7	8 (117)	9	0	1	R.Š. M.T.S.	0 0	0 0	0/0
Vera Vlahović- Palčevski https://bib.ir b.hr/lista- radova?autor =194575	Full Prof. PhD Biomedicine and Health / Basic Medical Sciences	75 (360)	23	240 (371)	16	1	1	N.R.Q. The impact of educational measures on outpatient and hospital consumption of antimicrobial agents	4	29	2/0
								B.P. Evaluation of the quality of prescribing drugs to the elderly in primary health	1	8	



					1	1	1		1		1
								care in Croatia LJ.B.R. Evaluation of the quality of prescribing antimicrobial drugs in primary health care in Croatia	0	0	
Siniša Volarević <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =236265	Full Prof. PhD – tenured Biomedicine and Health / Basic Medical	300 (144)	10	268 (539)	21	2	5	S.B.C. The role of ribosomal proteins in the activation of the p53 tumor suppressor	4	11 0	2/0
	Sciences							M.C.B. The mechanisms by which tumor suppressor p53 causes Rpl24- pathological phenotype in heterozygous mice	3	10 9	
									3	91	
								I.O. D.J.	1	1	
		200	10	10	10						1.10
Gordana Zamolo <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=133691</u>	Full Prof. PhD – tenured Biomedicine and Health / Clinical Medical	300 (90)	10	19 (219)	13	0	3	M.K. Protein expression and gene amplification of EGFR and cyclin D1 in nodular melanoma	2	2	1/0
	Sciences							M.G. The role of transcription factor MITF in invasive malignant melanoma	0	0	
Marko Zelić https://bib.ir b.hr/lista- radova?autor =279265	Assist. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	75	11	26 (66)	6	0	2	D.K.	0	0	0/0
Luka Zaputović	Full Prof.	300	18	44	10	0	2	S.M.R.	0	0	0/0
Zaputović <u>https://bib.ir</u>	PhD – tenured			(139)				A.A. D.G.	0	0	
b.hr/lista- radova?autor =133542	Biomedicine and Health / Clinical Medical Sciences							The outcome of acute myocardial infarction after percutaneous coronary intervention with drug-coated stent or balloon			
								V.T. Serum levels of soluble adhesion molecules in patients with acute	0	0	



								coronary syndromes treated by coronary intervention with drug-coated stent or balloon			
Sanja Zoričić Cvek <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> <u>=212371</u>	Full Prof. PhD Biomedicine and Health / Basic Medical Sciences	300	11	15 (203)	8	1	0	L.Đ. The expression of osteoinductive proteins and their inhibitors during osteogenesis	2	3	1/0
Davor Želježić/ Institute for Medical Research and Occupational Health, Zagreb <u>https://bib.ir</u> <u>b.hr/lista-</u> <u>radova?autor</u> =222631	Scientific Adviser Biomedicine and Health / Basic Medical Sciences	(40)	22	142 (558)	16	0	2	M.T.Z. Examination of the degree of polymerization and genotoxicity of conventional and bioactive orthodontic adhesive systems	0	0	0/0
Josip Žunić https://bib.ir b.hr/lista- radova?autor =243926	Assist. Prof. PhD - associate position Biomedicine and Health / Clinical Medical Sciences	2 (105)	4	15 (22)	3	2	0	H.M.Č. M.B. The effect of different doses of infusion on the endothelial glycocalyx layer in patients treated by laparoscopic cholecystectomy	0	0	0/0
Gordana Župan https://bib.ir b.hr/lista- radova?autor =142160	Full Prof. PhD – tenured Biomedicine and Health / Basic Medical Sciences	300	6	18 (145)	12	0	3	P.M. J.R. Recurrent traumatic brain injury in mice: neurobiology and outcomes	0 2	0	0/0
Željko Župan https://bib.ir b.hr/lista- radova?autor =243046	Assoc. Prof. PhD Biomedicine and Health / Clinical Medical Sciences	150	14	32 (124)	9	0	3	M.M. V.T. D.M. S.G.Ž. The effect of a local anesthetic and clonidine on quiet skin period during and after spinal anesthesia	0 0 0	0 0 0	0/0

* Indicate if they come from outside HEI.

** Or another link showing acurate details of the works and the results of other scientific work.

*** The total current workload expressed in norm hours for all three levels of higher education (+ the workload on other HEI in parentheses).

A = number of scientific publications (books, articles, etc.) relevant to this area/field in the last five years, according to the Regulations on the Election to Scientific Titles (CROSBI update for a complete overview of the works).



B = number of citations of these works, if applicable, and specification of the source (e.g. WoS, Scopus, Google Scholar).

The first number in column B refers to the number of citations listed in column A between 2011 and 2015. The number in parentheses refers to the number of citations of all works of a given teacher in the period 2011-2015.

C = h-index (if applicable, specifying the source).