

HRVATSKA AKADEMIJA  
ZNANOSTI I UMJETNOSTI

ZAVOD ZA BIOMEDICINSKE ZNANOSTI  
U RIJECI



CENTAR ZA PROTEOMIKU

Rijeka, 02. travnja 2024.

## POZIV NA PREDAVANJE

Zadovoljstvo nam je pozvati vas na predavanje koje će se održati **03. svibnja 2024.** godine u **Vijećnici Medicinskog fakulteta u Rijeci od 13 do 14 sati.**

Predavač: **Prof. Matteo Iannacone, MD, PhD**

*Director, Division of Immunology, Transplantation, and Infectious Diseases, Professor of Pathology Head, Dynamics of Immune Responses, San Raffaele Scientific Institute & University, 20132 Milan, ITALY ([Matteo Iannacone lab](#)).*

Naslov i sažetak predavanja: ***Immune Surveillance of the Liver***

The liver's unique characteristics have a profound impact on the priming and maintenance of adaptive immunity. My talk will delve into the cellular circuits that regulate adaptive immune responses in the liver, with a specific focus on hepatitis B virus infection as an illustrative example. A key aspect highlighted is the liver's specialized role in priming CD8+ T cells, leading to a distinct state of immune hyporesponsiveness. Additionally, the influence of the liver's hemodynamics and anatomical features, particularly during liver fibrosis and cirrhosis, on the differentiation and function of adaptive immune cells is discussed. While the primary emphasis is on CD8+ T cells, recent findings regarding the involvement of B cells and CD4+ T cells in hepatic immunity will be also discussed. Furthermore, we address the challenges ahead and propose integrating cutting-edge techniques, such as spatial biology, and combining mouse models with human sample analyses to gain comprehensive insights into the liver's adaptive immunity. This understanding could pave the way for novel therapeutic strategies targeting infectious diseases, malignancies, and inflammatory liver conditions like nonalcoholic steatohepatitis and autoimmune hepatitis.

Akademik Stipan Jonjić

Izv. prof. dr. sc. Ilija Brizić