



SVEUČILIŠTE U RIJECI - MEDICINSKI FAKULTET
UNIVERSITY OF RIJEKA - FACULTY OF MEDICINE



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POZIV NA PREDAVANJE

Zadovoljstvo mi je pozvati vas na predavanje koje će se održati **13. veljače 2026.** godine u **Vijećnici Medicinskog fakulteta u Rijeci od 11:00 do 12:00 sati.**

Predavač: **Doc. Dr. Alexander Deutsch**
Division of Hematology, Medical University, Graz, Austria

Naslov predavanja: ***Nr4a1 functions as a tumor suppressor by regulating immunosuppressive conditions in aggressive lymphomas***

Sažetak predavanja: Aggressive lymphomas frequently relapse despite effective therapy, highlighting the need to better understand immune escape mechanisms. NR4A1 has been proposed as a tumor suppressor in lymphoma, but its role in immune regulation remains unclear. Using EμMyc-driven mouse models, we show that loss of Nr4a1 accelerates lymphomagenesis and promotes immune evasion. Nr4a1-deficient lymphomas exhibited rapid progression in immunocompetent hosts and developed a profoundly immunosuppressive tumor microenvironment characterized by increased PD-1/PD-L1/PD-L2 and CTLA-4/CD80/CD86 expression, reduced CD4⁺ and CD8⁺ T cell infiltration, and enrichment of regulatory T cells and M2 macrophages. T cells displayed an exhausted phenotype with co-expression of multiple immune checkpoints, accompanied by impaired CD8⁺ T cell-mediated lymphoma cell killing in vitro. Importantly, low NR4A1 expression in human DLBCL biopsies correlated with increased immune checkpoint expression. These findings identify NR4A1 as a key regulator of anti-tumor immunity in lymphoma.

Izv. prof. dr. sc. Ilija Brizić