

Odbrana doktorske disertacije Sofije J. Glamočlija Jekić

Imunomodulatorni efekat ekstracelularnih vezikula L1 larvi *Trichinella spiralis* na modelu respiratorne alergije kod BALB/c miševa

31.10.2025. u 14 časova

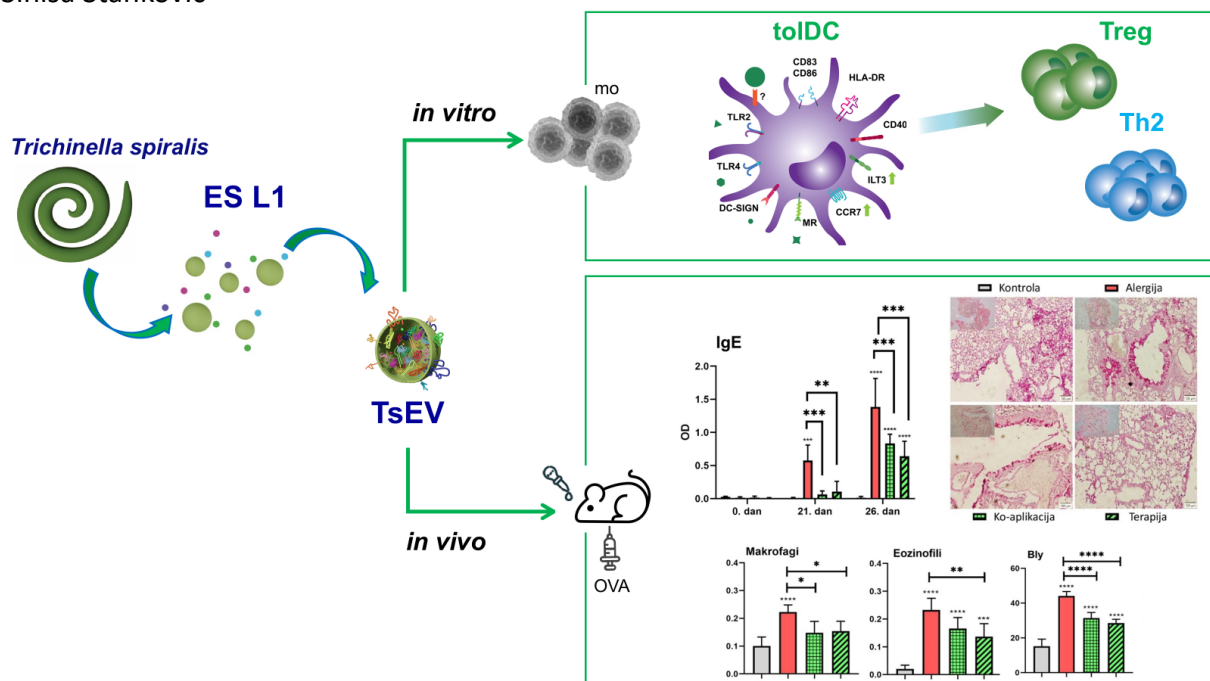
Svečana sala Instituta za primenu nuklearne energije INEP,
Banatska 31b

MENTORI

- dr Maja Kosanović, viši naučni saradnik, Univerzitet u Beogradu - Institut za primenu nuklearne energije INEP
- dr Biljana Božić Nedeljković, redovni profesor, Univerzitet u Beogradu - Biološki fakultet

KOMISIJA

- dr Marija Rakić, naučni saradnik, Univerzitet u Beogradu - Biološki fakultet
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- dr Nataša Radulović, naučni savetnik, Univerzitet u Beogradu - Institut za biološka istraživanja “Siniša Stanković”



- Ekstracelularne vezikule izolovane iz ekskretorno sekretornih produkata L1 larvi parazita *Trichinella spiralis* (TsEV), utiču na razvijanje tolerogenog fenotipa dendritskih ćelija koji ostaje stabilan pod inflamatornim uslovima
- DC kultivisane u prisustvu TsEV stimulišu ekspanziju Th2 i Treg u alogenoj ćelijskoj ko-kulturi
- U animalnom modelu respiratorne alergije izazvane ovalbuminom (BALB/c miševi), intranazalna primena TsEV smanjuje prisustvo inflamatornih ćelija i citokina u plućima i u slezini
- Intranazalna primena TsEV dovodi do smanjenja IgE, IgA, IgG1 i IgG2a antitela specifičnih za OVA u serumu miševa

Sofija J. Glamočlija Jekić PhD Thesis Defense

The immunomodulatory effect of extracellular vesicles from L1 larvae of *Trichinella spiralis* on a respiratory allergy model in BALB/c mice

October 31st 2025 at 2 p.m.

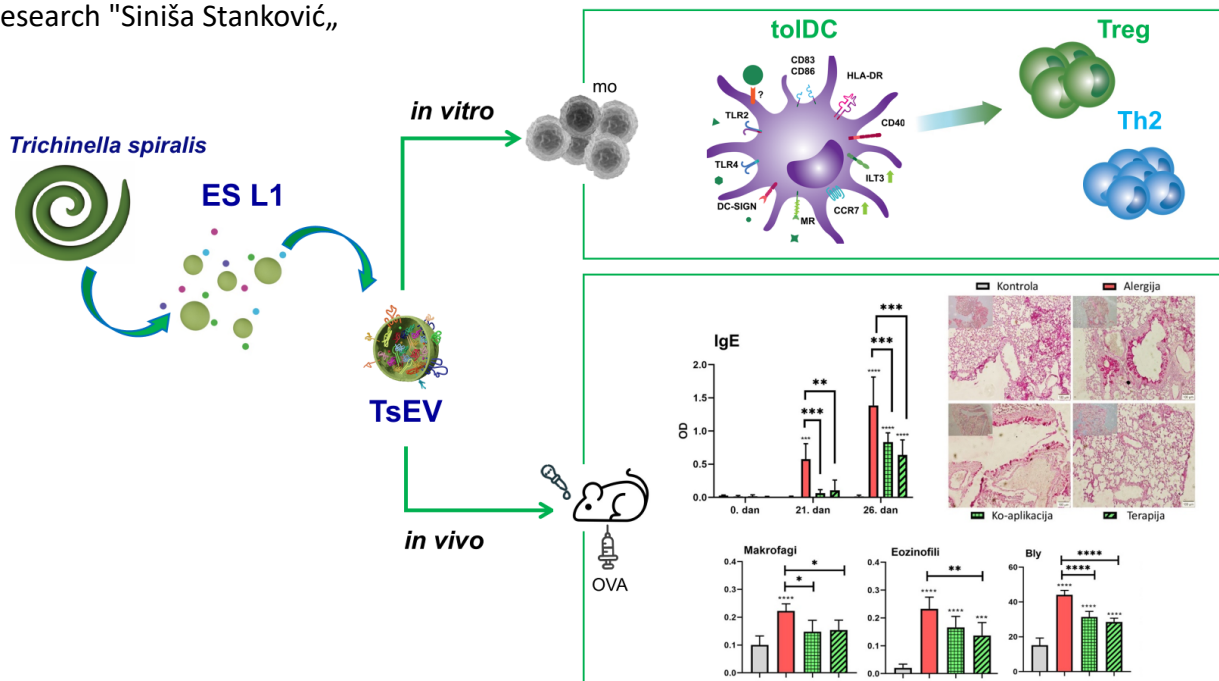
Ceremonial Hall at the Institute for the Application of Nuclear Energy INEP,
Banatska 31b

SUPERVISORS

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- dr Alisa Gruden-Movsesijan, principal research fellow, University of Belgrade – Institute for the Application of Nuclear Energy INEP
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- Extracellular vesicles isolated from excretory-secretory products of parasite *Trichinella spiralis* L1 larvae (TsEV) influence development of a tolerogenic dendritic cell phenotype that remains stable under inflammatory conditions
- DCs cultivated with TsEV stimulate the expansion of Th2 and Treg cells in an allogeneic co-culture
- In a murine model of respiratory allergy induced with ovalbumin using BALB/c mice, intranasal TsEV treatment reduces the presence of inflammatory cells and cytokines in the lungs and spleen
- Intranasal TsEV treatment leads to a decrease of IgE, IgA, IgG1, and IgG2a antibodies specific to OVA in mouse serum.