Aleksandra Inic-Kanada

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EMAIL	aleksandra.inic-kanada@meduniwien.ac.at
LANGUAGES	English, Serbo-Croatian, German
WEB	https://pii.meduniwien.ac.at/unsere-abteilungen/institut-fuer-spezifische-prophylaxe-und-tropenmedizin/forschung/vakzinologie-und-infektiologie/aleksandra-inic-kanada/
CHILDREN	Three
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MAIN AREA OF RESEARCH

chlamydial infection; vaccine against Chlamydia; innate and acquired resistance to infection; mucosal immunity; tolerance and mucosal vaccination; development of novel needle-free vaccine strategies; vaccine development, animal models

EDUCATION

2019	**HABILITATION IN IMMUNOLOGY AND VACCINOLOGY** Medical University of Vienna, Vienna, Austria
2009	**PHD IN BIOCHEMISTRY, FIELD OF IMMUNOLOGY** Belgrade University – Faculty of Chemistry, Belgrade, Serbia
1999	**MSC IN BIOCHEMISTRY, FIELD OF IMMUNOCHEMISTRY** Belgrade University – Faculty of Chemistry, Belgrade, Serbia
1996	**DIPL. BIOCHEMIST (EQUIVALENT TO MAGISTRA DER NATURWISSENSCHAFTEN IN AUSTRIA)**, Belgrade University – Faculty of Chemistry, Belgrade, Serbia

CAREER HISTORY

2025	**START OF IKV/TENURE TRACK POSITION**, Medical University of Vienna
2025	**ACCREDITED SENIOR SUPERVISOR FOR PHD STUDENTS**, Medical University of Vienna
since 2019	**SENIOR LECTURER AND GROUP LEADER**, Institute of Specific Prophylaxis and Tropical Medicine at MedUni Vienna
2016–2019	**LECTURER**, Institute of Specific Prophylaxis and Tropical Medicine at MedUni Vienna
2014–2019	**UNIV.-ASS. POSTDOC** (Ersatzkraft), Institute of Specific Prophylaxis and Tropical Medicine at MedUni Vienna
2014–2018	**TEAM LEADER AND DEPUTY SCIENTIFIC DIRECTOR**, Laura Bassi Centre of Expertise OCUVAC, Institute of Specific Prophylaxis and Tropical Medicine, Center of Pathophysiology, Infectiology & Immunology, Medical University of Vienna
2011–2013	**POSTDOC/SENIOR SCIENTIST**, LBCE OCUVAC, Institute of Specific Prophylaxis and Tropical Medicine, Center of Pathophysiology, Infectiology & Immunology, Medical University of Vienna
2010	**ASSISTANT PROFESSOR/SCIENTIFIC ASSOCIATE**, Ministry of Science, University of Belgrade, at the Institute of Virology, Vaccines and Sera, Belgrade, Serbia
09/2008–12/2010	**MATERNITY LEAVE** (Konstantin Kanada, born 30.09.2008)
10/2005–10/2006	**MATERNITY LEAVE** (Lara Kanada, born 05.10.2005)
12/2001–12/2002	**MATERNITY LEAVE** (Nikola Kanada, born 25.12.2001)

05/2001–12/2009	**SENIOR SCIENTIST**, Institute of Virology, Vaccines and Sera, Belgrade, Serbia
10/1999–04/2001	**ADMIN ASSISTANT**, The Organization for Security and Co-operation in Europe (OSCE), Priština, Kosovo (non-scientific position)
07/1996–09/1999	**RESEARCH ASSOCIATE**, Immunology Research Center "Branislav Janković", Belgrade, Yugoslavia

THIRD-PARTY FUNDING AS PI

- **2025-2029** Unveiling a local immune response in chlamydial infection, PAT6619324, **FWF**
- **2025-2029** Uncovering vaccine immune response dynamics in obesity, PAT5452224, **FWF**
- **2024-2026** Developing a predictive antibody test for early detection of tubal factor infertility and trachoma, **OeAD**
- **2023-2024** Vaccination efficacy in elderly: a protein-energy malnutrition model in an old mice cohort, **OeAD**
- **2016** Guinea pig infection model: infections with *C. caviae* – treatment with wIRA, **Erwin Brown Foundation**

PATENT

Vaccine formulation for ocular immunization
EU Patent Office, patent number: 10709778, US Patent Office, patent number: 2988777 (shared)

FELLOWSHIPS

September 2004	***Environment and Immunology: from allergic to infectious diseases in Eastern Europe***, University of Rome "Tor Vergata", Frascati, Italy
March 2004	***In vitro production of Monoclonal Antibodies***, Bilthoven, The Netherlands, European Centre for the validation of alternative methods and The Netherlands Vaccine Institute, Bilthoven, The Netherlands
February 2004	***New Approaches of QC of Vaccines***, Bilthoven, The Netherlands European Centre for the validation of alternative methods and The Netherlands Vaccine Institute, Bilthoven, The Netherlands

PROFESSIONAL MEMBERSHIPS

Austrian Society for Vaccinology • Austrian Society for Immunology and Allergology • Chlamydia Basic Research Society • Serbian Society of Immunology • Serbian Proteomics Society • International Society for Extracellular Vesicles

EDITORIAL AND REVIEWER ACTIVITIES

Frontiers in Microbiology • Immunology Letters • Journal of Immunology Research • PLOS One • Vaccine • npj Vaccines • Journal of Infectious Diseases • Frontiers in Immunology • PeerJ • Immunologic Research • Frontiers in Public Health • PLOS NTD

ORGANIZATIONAL ACTIVITIES

A member of various scientific, jury, and organizational committees, including the CePII Retreat (2019–2024).

10 MOST RELEVANT PUBLICATIONS

1. Frohns, A., Stojanovic, M., Barisani-Asenbauer, T., Kuratli, J., Borel, N., **Inic-Kanada, A.** Effects of water-filtered infrared A and visible light (wIRA/VIS) radiation on heat- and stress-responsive proteins in the retina and cornea of guinea pigs. (2021) J Photochem Photobiol B, 224: 112306. **doi:10.1016/j.jphotobiol.2021.112306**

2. **Inic-Kanada, A.**, Stojanovic, M., Miljkovic, R., Stein, E., Filipovic, A., Frohns, A., Zöller, N., Kuratli, J., Barisani-Asenbauer, T., Borel. N. Water-filtered Infrared A and visible light (wIRA/VIS) treatment reduces *Chlamydia caviae*-induced ocular inflammation and infectious load in a Guinea pig model of inclusion conjunctivitis. (2020) J Photochem Photobiol B, 209: 111953.
doi:10.1016/j.jphotobiol.2020.111953

3. Ghasemian E., **Inic-Kanada A.**, Collingro A., Mejdoubi L., Alchalabi H., Keše D., et al. Comparison of genovars and *Chlamydia trachomatis* infection loads in ocular samples from children in two distinct cohorts in Sudan and Morocco. PLoS Negl Trop Dis. 2021;15(8):e0009655.
doi: 10.1371/journal.pntd.0009655

4. Stojanovic, M., Lukic, I., Marinkovic, E., Kovacevic, A., Miljkovic, R., Tobias, J., Schabussova, I., Zlatović, M., Barisani-Asenbauer, T., Wiedermann, U., **Inic-Kanada, A.** Cross-Reactive Effects of Vaccines: Heterologous Immunity between Tetanus and Chlamydia. (2020) Vaccines, 8.
doi: 10.3390/vaccines8040719

5. Belij-Rammerstorfer S., **Inic-Kanada A.**, Stojanovic M., Marinkovic E., Lukic I., Stein E., et al. Infectious dose and repeated infections are key factors influencing immune response characteristics in guinea pig ocular chlamydial infection. Microbes and infection / Institut Pasteur. 2015.
doi: 10.1016/j.micinf.2015.12.001

6. **Inic-Kanada A.**, Stein E., Stojanovic M., Schuerer N., Ghasemian E., Filipovic A., Marinkovic E., Kosanovic D., Barisani-Asenbauer T. Effects of Iota-Carrageenan on ocular *Chlamydia trachomatis* infection in vitro and in vivo. (2018) J Appl Phycol. 2018;30(4):2601-2610.
doi: 10.1007/s10811-018-1435-0

7. Rajić, J.*, **Inic-Kanada, A.***, Stein, E., Dinić, S., Schuerer, N., Uskoković, A., Ghasemian, E., Mihailović, M., Vidaković, M., Grdović, N., Barisani-Asenbauer, T. *Chlamydia trachomatis* infection is associated with E-Cadherin promoter methylation, downregulation of E-Cadherin expression, and increased expression of fibronectin and α-SMA—implications for epithelial-mesenchymal transition. (2017) Frontiers in Cellular and Infection Microbiology, 7 (JUN), art. no. 253, p. 253. (*equaly contributed first author)
doi: 10.3389/fcimb.2017.00253

8. **Inic-Kanada, A.***, Stojanovic, M. *, Marinkovic, E., Becker, E., Stein, E., Lukic, I., Djokic, R., Schuerer, N., Hegemann, J.H., Barisani-Asenbauer, T. A probiotic adjuvant lactobacillus rhamnosus enhances specific immune responses after ocular mucosal immunization with chlamydial polymorphic membrane protein C. (2016) PLoS ONE, 11 (9), art. no. e0157875 (*equaly contributed first author)
doi: 10.1371/journal.pone.0157875

9. **Inic-Kanada, A.**, Stojanovic, M., Schlacher, S., Stein, E., Belij-Rammerstorfer, S., Marinkovic, E., Lukic, I., Montanaro, J., Schuerer, N., Bintner, N., Kovacevic-Jovanovic, V., Krnjaja, O., Mayr, U.B., Lubitz, W., Barisani-Asenbauer, T. Delivery of a chlamydial adhesin N-PmpC subunit vaccine to the ocular mucosa using particulate carriers. (2015) PLoS ONE, 10 (12), art. no. e0144380.
doi: 10.1371/journal.pone.0144380

10. Barisani-Asenbauer, T.*, **Inic-Kanada, A.***, Belij, S. Marinkovic, E., Stojicevic, I., Montanaro, J., Stein, E., Bintner, N., Stojanovic, M. (2013) 'The Ocular Conjunctiva as a Mucosal Immunization Route: A Profile of the Immune Response to the Model Antigen Tetanus Toxoid', PLOS ONE, 8: e60682. (*equaly contributed first author)
doi: 10.1371/journal.pone.0060682