

## Workshop

### MORPHOLOGICAL STUDIES IN AUTOIMMUNE DISEASE RESEARCH

Rīga Stradiņš University, Institute of Microbiology and Virology  
5 Rātsupītes Street, Riga, Latvia and remotely via *Zoom* platform

**13<sup>th</sup> and 14<sup>th</sup> October 2022**

Work package 4 leader Professor Valērija Groma

### AGENDA

Day/Date	Time GMT+3	Activity
<b>Thursday, 13 October</b>	9.00 – 10.00	Registration and welcome coffee
	10.00 – 10.15	Opening & Welcome <b>Modra Murovska</b> , MD, Ph.D., Assoc. Prof., Project Coordinator, Institute of Microbiology and Virology, RSU, Latvia <b>Valērija Groma</b> , MD, Ph.D., Prof., WP4 Leader, Institute of Anatomy and Anthropology, RSU, Latvia
	Session I	The role of infection in the pathogenesis of autoimmune disease
	10.15 – 10.45	<b>Boris Gilburd</b> , MD, Ph.D., Zabudowicz Center for Autoimmune Diseases, Sheba Medical Center, Tel HaShomer, Israel SARS-COV-2 infection and its persistence in the human body
	10.45 – 11.15	<b>Roberta Rizzo</b> , MD, Ph.D., Prof., Department of Chemical, Pharmaceutical and Agricultural Sciences, University of Ferrara, Italy Role of HLA-G molecules in SARS-CoV-2 infection
	11.15 – 11.45	<b>Daria Bortolotti</b> , Ph.D., Asst. Prof., Department of Chemical, Pharmaceutical and Agricultural Sciences, University of Ferrara, Italy Alteration during SARS-CoV-2 gestational infections
	11.45 – 12.00	<i>Coffee Break</i>
	12.00 – 12.30	<b>Halpert Gilad</b> , Ph.D., Leading Researcher, Department of Microbiology and Clinical Immunology, Sackler Faculty of Medicine, Tel Aviv University, Israel Improving drug delivery using extracellular vesicles for the management of autoimmune (and infection?) diseases
	12.30 – 12.45	<b>Maksims Čistjakovs</b> , Researcher, Institute of Microbiology and Virology, RSU, Latvia Viruses and autoimmune thyroiditis

	12.45 – 13.00	<b>Liba Sokolovska</b> , Ph.D. student, Institute of Microbiology and Virology, RSU, Latvia GPCRs encoded by HHV-6 – possible role in autoimmunity
	13.00 – 14.00	<i>Lunch</i>
	14.00 – 14.15	<b>Nityanand Jain</b> , Undergraduate student, Institute of Anatomy and Anthropology, RSU, Latvia HHV-6-mediated immune cell differentiation in the brain
	14.15 – 14.45	<b>Johannes Wieland</b> , Researcher, Division Experimental Anesthesiology, Ulm University Hospital, Department of Anaesthesiology and Intensive Care, Ulm, Germany STEM microscopy analysis of ZIKA virus infected glioblastoma cells
	Session II	Shared knowledge and competence in exploring autoimmune disease. Part I
	14.45 – 15.15	<b>Aleksejs Derovs</b> , MD, Ph.D., Assoc. Prof., Department of Internal Diseases, RSU, Latvia Possibilities and spectra of data acquisition exploring autoimmune diseases of the GI tract
	15.15 – 15.45	<b>Miri Blank</b> , Ph.D., Prof., Department of Microbiology and Clinical Immunology, Sackler Faculty of Medicine, Tel Aviv University, Israel Helminth product TPC modulate the innate immune recognition
	15.45 – 16.15	<i>Discussion, Q &amp; A</i>
	16.15 – 17.00	<i>Coffee Break</i>
	17.00 – 18.00	Transfer to RSU Anatomy Museum, Kronvalda Boulevard 9, and tour at the Museum, <i>Exhibition “Foetal Attraction” – an Intervention in Ceramic by Paddy Hartley</i>

<b>Day/Date</b>	<b>Time GMT+3</b>	<b>Activity</b>
<b>Friday, 14 October</b>	9.00 – 9.30	Registration
	9.30 – 10.00	<b>Yehuda Shoenfeld</b> , Professor, Medical Research Infrastructure Development and Health Services fund by the Sheba Medical Center, Israel Autoimmune autonomic nervous system imbalance
	Session III	Diagnostics and therapies for autoimmune disease
	10.00 – 10.30	<b>Elga Bataraga</b> , MD, Ph.D., Asist. Prof., Department of Dermatology, RSU, Latvia Psoriasis – autoimmune pathogenic traits and current targeted treatments
	10.30 – 11.00	<b>Mārtiņš Kapickis</b> , MD, Ph.D., Latvian Microsurgery Center, Latvia Hand surgery in rheumatoid arthritis patients
	11.00 – 11.30	<b>Mihails Tarasovs</b> , Sertified rheumatologist, RSU, Latvia Assessment of cognitive dysfunction in patients with rheumatic disease

	11.30 – 12.00	<b>Jānis Mednieks</b> , Certified neurologist, RSU, Latvia Advanced MRI analysis of the brain in rheumatic patients
	12.00 – 12.15	<i>Coffee Break</i>
	Session IV	Shared knowledge and competence in exploring autoimmune disease. Part II
	12.15 – 12.30	<b>Vladimirs Naumovs</b> , Psychiatry Resident, RSU, Latvia Body responses to inflammation: tissue mediators and signaling to the brain
	12.30 – 13.00	<b>Uldis Doniņš</b> , Dr.sc.ing., Head of the Unit, Information Systems Division, IT Department, RSU, Latvia Artificial intelligence applications in biomedicine and healthcare
	13.00 – 13.30	<b>Šimons Svirskis</b> , MD, Ph.D., Leading Researcher, Institute of Microbiology and Virology, RSU, Latvia Modern data processing tools and algorithms for morphology data analysis
	13.30 – 14.30	<i>Lunch</i>
	14.30 – 15.00	<b>Marion Schneider</b> , PhD, Prof., Division Experimental Anesthesiology, Ulm University Hospital, Department of Anaesthesiology and Intensive Care, Ulm, Germany Contribution of M1 and M2 macrophages to HIV infection explored using electron microscopy
	15.00 – 15.15	<b>Lauma Ieviņa</b> , Master's Student, Institute of Microbiology and Virology, RSU, Latvia Structural changes in peripheral nervous system in fibromyalgia
	15.15 – 15.30	<b>Sofija Semenistaja</b> , Rheumatology Resident, Ph.D. student, RSU, Latvia Anatomy of joints in rheumatic disease and beyond
	15.30 – 15.45	<b>Silvia Beltrami</b> , Ph.D. student, Department of Chemical, Pharmaceutical and Agricultural Sciences, University of Ferrara, Italy HHV-6 infection in IUGR
	15.45 – 16.00	<b>Giovanna Schiuma</b> , Ph.D. student, Department of Chemical, Pharmaceutical and Agricultural Sciences, University of Ferrara, Italy SARS-CoV-2 infection and coagulopathies
	16.00 – 16.30	<i>Discussion, Q &amp; A</i>
	16.30 – 16.45	Closing remarks