

## Summer School

### New trends in molecular and immunological detection methodology of persistent viral infections

Rīga Stradiņš University, 16 Dzirciema Street, Riga  
Hippocrates Lecture Theatre, Block A  
and remotely via *Zoom* platform  
**11th, 12th and 15th July 2022**

Rīga Stradiņš University, Institute of Microbiology and Virology, 5 Rātsupītes Street, Riga  
**13th and 14th July 2022**

Summer School leader PhD, Lead Researcher Zaiga Nora-Krūkle

## AGENDA

Day/ Date	Time GMT+3	Activity
<b>Monday, 11 July</b>	08.30 – 09.00	Registration
	09.00 – 09.20	Opening & Welcome <b>MD, PhD Modra Murovska</b> , Assoc. Prof., Project Coordinator, Institute of Microbiology and Virology, RSU, Latvia
	<b>Session I</b>	
	09.20 – 10.20	Lecture 1 – Viruses and autoimmunity <b>Prof. Yehuda Shoenfeld</b> , President of Ariel University, Zabludowicz Center for Autoimmune Diseases, Sheba Medical Center, Tel-Hashomer, Israel
	10.20 – 11.20	Lecture 2 – Emerging Viral Infections 1 <b>Prof. Dario Di Luca</b> , Dept. Medical Sciences, University of Ferrara
	11.20 – 11.30	<i>Coffee break</i>
	11.30 – 12.30	Lecture 3 – Emerging Viral Infections 2 <b>Prof. Dario Di Luca</b> , Dept. Medical Sciences, University of Ferrara
	12.30 – 13.30	<i>Lunch</i>
	13.30 – 14.30	Lecture 4 – Innate immune control of viral infections <b>Prof. Roberta Rizzo</b> , University of Ferrara, Dept. Chemical, Pharmaceutical and Agricultural Sciences

	14.30 – 15.30	Lecture 5 – Phagocytosis of inflammatory macrophages in autoimmune diseases <b>Prof. Marion Schneider</b> , Head of the Division Experimental Anesthesiology, Ulm University Hospital, Department of Anaesthesiology and Intensive Care, Ulm, Germany	
	15.30 – 16.30	<i>Coffee break / Q&amp;A, discussions and networking</i>	
	Closing remarks of Day 1		
<b>Tuesday, 12 July</b>	<b>Session II</b>		
	09.00 – 10.00	Lecture 6 – Big Data analyses <b>Prof. Howard Amital</b> , Sackler Faculty of Medicine, Tel Aviv University; Head of the Department of Medicine B, Zabludowicz Center for Autoimmune Diseases, Sheba Medical Center, Tel HaShomer, Israel	
	10.00 – 11.00	Lecture 7 – Cytokines and P2X7 Polymorphisms in Fibromyalgia patients <b>Prof. Marion Schneider</b> , Head of the Division Experimental Anesthesiology, Ulm University Hospital, Department of Anaesthesiology and Intensive Care, Ulm, Germany	
	11.00 – 11.15	<i>Coffee break</i>	
	11.15 – 11.55	Lecture 8 – Principles of biomarker detection <b>Kunal Garg</b> , PhD student, Division Experimental Anesthesiology, Ulm University Hospital, Department of Anaesthesiology and Intensive Care, Ulm, Germany	
	11.55 – 12.15	Lecture 9 – Ido and kynurenine <b>MD Daniel Alexander Bizjak</b> , Division of Sports and Rehabilitation Medicine, Department of Medicine, Ulm University Hospital, Ulm, Germany	
	12.15 – 12.30	Q&A	
	12.30 – 13.30	<i>Lunch</i>	
	13.30 – 14.30	Lecture 10 – The latest methods of cell analysis <b>MD, PhD Boris Gilburd</b> , Zabludowicz Center for Autoimmune Diseases, Sheba Medical Center, Tel HaShomer, Israel	
	14.30 – 15.30	Lecture 11 – Mechanisms leading to autoimmune diseases <b>Prof. Miri Blank</b> , Zabludowicz Center for Autoimmune Diseases, Sheba Medical Center, Tel HaShomer, Israel	
	15.30 – 16.30	<i>Coffee break / Q&amp;A, discussions and networking</i>	
		Closing remarks of Day 2	
	<b>Wednesday, 13 July; Thursday, 14 July</b>	<b>Practical work in the laboratory</b>	
09.30 – 9.45		Round of Introductions (participants)	
	09.45 – 16.30	Workshop 1 – Practical work in the laboratory (BD Accuri C6 Plus) Use of flow cytometry for cell immunophenotyping. Practical use of FACS systems. In particular, acquisition and data analysis. <b>Prof. Roberta Rizzo</b> , University of Ferrara, Dept. Chemical, Pharmaceutical and Agricultural Sciences	

	09.45 – 16.30	Workshop 2 – Isolation of IgG and Antigen-specific immunoglobulins using Dynal Bead procedures <b>Prof. Marion Schneider</b> , Head of the Division Experimental Anesthesiology, Ulm University Hospital, Department of Anaesthesiology and Intensive Care, Ulm, Germany <b>Prof. Miri Blank</b> , Zabludowicz Center for Autoimmune Diseases, Sheba Medical Center, Tel HaShomer, Israel
	09.45 – 16.30	Workshop 3 – Quantitative, multiplex detection of cytokines using quantitative array platform on glass slide <b>PhD Gilad Halpert</b> and <b>MD, PhD Boris Gilburd</b> , Zabludowicz Center for Autoimmune Diseases, Sheba Medical Center, Tel HaShomer, Israel
	11.00 – 11.20	<i>Coffee break</i>
	12.30 – 13.30	<i>Lunch</i>
	<b>Session III</b>	
<b>Friday, 15 July</b>	09.00 – 10.00	Lecture 12 – The potential pathogenic effect of autoantibodies in acute/post COVID-19 patients <b>PhD Gilad Halpert</b> , Zabludowicz Center for Autoimmune Diseases, Sheba Medical Center, Tel HaShomer, Israel
	10.00 – 11.00	Lecture 13 – EBV, molecular mimicry and autoimmune diseases <b>Prof. Miri Blank</b> , Zabludowicz Center for Autoimmune Diseases, Sheba Medical Center, Tel HaShomer, Israel
	11.15 – 12.00	Round table New trends in molecular and immunological detection methodology of persistent viral infections
	12.00 – 13.00	<i>Lunch</i>
	13.00 – 14.00	Future collaboration plans
		Closing remarks and Feedback