

Programme UCMR Day 18 January 2024

8:20 – 8:50	REGISTRATION and MOUNTING OF POSTERS
8:50 – 8:55	WELCOME! Patrik Danielson, Dean at the Faculty of Medicine, Umeå University
8:55 – 9:15	UCMR UPDATE Yaowen Wu, Director of UCMR
9:15 – 10:00	KEYNOTE LECTURE 1 <i>Chair: Max Renner</i> Visualizing virus infection <i>in situ</i> by cryoET Peijun Zhang, Professor of structural biology, University of Oxford
10:00 – 10:30	<i>Coffee break</i>
10:30 – 11:10	SHORT TALKS 1 (10 minutes talks) <i>Chair: André Mateus</i>
	Host response to Langkat virus infection at the blood-cerebral spinal fluid interface <u>Amanda Lappalainen</u> , Department of Clinical Microbiology and Laboratory for Molecular Infection Medicine Sweden (MIMS), Umeå University
	Regulation of morphological features and metabolic adaptations by the prokaryotic maintenance respiration share <u>Ashish Verma</u> , Department of Ecology and Environmental Science and Umeå Marine Sciences Centre, Umeå University
	Poster #27 The role of membrane complexity and heparan sulfate in the early entry stages of SARS-CoV-2 variants <u>Dario V. Conca</u> , Department of Clinical Microbiology and Wallenberg Centre for Molecular Medicine (WCMM), Umeå Centre for Microbial Research (UCMR), Umeå University
11:10 – 11:20	<i>Stretch your legs</i>
11:20 – 12:00	SHORT TALKS 2
	Intravenous immunoglobulin therapy for COVID-19 in immunocompromised patients: a retrospective cohort study <u>Johan Rasmuson</u> , Department of Clinical Microbiology, Umeå University

		<p>A distinctive family of L,D-transpeptidases catalyzing L-Ala-mDAP crosslinks in Alpha and Betaproteobacteria</p> <p><u>Gabriel Torrens</u>, Department of Molecular Biology and Laboratory for Molecular Infection Medicine Sweden, Umeå Centre for Microbial Research (UCMR), SciLifeLab, Umeå University</p>
		<p>Co-infection of HAdV-F41 and AAV-2 as a possible aetiology behind acute hepatitis of unknown origin in children</p> <p><u>Elin Hahlin</u>, Department of Clinical Microbiology, Umeå University</p>
		<p>12:00 – 13:00</p> <p>LUNCH</p>
		<p>13:00 – 13:30</p> <p>ELEVATOR PITCHES (<i>3 minutes talks</i>)</p> <p><i>Chair: Annasara Lenman</i></p>
	Poster #1	<p>Interaction of neutrophils with breast cancer cells and fibroblast in a co-culture model</p> <p><u>Anna Thunström Salzer</u>, Department of Clinical Microbiology, Umeå University</p>
	Poster #2	<p>Breaking Barriers: A first glimpse of a Gram-positive type 4 Secretion system and a characterization of its cell-wall remodeling enzyme</p> <p><u>Josy ter Beek</u>, Department of Medical Biochemistry and Biophysics and Wallenberg Centre for Molecular Medicine, Umeå University</p>
	Poster #3	<p>Neutrophil extracellular traps as a driving force behind severe COVID-19</p> <p><u>Emelie Backman</u>, Department of Clinical Microbiology and Umeå Centre for Microbial Research (UCMR), Umeå University</p>
	Poster #4	<p>Ribosome clustering and surface layer reorganization in the microsporidian host-invasion apparatus</p> <p><u>Himanshu Sharma</u>, Department of Molecular Biology and Department of Medical Biochemistry and Biophysics, Laboratory for Molecular Infection Medicine Sweden (MIMS), Centre for Microbial Research (UCMR), Science for Life Laboratory, Umeå University</p>
	Poster #5	<p>Deciphering heterogeneous populations of infecting bacteria with a novel bacterial single-cell RNA-seq method</p> <p><u>Joram Kiriga Waititu</u>, Department of Molecular Biology and Umeå Centre for Microbial Research (UCMR), Integrated Science Lab (IceLab), Umeå University</p>
	Poster #6	<p>High content screening of natural compounds against Chikungunya virus infection identifies a steroidal lactone withaferin A as an antiviral agent</p>

		<u>Kiran Bala Sharma</u> , Regional Centre for Biotechnology, Faridabad, India, and Department of Medical Biochemistry and Biophysics, Umeå University
	Poster #7	A shield against the mutants: Effects of different vaccine regimens against novel SARS-CoV-2 variants on the antibody levels and survival of nursing home residents <u>Remigius Gröning</u> , Department of Clinical Microbiology, Umeå University
	Poster #8	Chasing Better Drug-like Properties and Challenging Resistance Development By Increasing 3D Complexity of 2-Pyridone Antibiotics <u>Victor Hellgren</u> , Department of Chemistry, Umeå University
	Poster #9	How infection with respiratory syncytial virus alters the mechanics of live Hep-2 cells <u>Sarah F. Verbeek</u> , Department of Clinical Microbiology and Wallenberg Centre for Molecular Medicine, Umeå University
	Poster #10	The complex interplay between alphaviruses and cells: identification of host factors and viral evolution <u>Tessy A.H. Hick</u> , Department of Clinical Microbiology and Umeå Centre for Microbial Research (UCMR), Wallenberg Centre for Molecular Medicine (WCMM), Umeå University
	13:30 – 13:40	<i>Stretch your legs</i>
	13:40 – 14:20	SHORT TALKS 3
		<i>In vitro</i> reconstitution reveals membrane clustering and double-stranded RNA recruitment by the enteroviral AAA+ ATPase 2C <u>Kasturika Shankar</u> , Department. of Medical Biochemistry and Biophysics and Wallenberg Centre for Molecular Medicine, Molecular Infection Medicine Sweden, Umeå University
		Assessing the behavior of the genotoxin-producing Salmonella enterica in pro-carcinogenic mouse models <u>María López Chiloeches</u> , Department of Molecular Biology and Umeå Centre for Microbial Research (UCMR), Umeå University
	Poster #28	Simultaneous Membrane and RNA Binding by Tick-Borne Encephalitis Virus Capsid Protein <u>Pulkkinen LIA</u> , Department of Medical and Translational Biology, Umeå University
	14:20 – 16:00	POSTER WALKS and Coffee and Cake

	<p>Six groups led by PIs for organised walks (ca 35 min)</p> <p><i>Posters are shown in Brashörnan</i></p> <p><i>Coffee and cake are served in the Lounge</i></p>
16:00 – 16:45	<p>PANEL DISCUSSION – UCMR 20 YEARS</p> <p><i>Moderator:</i></p> <p>Jennie Ekbeck, former CEO Umeå Biotech Incubator, Business coach LEAD</p> <p><i>Panel members:</i></p> <p>Fredrik Almqvist, Director of UCMR</p> <p>Yaowen Wu, Director of UCMR 2020-2023</p> <p>Bernt Eric Uhlin, Director of UCMR 2008-2019</p> <p>Carl-Henrik Heldin, Chair of UCMR Executive Board 2009-2021</p> <p>Alice Kempe, Chair at Kempestiftelserna</p>
16:45 – 17:00	Post your thoughts on UCMR!
17:00 – 17:45	<p>KEYNOTE LECTURE 2</p> <p><i>Chair: Oliva Wesula Lwande</i></p> <p>It is in your DNA – How previous exposures to infections are reflected in DNA methylation patterns</p> <p>Maria Lerm, Professor in medical microbiology, Linköping University</p>
17:45 – 18:00	<p>CONCLUDING REMARKS and short talk/poster reward</p> <p><i>Chair: Teresa Frisan</i></p>
<i>18:00 – 18:30</i>	<p><i>Reception with mingle</i></p> <p><i>The reception takes place in the Lounge</i></p>
<i>18:30 – 21:00</i>	<p>DINNER</p> <p><i>The dinner takes place in the Universum restaurant</i></p>