

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 (<i>10 minutes talks</i>) <i>Chair: André Mateus</i>
		Host response to Langat 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

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

		<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 <i>Salmonella enterica</i> 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

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