

9th European Rotavirus Biology Meeting

2nd - 4th
october
2024

Venue: Botanical Garden of
Valencia, Auditori Joan Plaça



PROGRAM PROPOSAL



Wednesday, October 2nd 2024

17:00 – 18:30	Registration	
18:30	Opening and Introductory Remarks	Javier Buesa / Jesús Rodríguez
18:50	Honorary lecture: My 40-years with rotavirus: some highlights.	Lennart Svensson , University of Linköping, Sweden
19:30	Welcome Reception and Networking	Wine and cheese

Thursday, October 3rd 2024

8:00-9:00	Registration	
Session 1. Rotavirus epidemiology. Moderators: Javier Buesa / Jelle Matthijssens		
9:00	K1: Rotavirus vaccines: real-world effectiveness, real-world challenges	Ben Lopman , Emory University, USA
9:30	O1. Uninterrupted Surveillance for rotavirus in Palermo, Italy, in pre- and post-vaccine era (1985-2023)	Floriana Bonura , University of Palermo, Palermo, Italy
9:45	O2. Age-specific immunity to rotavirus and the risk of disease in the pre- and post-rotavirus vaccination era: an observational, sero-epidemiological study in the UK	Daniel Hungerford , University of Liverpool, Liverpool, UK
10:00	O3. Bovine rotavirus in South Africa: surveillance, genome characterisation and cell culture adaptation	Nikita Barron , University of the Free State, Bloemfontein, South Africa
10:15	O4. 14-Year experience of national reference center for rotavirus A in Belgium: unusual dominance of equine-like G3P[8] genotype after the pandemic	Mustafa Karatas , KU Leuven, Leuven, Belgium
10:30	O5. Epidemiology of rotavirus infection in Mozambique: a 8-year analysis before and after Rotarix® vaccine introduction	Nilsa De Deus , Instituto Nacional de Saúde, Maputo, Mozambique
10:45-11:15	Coffee break and poster session	



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Session 2. Rotavirus replication. Moderators: Catherine Eichwald / Khuzwayo Jere		
11:15	K2. Unraveling rotavirus particle proteolytic activation	Daniel Luque , The University of New South Wales, Sydney, Australia
11:45	O6. Significance of cellular lipids for the replication of rotaviruses and other RNA viruses	Ulrich Desselberger , University of Cambridge, Cambridge, UK.
12:00	O7. Interaction with extracellular vesicles increases rotavirus cell tropism.	Pavel Iša , UNAM, Cuernavaca, Mexico
12:15	O8. The recruitment of TRiC chaperonin in rotavirus viroplasm correlates with virus replication.	Catherine Eichwald , University of Zurich, Zurich, Switzerland
12:30	O9. Characterization of viroplasm-like structures by co-expression of NSP5 and NSP2 across rotavirus species A to J	Melissa Lee , University of Zurich, Zurich, Switzerland
12:45	O10. The Role of VP2 in the formation of viroplasm-like structures across rotavirus species A to J.	Ariana Cosic , University of Zurich, Zurich, Switzerland
13:00	O11. Serial passaging of recombinant human/simian rotavirus reassortants leads to mutation-associated improvement of replication	Roman Valusenko-Mehrkens , German Federal Institute for Risk Assessment, Berlin, Germany
13:15-14:30	Lunch	

Session 3. Host genetics and gut microbiota. Moderators: Johan Nordgren / Jesús Rodríguez		
14:30	K3. Genetic resistance to rotavirus – an evolutionary history	Johan Nordgren , Linköping University, Sweden
15:00	K4. Glycans as the nexus between intestinal viruses, the gut microbiota and the host	Jesús Rodríguez-Díaz , University of Valencia, Spain
15:30	O12. Molecular mechanisms of glycan recognition by a bovine rotavirus C strain	Noemi Navarro-Lleó , University of Valencia, Spain



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15:45	O14. Impact of rotavirus vaccines on prevention of antimicrobial usage and antimicrobial resistance gene abundance in 0-2 years olds in Ghana and Zambia	Gonçalo J Piedade , Amsterdam University Medical Center, The Netherlands
16:00	O15. The role of microbiota-derived tryptophan metabolites on rotavirus infection and replication	Nurul Wirusanti , Amsterdam University Medical Center, The Netherlands
16:30-17:30	Coffee and poster session	

Session 4. Rotavirus pathophysiology. Moderator: Jesús Rodríguez

17:30	K5. Rotavirus illness: diarrhea and beyond	Marie Hagbom , Linköping University, Sweden
18:00	K6. Human intestinal enteroid culture are models for advacing rotavirus vaccines	Sasirekha Ramani , Baylor College of Medicine, Houston, TX
18:30	O16. NSP4 induces secretion of peptide YY From L-cells and changes in dopamine receptor D2 expression of enterochromaffin cells	Magdalena Neijd , Linköping University, Sweden
18:45	O17. Looking at rotavirus infection with new eyes: whole-issue 3D imaging reveals novel insights	Arash Hellysaz , Linköping University, Sweden

Congress dinner

20:30	Congress dinner at: BRASSERIE RESTAURANTE ATMOSPHERE
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Friday, October 4th 2024

Session 5. Reverse Genetics. Moderators: John Patton / Ulrich Desselberger		
9:00	K7: Replication of the rotavirus genome: secrets revealed by reverse genetics	John Patton , Indiana University, Bloomington, USA
9:30	O18. Modular reverse genetics system for the generation of human/simian rotavirus reassortants in absence of untranslated region sequence information	Roman Valusenko-Mehrkens , German Federal Institute for Risk Assessment, Berlin, Germany
9:45	O19. Development of reverse genetics systems for contemporary rotavirus strains	Anthony J Snyder , Indiana University, Bloomington, USA
10:00	O20. Generation of a HIBIT-based reporter rotavirus to monitor difficult-to-rescue strains.	Ruan Jacobs , University of the Free State, Bloemfontein, South Africa
10:15-10:45	Coffee and poster session	

Session 6. Rotavirus vaccines. Moderators: Lennart Svensson / Miren Iturriza		
10:45	K8. Rotavirus vaccines, successes and challenges	Miren Iturriza-Gomara , GSK Vaccines Institutes for Global Health, Siena, Italy
11:15	O21. Development of assays to evaluate immunogenicity of next-generation rotavirus vaccine candidates	Elena Morandi , GSK Vaccines Institutes for Global Health, Siena, Italy
11:30	O22. Assessing a multivalent vaccine containing VP8* proteins from different rotavirus genotypes in mice	Roberto Cárcamo-Calvo , University of Valencia, Spain
11:45	O23. Strategies for improved rotavirus VP2 and VP6 expression in <i>Ogatea polymorpha</i> and <i>Yarrowia lipolitica</i>	Ralethoko Manamela , University of the Free State, Bloemfontein, South Africa
12:00	O24. Generating rotavirus reassortants with spike proteins from human and bovine strains for the development of region-specific vaccine candidates	Martin Johannes Visser , University of the Free State, Bloemfontein, South Africa
12:15	O25. Kinetics of rotavirus specific IgA and IgG at an individual and population level in Malawi.	Jonathan Mandolo , Malawi Liverpool Wellcome Programme, Blantyre, Malawi
12:30	Concluding remarks and farewell	Javier Buesa / Jesús Rodríguez
12:45	Lunch	

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CONGRESOS CIENTÍFICO-MÉDICOS