

Viruses

**2024**  
Conference

# Viruses 2024

## A World of Viruses

List of Posters



## Poster Session A

Thursday, 15 February 2024 (13:00-14:30, 16:00-16:30)

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A	2	Nicole Bracci	SARS-CoV-2 Endoribonuclease Antagonizes Antiviral Signaling
A	3	Matteo Agostini	Dynamics of Type I and III Interferon Responses Against Viral Infections at Single-Cell Resolution
A	4	Judith Reyes Ballista	Chikungunya Virus Release Rate Is Decreased by Phosphatidylserine Receptors
A	5	Caitlin Woodson	Development and Characterization of a Neurological Sequelae Mouse Model for EEEV Infection
A	6	Talal Alanzi	Urine Sampling as a Prognostic Tool for COVID-19: A Prospective Interventional Study
A	7	Nigel Aminake Makoah	Expression and Purification of Crimean Congo Haemorrhagic Fever Antigens for the Development of Serodiagnosis
A	8	Mohamed Omar	Prevalence of Rotavirus Infection Among Children Under 5 Years of Age With Acute Diarrhea Admitted to Banadir Hospital, Mogadishu, Somalia: A Retrospective Cross-Sectional Study
A	9	Sabine Gravelina	Presence of Epstein-Barr virus in Patients With Myalgic Encephalomyelitis/Chronic Fatigue Syndrome
A	10	Luiz Figueiredo	Mayaro, an Emerging Arbovirus in Brazil
A	11	Woong sik Jang	Loop-Mediated Isothermal Amplification and Lateral Flow Immunochromatography Technology Used for the Rapid Diagnosis of Influenza AB
A	12	Pedro Silva Ferreira	X-Ray Irradiation for Inactivation of Acutely Infected Cellular Samples, for Downstream Immunological Processing
A	13	Silvi Rouskin	Deciphering Structural Elements of Viral RNAs
A	14	Gabriel Romero-Agosto	Unveiling Viral RNA Structures Using DMS-MaPseq
A	15	Anett Kuczmog	Efficient Benchtop Purification of SARS-CoV-2 Whole Virions for Immunological Studies
A	16	Maryam Khursheed	Employing Flock House Virus-like Particles (VLPs) as Versatile Drug Delivery Agents
A	17	Mónika Madai	Determination of the in Vitro Isolation Conditions of Dobrava, Puumala and Tula Hantaviruses
A	18	Elisabeth Shiffer	Oncolytic Parainfluenza Virus Enhances the NK Cell-Mediated Killing of Pediatric Cancer Cells
A	19	Brigitta Dékány-Zana	Exploring the Diversity of Mosquito-Derived Viruses in Serbia With in Vitro and Molecular Biological Methods

A	20	Scott Grote	High-Throughput Thermodynamic Measurements Using Dimethyl Sulfate Chemical Probing of Viral RNAs
A	21	Heemee Devi Bunwaree	The Use of a Genetic Screen for the Identification of Mild Beet Yellowing Virus Resistance
A	22	Rui Xiong	Long-Term Infection and Pathogenesis in a Novel Mouse Model of Human Respiratory Syncytial Virus
A	23	Barbora Landova	Localization of RNA-Dependent RNA Polymerase From Picornaviruses in Cells Using Fluorescent NTPs and Synthetic Transporters
A	24	Giulia Ferreira	Dynamics of SARS-CoV-2 Variants of Concern and Co-circulation of Viral Respiratory Pathogens: Insights from a Brazilian Study
A	25	Vanja Kaliterna	Distribution of SARS-CoV-2 Variants Through Pandemic Waves in Tourist Split-Dalmatia County
A	26	Rajni Nyodu	An Accord Analysis of Biochemical and Immune-Inflammatory Markers Predicting the Clinical Outcome of COVID-19 Patients in the Indigenous Race and Ethnic Population of Arunachal Pradesh to Aid in Designing Discriminatory and Risk Stratification Tools
A	27	Juan-Carlos Navarro	Eco-Geography Variables of Dengue Fever and Aedes in Latin America and New Autochthonous Transmission Localities: What to Expect in the USA and Europe?
A	28	Jose Luis Villarreal Camacho	Design of a Modified Respiratory Syncytial Virus Viral Entry Reporter for the Study of Antiviral Activity of New Compounds
A	29	Paula Bueno	Discovery and Characterization of Potent and Selective SARS-CoV-2 Antivirals With Pan-Coronavirus Potential
A	30	Salomé Guez	Evaluation of Pfizer Vaccine Efficiency Against a New VOC of SARS- CoV-2: XBB 1.1
A	31	Andrea Modrego	Structural and Functional Characterization by Cryo-EM of a Novel Monoclonal Antibody With Pan-Neutralizing SARS-CoV-2 Activity
A	32	Paula Bueno	Discovery and Characterization of Broad-Spectrum Antivirals Against Rna Viruses With Dual Mode of Action Against SARS-CoV-2
A	33	Javier Gutierrez Alvarez	Identification of Antiviral Compounds of Marine Origin Using a High-Throughput Screening Process
A	34	Satoru Watanabe	Lethal Infection of Dengue Virus Clinical Strains in IFN- $\alpha/\beta$ Receptor-Deficient Mice
A	35	Kuan Wang	Cell Culture Studies of the Barrier to Resistance of the Broad-Spectrum Antiviral Remdesivir Against Hepatitis C Virus
A	36	Krisztina Leiner	Antiviral Activity of Glycopeptide Antibiotic Derivatives Against Chikungunya, Zika and SARS-CoV-2
A	37	Nicole Friesen	Human HERC5 Plays a Vital Role in the Type I Interferon Response Against Sars-Cov-2 and Is Antagonized by PLpro

A	38	Martin Klima	Structural Basis for mpox Virus Inhibition by Targeting Its Methyltransferase VP39
A	39	Evzen Boura	Development of SARS-CoV-2 and mpox Virus Methyltransferase Inhibitors Has Revealed Compounds With Dual Specificity
A	40	Hironori Yoshiyama	Bleomycin and Zeocin Preferentially Induce EBV-Positive Gastric Cancer Cell Death
A	41	Amber Rastogi	Immuno-Informatics-Driven Multi-Epitope-Based Vaccine Design Against SARS-CoV-2 Variants of Concern: Insights Into Molecular Interactions and Immunological Responses
A	42	Dominika Chalupska	SARS-CoV-2 nsp14 Methyltransferase Activity Assay for Inhibitor Screening
A	43	Juliann Makau	Development and Validation of a New In-House Phenotypic Assay for HIV-1 Drug Resistance Testing in Clinical Samples
A	44	Marta Sistere-Oro	Pan-Pox-Specific T Cell Responses in HIV-1-Infected Individuals After JYNNEOS Vaccination
A	45	Abdeldjalil Madani	Accelerating Drug Discovery Against SARS-CoV-2: Utilizing High-Throughput Screening and Nano-Luciferase Reporter Viruses
A	46	Mikaela dos Santos Marinho	Development and Validation of Mayaro Virus Nanoluciferase as a Potent Tool for Drug Discovery
A	47	Andres Merits	New Synthetic Pd(II) Aminoadamantine Complexes Strongly Impair SARS-CoV-2 Infection
A	48	Kelly Lee	An Atlas of Structural and Dynamic Variation in the HIV-1 Env Glycoprotein
A	49	Sochanwattey Meas	Humoral and Cellular Immune Responses Induced by DNA Expressing Bivalent Immunogen-Fusing Capsid Proteins From Porcine Circovirus Genotypes 2a and 2b
A	50	Dhurvas Chandrasekaran Dinesh	Development of Antiviral Agents and Structural Analysis of the Lambda-2 Pentameric Turret mRNA Capping Complex From Mammalian Orthoreovirus
A	51	Mikaela dos Santos Marinho	The Amazon Rainforest as a Source of Antiviral Molecules Against Mayaro Virus
A	52	Kanokporn Polyiam	Potent Immune Induction by Epitope-Based Dna Vaccine Against Porcine Epidemic Diarrhea Virus
A	53	Yaowaluck Roshorm	Immunodominant Linear B-Cell Epitope Profiles of Proteins p30, p54, p72, and CD2v From African Swine Fever Virus and Development of Peptide-Based ELISA
A	54	Jéssica Sarabando	Exploring the Antiviral Potential of Steroid-Styryl Compounds Against Influenza A Virus Infection
A	55	Ana Luiza Abdalla	Lithium: A Double-Edged Sword in HIV-1 Cure Strategies
A	56	Roger Badia Córcoles	Harnessing the Innate Immune Response Through NOD1 Agonists Prevents SARS-CoV-2 Infection in Human Lung Epithelial Cells

A	57	Nasser Yousef	Bunyavirus Induction of Host Cell Complement Responses
A	58	Kishan Gaur	7D Antagonizes CXCL4-Dependent Enhancement of Dengue Virus Infection by Augmenting Antiviral Immune Response in Mice
A	59	Ailar Omler	Alphaviruses Triggering the Type I IFN Response in the Absence of Viral RNA Templates
A	60	Lisa Hanrieder	Antiviral Strategies of Interferons to Control Intestinal Adenoviral Infection
A	61	Wenjia Zou	Mechanism of the ERK Pathway Regulation of Enterovirus 2A Protein in Viral Replication
A	62	Keisuke Yusa	Stabilization of a Single-Stranded DNA of Adeno-Associated Virus by Inverted Terminal Repeats
A	63	Ester Ponzetto	Late Reactivation of Herpes B Virus After a Monkey Bite: A Case of Severe Meningoencephalitis
A	64	Hanan Abu-Hassan	Fate of KSHV Tegument Proteins ORF45 and ORF52 During de Novo Infection
A	65	Odelia Orbaum Harel	The KSHV ORF20 Short Isoform Participates in Coordinating Lytic Reactivation for Enhanced Infectious Particle Production
A	66	Katerina Krejcova	Non-nucleotide RNA-Dependent Rna Polymerase Inhibitor That Blocks SARS-CoV-2 and Flaviviral Replication

## Poster Session B

Friday, 16 February 2024 (13:00-14:30, 16:00-16:30)

Session	Number	Author	Title
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B	2	Laura Weber	The Double Life of Lipid Droplets: New Functions in Antiviral Innate Immune Defense
B	3	Ashley Nutsford	Identification of a Secreted Form of the Rotavirus Outer Capsid Protein VP7
B	4	Shuhei Taguwa	Host Hsp70 Chaperone Network Participates in the Particle Formation of SFTSV
B	5	Matty Allan	Long-Range RNA:RNA Base Pairing Regulates Active Conformations of Frameshift Stimulating Elements in Coronaviruses
B	6	Patrick Dolan	Quantifying Genetic Interactions Between Mutant Genomes Using Single-Cell RNA Sequencing Approaches
B	7	Petr Skvara	Structural Basis for RNA-Cap Recognition and Methylation by the Mpx Methyltransferase VP39
B	8	Deepa Singh	Interaction of SCoV-2 NSP7 or NSP8 Alone With NSP12 Causes Constriction of the RNA Entry Channel: Implications for Novel RdRp Inhibitor Drug Discovery
B	9	Milan Kumar Lokshman	Structural Alterations During the Disassembly of Non-enveloped Viruses
B	10	Michal Vaško	Insights Into Molecular Interactions Between nsp14 and nsp10 in SARS-CoV-2 Replication
B	11	Kai Xu	Structural Basis of Broad Protection Against Phylogroup 1 Lyssavirus by Antibodies A6 and F11
B	12	Suncanica Ljubin Sternak	Human Rhinoviruses: An Eminent Contributor to Pediatric Acute Respiratory Distress Syndrome
B	13	Avery Bond	Disruption of Host Cell Calcium Signaling Pathways Reduces Polyomavirus Infection
B	14	Frederique Laprise	SARS-CoV-2 Accessory Protein ORF8 Intercepts the dIgA-pIgR Mucosal Immune Pathway
B	15	Alexandra Decloux	Functional Characterization of the Interplay Between the APOBEC Host Deaminases and the SARS-CoV-2 Proteins, and Their Role in SARS-CoV-2 Evolution
B	16	Shou-Jiang Gao	SARS-CoV-2 Infection of Multiple Cell Types and Molecular and Immune Signatures of COVID-19 in Lungs Using Spatial Single-Cell Transcriptome Analysis
B	17	Liba Sokolovska	Human Herpesvirus-6 Encoded G-Protein-Coupled Receptors U12 and U51 and Thyroid Autoimmunity

B	18	Giulia Franzoni	Evaluation of Haematological and Immunological Parameters of the ASFV Lv17/WB/Rie1 Strain and Its Derived Mutant Lv17/WB/Rie1/d110-11L in Domestic Pigs
B	19	Matthew Melki	Investigating the Role of WNK Signaling in Viral Replication
B	20	Shan-Lu Liu	Cell-To-Cell Transmission of SARS-CoV-2: Roles of the ACE2 Receptor, Membrane Fusion and Endosomal Entry
B	21	Victor Venturini	SIGMAR1 Silencing Interferes With the Formation of HCV-Induced Double-Membrane Vesicles
B	22	Eduarne García Vidal	The Identification of Novel Cellular Targets for a HIV-1 Cure Through Non-clonal Latency Models From Myeloid and Lymphoid Origin
B	23	Chen Po Ju	The Functions of CCR5 in Sars-Cov-2 Infection
B	24	Enara San Sebastian Casas	KU Heterodimer Restricts Viral Episomal DNA Gene Expression
B	25	Eva Riveira Muñoz	Regulation of IRF7 Expression: A Novel Approach to Control HIV-1 Transcription and Latency
B	26	Victoria Castro	Three-Dimensional Remodeling of SARS-CoV-2-Infected Cells Revealed by Cryo-SXT
B	27	Victoria Castro	Rapid Hepatitis C Virus Replication Machinery Removal After Antiviral Treatment With Direct-Acting Antiviral Drugs Monitored by Multimodal Imaging
B	28	Harshita Katiyar	IFITM Proteins Diminish SARS-CoV-2 Infectivity by Targeting Spike Protein
B	29	Justin Aruda	Dissecting the Structural Regulation of Pro- and Anti-Viral Host microRNAs by ADAR Editing
B	30	Melissa Maginnis	Cell-type Dependent Differences in JC Polyomavirus Signaling Pathway Activation
B	31	Wilson Nguyen	Neurovirulence of the Australian Outbreak Japanese Encephalitis Virus Genotype 4 Is Lower Compared to Genotypes 2 and 3 in Mice and Human Cortical Brain Organoids
B	32	Jesús Urquiza López	Novel Binding Partners Related to Lipid Metabolism and Endocytosis Found in the African Swine Fever Virus Interactome
B	33	Rosamaria Pennisi	Effect of Pistachio Extracts on Herpes Simplex Virus-1 (HSV-1)-Induced Inflammation
B	34	Fernando Laguia-Nueda	Enveloped Viruses Take Advantage of Massive Endocytosis Mechanisms in CD169-Mediated Uptake in Dendritic Cells
B	35	Debora Stelitano	Investigating the Interplay Between Host and Viral Factors in SARS-CoV-2 Infection
B	36	Liba Sokolovska	The Presence of Common Herpesviruses (EBV, HHV-6, and HHV-7) in the Thyroid Gland—Implications for Disease Development and Exacerbation

B	37	Olga Alekseeva	An Integrated Approach Reveals Oncolytic Activity and Novel Receptor Requirements of Bioselected Echovirus Variants
B	38	Troy Kieran	Using Machine Learning to Identify Predictive Correlates in Data From an in Vivo Ferret Model for Influenza a Risk Assessment
B	39	Fei Ke	RING Finger Proteins From Herpesviruses of Aquatic Vertebrates
B	40	Reham Alahmadi	Comprehensive Transcriptome Analysis Reveals the Distinct Immunity-Related Gene Expression Patterns of Tumor Microenvironment in HPV-Associated and HPV-Non Associated Tonsillar Squamous Cell Carcinoma
B	41	Maaweya Awadalla	Mutations at the Conserved N-Terminal of the Human Rhinovirus Capsid Gene VP4 and Their Impact on the Immune Response
B	42	Lucas Schalck	Exploring the Intriguing Role of the Turnip Yellows Virus's P3a Protein
B	43	Anita KALTAK	New Insights Into the Nuclear Export of Plant Pararetrovirus mRNAs
B	44	Pedro Corda	SARS-CoV-2 Nucleoprotein Is a Viral Regulatory Interactor of Protein Phosphatase 1 (PP1)
B	45	Marta Lopez Nieto	The Activation of the Mitochondrial Unfolded Protein Response Regulated the Formation of Stress Granules
B	46	Valentina Marano	Characterization of Structural Remodelling of Cellular Organelles Upon Coronaviridae Infections
B	47	Alan Cochrane	A role for SR Proteins in the Maintenance of HIV-1 Latency
B	48	Vanessa Ferreira	Peroxisomes and Viruses: A Dynamic Duo
B	49	Alexandre Nunes	Deciphering the Transfer Ribonucleic Acid-Modifying Enzyme Landscape in Non-severe Human Coronavirus Infection
B	50	Magalutcheemee Ramuth	Genetic Characterization of Influenza A(H1N1) pdm09 and A(h3n2) Viruses Circulating in Mauritius From 2017 to 2019
B	51	Leondios Kostrikis	Genomic Insights Into SARS-CoV-2 Epidemiological Waves and Seasonal Fluctuations: A Study of the Epidemic in Cyprus
B	52	Ana Medel Martínez	HERV Expression in SARS-CoV-2-Positive Placentas
B	53	Joseph Kendra	Large-Scale Genomics and Deep Mutational Scanning Reveal the Limited Role of Immune Pressure on the Genetic Diversification of the Outer Capsid (VP7) of G3 Rotaviruses
B	54	Romana Moutelíková	Might a Greater Variability of Porcine Rotavirus A Hamper Vaccine Efficacy in Pigs?
B	55	Christopher Robinson	A Sex-Specific CD4+ T Cell Response Limits Coxsackievirus B Pathogenesis in Mice



B	56	Samy Cherief	Impact of Direct Acting Antivirals (DAAs) on Morphogenesis and Plasticity of Hepatic Cells
B	57	Juan Vicente Bou	Extracellular Vesicle Spreading of CVB3: Genetic Basis and Evolutionary Implications
B	58	William Bakhache	Uncovering Enterovirus Structural Plasticity Through Deep Indel Screening
B	59	Wesley Hanson	Dissecting Mechanisms of Coronavirus Recombination
B	60	Jeanmarie Verchot	Genetic Diversity Among Rose Rosette Virus Isolates: A Roadmap Towards Studies of Gene Function and Pathogenicity
B	61	Amélie Janzam	Viral Non-coding RNA Resistant to Exoribonuclease: A Synergic Actor of RNA Silencing Suppression and Promoter of Viral Long-Distance Movement
B	62	Daphné de Riols de Fonclare	Drivers and Dynamics of a SARS-CoV-2 Sister Clade Sarbecovirus During a Long-Term Follow-up of a Rhinolophus Bats' Colony
B	63	Santseharay Ramirez Almeida	Characterization of SARS-CoV-2 Substitutions Causing Remdesivir Resistance
B	64	Rajni Nyodu	Double Trouble and Diagnostic Dilemma—Dengue and Scrub Typhus Co-infection Resulting in the Mimicry of Similar Clinical Implications in the Hosts: A Study Based on the Sub-Tropical Region of Arunachal Pradesh, India