



Programme

September 24th 2023 Sunday

12:00 Registration Desks Opens

12:00 – 18:00 Poster mounting

18:45 – 19:00 Opening remarks

19:00 – 20:00 *Plenary lecture*

Glen Nemerow: Adenovirus Cell Entry: Form Follows Function

20:00 Welcome dinner

September 25th 2023 Monday

8:30 Registration Desks Opens

9:00 – 10:15 *Session 1: Structure and assembly*

- **Matthew Charman**: Phase separation of the 52-55 kilodalton protein drives assembly of biomolecular condensates that coordinate assembly of packaged progeny particles
- **Nicholas Grams**: Phosphorylation of the Adenovirus L1 52/55 Kilodalton protein promotes genome packaging and progeny production through maintenance of viral biomolecular condensates
- **Kasim Waraich**: CryoEM Structure of Human Adenovirus 5 in Complex with Coagulation Factor X
- **Vijay Reddy**: Cryo-EM structure of IX-deleted human adenovirus 5

10:15 – 10:45 *Coffee break*

10:45 – 11:30 *Invited lecture*

Carmen San Martin: Seeing and touching adenovirus: complementary approaches for understanding assembly and disassembly of a complex virus

11:30 – 13:15 *Session 2: Receptors and replication*

- **Eugene Wu**: CD46 is a protein receptor for human adenovirus type 64, a causative agent for epidemic keratoconjunctivitis
- **K. Patricia Hartmann**: FAP-retargeted Ad5 enables in vivo gene delivery to stromal cells in the tumor microenvironment
- **Nora Bahlmann**: A human in vitro respiratory epithelial cell model to study adenoviral receptor usage

- **Morgan Jennings:** The Facilitates Chromatin Transactions (FACT) Complex is Required for Human Adenovirus Replication
- **Jonas Kolibius:** Viral replication of incoming HC-AdV genomes
- **Ilka Simons:** The maintenance and persistence of Human Adenoviruses are influenced by host restriction factors

13:15 – 14:15 Lunch

14:15 – 16:00 Session 3: *Immunology and pathogenesis*

- **Javier Sánchez-Céspedes:** Human adenovirus infection in haematologic malignancies: clinical impact and its possible role in oncogenesis
- **Luca Scarsella:** The molecular interplay between A549 Lung cancer and Natural Killer cells in the context of Adenovirus infection
- **Erik Schubert:** HAdV-C5 protein pVI interferes with mitochondrial DNA signaling by antagonizing the cGAS-STING pathway
- **Andreas Hildenbrand:** Receptor signalling of B cells is inhibited by E3 CR1-beta proteins of human species D adenoviruses
- **Sabrina Schreiner:** Development of an enteroid-lymphocyte co-culture system to model and study human adenovirus infection and virus persistence
- **Jay Radke:** Differential expression of cellular miRNAs during Ad14 and Ad14p1 infection regulates macrophage inflammatory responses to Ad infected CPE corpses

16:00 – 16:30 Coffee break

16:30 – 18:15 Session 4: *Virus host interaction (I)*

- **Cornelia Bircher:** Nuclear Envelope Integrity in Late Stages of Adenovirus Infection
- **Erwan Sallard:** Adenovirus type 34 and HVR1-deleted Adenovirus type 5 do not bind to PF4: clearing the path towards vectors without thrombosis risk
- **Jason Smith:** Alpha-defensins mediate receptor-independent binding of adenovirus to host cells
- **Paloma Hidalgo:** Novel Insights into Adenovirus Replication Compartments, Key Molecular Hubs for Virus-Host Interactions
- **Nicolas Gillet:** Impact of the APOBEC3 innate antiviral effectors on adenovirus replication and evolution
- **Konstantin von Stromberg:** Adenovirus large E1B proteins regulate transcription through interaction with mammalian transcription factors

19:00 – 20:00 Dinner

20:00 – 21:30 Poster session I

September 26th 2023 Tuesday

8:30 Registration Desks Opens

9:00 – 15:30 Social Outings

15:30 – 16:45 Session 5: *Virus host interaction (II)*

- **Edward Arnold:** Adenovirus protein VII binds the A-box of HMGB1 to repress interferon responses.
- **Julia Mai:** The architectural DEK protein promotes efficient HAdV infection by modulating the epigenetics of viral genomes
- **Miona Stubbe:** E2A SUMOylation promotes HAdV mediated inhibition of the tumor suppressor p53 during infection

- **Amber Abbott:** Adenoviral manipulation of cellular arginine methylation mediated by L4-100K

16:45 – 17:15 Coffee break

17:15 – 19:00 Session 6: *Translation and gene therapy*

- **Julian Fischer:** Using a novel 2-step genetic workflow and CRISPR/Cas mediated in vivo terminal resolution to generate recombinant Adenovirus libraries
- **Paul Rice-Boucher:** Cell specific vector targeting using a plug-and-play Adenovirus with molecular glue
- **Zhi Hong Lu:** Efficient genome editing achieved via plug-and-play adenovirus piggyback transport of Cas9/gRNA complex on viral capsid surface
- **Wenli Zhang:** Novel adenovirus vectors for efficient transduction of human hematopoietic stem cells and peripheral blood monocyte subsets
- **Fábio Rosa:** Adenoviral Vector-Mediated In Vivo cDC1 Reprogramming Elicits Anti-Tumor Immunity
- **Eric J Kremer:** CAV-2-mediated expression of NaV1.1, after seizure onset, reduces epilepsy in mice with Dravet syndrome

19:00 – 20:00 Dinner

20:00 – 21:30 Poster session II

September 27th 2023 Wednesday

8:30 Registration Desks Opens

9:00 – 10:30 Session 7: *Oncolytic vectors (I)*

- **Ya-Fang Mei:** Novel replication-competent adenovirus 11p vector expressing adenovirus death protein at the E1 region triggers crucial tumor suppressor pathways in the metastatic prostate cells
- **Luned Badder:** Delivery of suicide therapies using a precision virotherapy; novel approaches for pancreatic cancer
- **Julia Davydova:** Development of Preclinical Models to Advance Systemic Delivery of Oncolytic Adenoviruses
- **Emily Bates:** Developing precision adenovirotherapies for glioblastoma
- **Alicia Teixeira Crespo:** Development of a tumour selective precision immunovirotherapy expressing immune checkpoint inhibitors targeting LAG-3

10:30 – 11:00 Coffee break

11:00 – 11:45 *Invited lecture*

Andre Lieber: In vivo hematopoietic stem cell gene therapy using helper-dependent adenovirus vectors

11:45 – 13:30 Session 8: *Oncolytic vectors (ii), Non-human ads, Epidemiology and Entry and trafficking*

- **Rebecca Wallace:** Generating Hexon Chimeric Adenoviruses Designed to Circumvent Neutralising Anti-Vector Immunity
- **Rebecca Bayliss:** "Precision Immunovirotherapies" expressing bispecific immune cell activators induce immune cell activation and tumor cell killing.
- **Ksenija Božinović:** NGR-bearing human adenovirus type 5 endocytosis depends on the NGR insertion site

- **Adriana Kajon:** A fulminant case of human adenovirus c108 infection in a pediatric stem cell transplant recipient
- **Tibor Papp:** Reptile adenoviruses, genes and genomes with burgeoning variability; an update
- **Qiwei Zhang:** Isolation of a Novel Simian Adenovirus from Macaques for Development of a Vector for Human Gene Therapy and Vaccines

13:30 – 14:30 Lunch

14:30 – 16:00 Session 9: Vaccines

- **Carly Bliss:** Circumventing anti-vector immunity towards adenoviral vectored vaccines.
- **Matthew Dicks:** SpyVector; a modular capsid decoration platform to boost adenovirus vaccine-induced humoral immunity
- **Lawrence Petherbridge:** Preclinical Development of an Adenoviral Vector Based RSV and Shingles Vaccine Candidate
- **Fabian Weiss:** Improved tumor vaccination by HAdV5 and HC-HAdV5 and its targeting in vitro and in vivo to APCs by engineered modular adapters
- **Peter Johannes Holst:** Active immunization against human endogenous retrovirus type K (HERV-K) as an effective immunotherapeutic strategy against solid tumors

16:00 – 16:30 Coffee break

16:45 – 18:15 Poster session III

20:00 Farewell Dinner

September 28th 2023 Thursday

10:00 – 11:00 Closing remarks (poster and presentation awards)

11:00 Departure