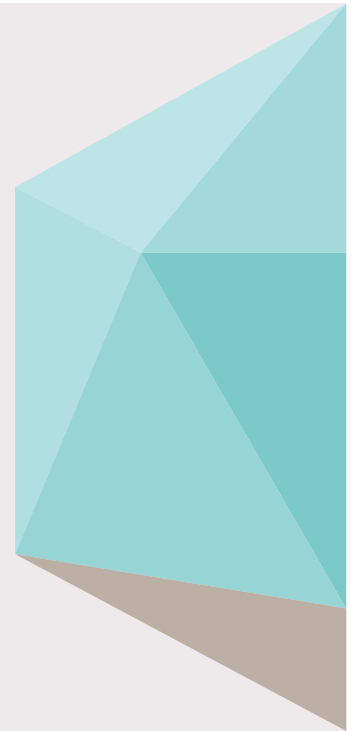


AAV MEETING

LEIPZIG | APRIL 1–2, 2025

FROM LAB TO CLINIC



General information

Venue

Fraunhofer Institute for Cell Therapy and Immunology
Perlickstraße 1, 04103 Leipzig

Registration counter – Opening hours

Tuesday, April 1, 2025: 12:00 noon – 6:30 pm
Wednesday, April 2, 2025: 9:00 am – 3:15 pm

Useful contacts

Leipzig taxis: +49 341 4884 | www.taxi4884.de
City Taxi Leipzig: +49 341 2222 4444

WLAN

WLAN is available throughout the building. Look out for the access code.

Media check

Please bring your presentation with you on a USB stick and hand it over at the check-in desk when you arrive. Your presentation should be created and presented in Microsoft PowerPoint. Please note that the presentations can only be played via the permanently installed presentation technology on site.

Poster session

Don't miss our poster session on Wednesday, April 2, 2025, 10:45–11:45 am.

Please hand in your poster at the check-in desk on April 1, 2025 between 12:00 noon and 12:30 pm (or when you arrive). The colleagues at check-in will place the poster for you and will remove it after the poster session. Your poster will be available for you to collect from the check-in desk at the end of the event. All poster authors are required to stay with their poster during the poster session and to be available for questions and discussions with the participants.

Get-together

We are happy to welcome you to the get-together and enjoying a great evening with all participants. You will then also have time to have good talks with the supporters. Delicious food and drinks will await you as well.

Date: Tuesday, April 1, 2025

Time: From 6:30 pm

Program – Tuesday, April 1, 2025

12:00 noon


Check-in

12:30 pm

Session I – Potential of AAV vectors I

Chairs: Ulrike Köhl, Thomas Schmid

Improving adeno-associated virus (AAV) vectors for in vivo gene therapy

 **KEYNOTE** Hildegard Büning, Medical University Hannover, Hannover, Germany

AAV gene therapy for temporal lobe epilepsy

Regine Heilbronn, Charité - Universitätsmedizin Berlin, Berlin, Germany

Combination of CAR-NK cells with AAV-mediated gene transfer of NKG2A checkpoint inhibitor targeting glioblastoma

Liang Xu, Goethe University Frankfurt, Frankfurt am Main, Germany

From workshop to assembly line – a cellular view on AAV production

 **INDUSTRY LECTURE** Cytiva

2:00 pm


Break

2:15 pm

Session II – Potential of AAV vectors II

Chairs: Hildegard Büning, Jacqueline Breuer

AAVs in precision medicine of hearing

 **KEYNOTE** Kathrin Kusch, University Medical Center Göttingen, Göttingen, Germany

Unlocking the full potential of AAV-mediated gene transfer in the inner ear

Jennifer Marx, Hannover Medical School, Hannover, Germany

Nanobody-engineered AAV vectors for in vivo gene therapy approaches for HIV cure

Hendrik Jahnz, Leibniz Institute of Virology, Hamburg, Germany

Advancing AAV production: Engineered endonucleases for highly efficient DNA removal across broad salt concentrations

 **INDUSTRY LECTURE** C-Lecta

3:45 pm

Break

4:15 pm

Session III – Innovations on AAV vectors I

Chairs: Claire Fabian, Thomas Schmid

Enrichment of shuffled AAVs selects for different serotypes in mouse and macaque muscle

Kristian Leite, Heidelberg University Hospital, Heidelberg, Germany

Development of engineered AAV variants to target T lymphocytes in vivo

Angela Enrica Araujo, Hannover Medical School, Hannover, Germany

Nanobodies direct AAV to target cells

Waldemar Schäfer, University Medical Center Hamburg-Eppendorf, Hamburg, Germany

5:15 pm


Break

5:30 pm


Session IV – Pitfalls from lab scale to GMP

Chairs: Thomas Schmid, Michael Bortz

Navigating the roadblocks: Overcoming challenges in the translation of pre-clinical research to GMP production in the AAV field

 **KEYNOTE** Thomas Schmid & Jacqueline Breuer, Fraunhofer IZI, Leipzig, Germany

Model-based decision support in process design and operation

 **KEYNOTE** Michael Bortz, Fraunhofer ITWM, Kaiserslautern, Germany

6:30 pm

Get-together

Program – Wednesday, April 2, 2025

9:00 am


Check-in

9:15 am

Session V – Innovations on AAV vectors II

Chairs: Ulrich Blache, Jacqueline Breuer

Generating CAR-T cells in vivo using evolved AAVs

 **KEYNOTE** William Nyberg, Karolinska Institutet, Stockholm, Sweden

Enhanced precision for gene delivery into lymphocytes through DARPIn retargeted vectors

Jessica Hartmann, Paul-Ehrlich-Institut, Federal Institute for Vaccines and Biomedicines, Langen, Germany

Transduction of primary human NK cells with Adeno-associated viral vectors

Claire Fabian, Fraunhofer IZI, Leipzig, Germany

AAV capsid analysis platform – using Mass Photometry from R&D to cGMP manufacturing

 **INDUSTRY LECTURE** Refeyn

10:45 am

Poster session

Chairs: Hildegard Büning, Ulrike Köhl, Jacqueline Breuer

11:45 am


Break

12:30 pm

Session VI – Manufacturing AAV vectors

Chairs: Ulrike Köhl, Thomas Schmid


AAV manufacturing challenges

 **KEYNOTE** Eduard Ayuso, DINAMIQS, Schlieren, Switzerland

Optimized plasmid design and maintenance improves AAV vector yield and quality

Kristian Müller, Bielefeld University, Bielefeld, Germany

A cutting-edge Nanopore pipeline for AAV characterization and platform evolution

 **INDUSTRY LECTURE** Ascend Advanced Therapies

From bench to bedside: Optimizing AAV for gene therapy

 **INDUSTRY LECTURE** Vectorbuilder

2:00 pm


Break

2:15 pm


Session VII – Regulatory and funding

Chairs: Thomas Schmid, Ilka Henze

The translation of gene therapies from bench to bedside – the European regulatory perspective

 **KEYNOTE** Martina Schüssler-Lenz, Paul-Ehrlich-Institut, Federal Institute for Vaccines and Biomedicines, Langen, Germany

Bridging the valley of death: funding opportunities to bring AAV-based therapies into clinic

 **KEYNOTE** Stephan Junker, Eurogrant GmbH, Dresden, Germany



November 2026
Leipzig, Germany

BE PART OF IT.



www.LION-conference.com

Posters

[PP01] Anti-pan AAV – PROGEN's new versatile antibody for the detection of various AAV serotypes

Silja Adam, PROGEN Biotechnik GmbH, Heidelberg, Germany

[PP02] Harnessing the therapeutic potential of AAV-mediated microRNA delivery to attenuate liver disease states

Asha Balakrishnan, Hannover Medical School, Hannover, Germany

[PP03] Capsid engineering approach to interfere with immune responses to AAV

Martin Bentler, Hannover Medical School, Hannover, Germany

[PP04] Next generation of genetically engineered stable producer cell lines to overcome viral vector manufacturing challenges

Dominik Botermann, Cytiva, Cologne, Germany

[PP05] AAV-mediated expression of therapeutic antibodies via minimal invasive application

Valentina Eberlein, Fraunhofer IZI, Leipzig, Germany

[PP06] Combinatorial targeting of adeno-associated virus (AAV) 2 vectors to fine-tune tropism

Evelyn Gebel, Hannover Medical School, Hannover, Germany

[PP07] NewBiologix Xcell™ Portfolio to overcome manufacturing challenges of rAAV

Efrain Guzman, NewBiologix SA, Epalinges, Switzerland

[PP08] Exploring chemically defined DNA packaging into AAV capsids

Lucas Haverkamp, Bielefeld University, Bielefeld, Germany

[PP09] Science meets strategy: The power of DoE in AAV production

Peter Paul Heym, Sum Of Squares – Statistical Consulting, Delitzsch, Germany

[PP10] Development of AAV genomes for cell-specific delivery of decoys targeting transcription factors

Susanne Sophia Hille, University Hospital Schleswig-Holstein, Kiel, Germany

[PP11] Tailoring AAV vectors as tools for in vivo transduction of adipocytes

Nico Jäschke, Hannover Medical School, Hannover, Germany

[PP12] Neutralizing antibodies against 20 different AAV serotypes are almost entirely absent from human CSF despite high seroprevalences

Paul Krumpöck, Medical University of Vienna, Vienna, Austria

[PP13] Tailoring AAV vectors for gene therapy of inner ear disorders by directed evolution

Josephine Macdonald, Hannover Medical School, Hannover, Germany

[PP14] In vivo targeting of HSC by capsid-engineered AAV vectors

Xabier Perez Garmendia, Hannover Medical School, Hannover, Germany

[PP15] In vivo evolution of heart-derived AAVs generates optimized cardiac capsids

Anna Katharina Schratte, Heidelberg University Hospital, Heidelberg, Germany

[PP16] Advancing cost-efficient AAV2 vector production through multi-parameter optimization and innovative seed expansion strategies

Nazgul Wagner, Sartorius Stedim Biotech GmbH, Göttingen, Germany

[PP17] A novel S/MAR-tailored AAV vector for stable genetic modification of proliferating cells

Jinbo Yu, Hannover Medical School, Hannover, Germany

Sponsors and supporters



www.ascend-adv.com



www.bio-techne.com



www.c-lecta.com



www.cytivalifesciences.com



www.packgene.com



www.probiocdm.com



www.progen.com



www.refeyn.com



www.leipzig.de



www.vectorbuilder.com