2018 Outstanding Poster Award Winners

Stephanie Anguiano-Zarate – Mayo Clinic
(517) Replicating Single-Cycle Adenovirus Vaccine against Ebola Virus

Catherine Argyriou - McGill University
(286) Raav-Mediated PEX1 Retinal Gene Augmentation Reduces Vision Loss in a Mouse Model for Mild Zellweger Spectrum Disorder

Muath Bishawi, MD, MPH - Duke University
(146) Wide Spread Adenoviral Vector Delivery to a Cardiac Allograft Utilizing an Ex Vivo Perfusion Storage Strategy

Matthias Bozza - DKFZ Heidelberg
(415) A Novel Non-Viral, Non-Integrative DNA Vector System for T-Cells Engineering

Luke Cassereau, PhD - SQZ Biotech
(227) Mitigating T Cell Response to AAV Vectors for Gene Therapy through Engineered Red Blood Cells

Eleonora Cavalca, PhD - San Raffaele Telethon Institute for Gene Therapy
(557) A Metallothionein-Based Neuroprotective Gene Therapy Approach for Lysosomal Storage Disorders

Taylor Dolberg - Northwestern University
(159) Engineering Red Blood Cell-Based Biosensors for Physiological Monitoring

Amanda Dudek - Harvard Medical School
(401) Delayed Onset and Altered Biodistribution of a Non-Canonical AAV Entry Pathway

Elizabeth Duperret, PhD - The Wistar Institute
(740) Development of a Novel Synthetic Consensus DNA Vaccine That Targets Multiple MAGE-A Family Members for Anti-Cancer Immune Therapy

Eric Ehrke-Schulz, PhD - Witten/Herdecke University
(717) Delivery of a Multiplex CRISPR/Cas9 Machinery for the Treatment of Duchenne Muscular Dystrophy with One Single Gene Deleted Adenoviral Vector

Joseph Giacalone - University of Iowa
(888) Design and Testing of a Codon Optimized RPGR

Samantha Ginn, PhD - Children's Medical Research Institute
(238) Evaluation of Recombinant Adeno-Associated Virus-Based Genome Editing Reagents for Homology-Directed Repair to Target a Human Liver Locus In Vivo

Chady Hakim - NCATS/University of Missouri
(626) In Vivo Comparison of the Biological Potency of rAAV9-Microdystrophin Made by Transient Transfection and a Scalable Herpesvirus System

Michael Hughes, PhD - University College London
(845) AAV9 Intracerebroventricular Gene Therapy Improves Lifespan and Normalises Long-Term Locomotor Behaviour in a Mouse Model of Niemann-Pick Type C1 Disease

Hannah Lahey - University of Massachusetts Medical School
(287) Second Generation AAV Vectors Ameliorate GM2 Gangliosidosis after Systemic Delivery

Chang Li, PhD - University of Washington
(485) HDAd5/35++ Vector Expressing Anti-CRISPR Peptides Controls the Duration of CRISPR/Cas9 Activity and Decreases CRISPR/Cas9-Associated Toxicity in Human Hematopoietic Stem Cells

Heng-wen Liu - Johns Hopkins University
(449) Development of a Reproducible and Scalable Method for Manufacturing pDNA/lPEI Nanoparticles as a Plasmid Delivery Agent

Anastasia Lomova - University of California, Los Angeles
(184) Improving Gene Editing in Human Hematopoietic Stem Cells by Temporal Control of DNA Repair

Anna Maurer - Harvard Medical School
(88) The Assembly-Activating Protein is Pleiotropic in AAV Assembly

Devin McDougald - University of Pennsylvania School of Medicine
(283) AKT3 Gene Transfer Promotes Photoreceptor Neuroprotection in a Pre-Clinical Model of Retinitis Pigmentosa

Vasco Meneghini, PhD - Imagine Institute
(828) Induction of Fetal Hemoglobin Synthesis by CRISPR/Cas9-mediated Editing of the Human β-globin Locus

Sara Miller – bluebird bio
(732) Flipping the Script on the Tumor Microenvironment: A Novel Signal Conversion Platform That Exploits Tumor-Derived TGF-β to Enhance CAR T Cell Effector Function

Ana Moyano, PhD - Instituto Universitario Ciencias Biomédicas de Córdoba (IUCBC)
(309) MicroRNA-219 Reduces Viral Load and Pathologic Changes in Theiler's Virus-Induced Demyelinating Disease

Murtaza Nagree - University of Toronto
(543) An In Vivo Enrichment Platform to Enhance Hematopoietic Cell-Directed Gene Therapy

Michael Nance - University of Missouri Columbia
(861) AAV-9 CRISPR Mediated Satellite Cell Editing Restored Dystrophin Expression after Complete Degeneration in a Whole Muscle Graft Mode

Leslie Nash - Ottawa Hospital Research Institute
(924) Harnessing exosome-Based Approaches for Development of Biomarkers and Novel Therapeutics in Spinal Muscular Atrophy

Sowmya Pattabhi, PhD - Seattle Childrens Research Institute
(800) rAAV6 Outperform ssODN as Homology-Directed Repair Donor Template for Gene Editing at the B-Globin (HBB) Locus

Velia Penza - Mayo Clinic
(438) Impact of the Interferon Response on Intratumoral Adaptation of Oncolytic Picornaviruses

Sripriya Ravindra Kumar - California Institute of Technology
(695) Developing AAV Vectors for More Efficient and Selective Gene Expression in Specific Cell Types of the Nervous System Following Systemic Delivery

Maria Rosales Gerpe - University of Guelph
(607) Optimization of the Production and Concentration of Pre-Clinical Grade Jaagsiekte Sheep Retrovirus (Jsrv) Env-Pseudotyped Lentiviral Vectors for Lung Gene Delivery

Faye Rogers, PhD - Yale University School of Medicine
(594) Exploiting Gene Amplification in Cancer Using Triplex Formation as a Novel Therapeutic Strategy

Alicia Roig-Merino – DKFZ – German Cancer Research Center
(469) A Novel Non-Integrating Non-Viral DNA Vector for the Persistent Genetic Modification of Embryonic and Hematopoietic Stem Cells

Jeffrey Rubin - Mayo Clinic Graduate School of Biomedical Sciences
(242) Enhanced Gene Delivery to the Kidney by Viral and Non-Viral Vectors

Christiana Salami - Weill Cornell Medical College
(761) Stress-Induced Cardiac Mouse Model of Friedreich's Ataxia Corrected by AAV-Mediated Gene Therapy

Amanda Salzwedel, DVM, PhD – University of Minnesota
(1004) Use of Oncolytic Adenovirus Expressing IFN Alpha as a Tool to Improve IFN-Based Chemoradiation Regimen to Treat Pancreatic Cancer

Benjamin Samelson-Jones - The Children's Hospital of Philadelphia
(199) Hemostatic Efficacy and Provocative Safety Studies of Factor IX Padua Gene Therapy in Hemophilia B Dogs

Todd Sanderson - Pall Biotech
(339) Serum Free and Chemically Defined Platform for the Growth and Propagation of HEK293 Cells and Adenovirus Viral Vector Amplification

Yaling Shi, PhD - Lonza
(934) Automated End-to-End Manufacturing Solutions for Car-T Immunotherapies

Paola Solanes, PhD - Ecole Polytechnique Fédérale de lausanne
(293) Cas9/gRNAs Selective Targeting of the Beethoven Tmc-1 Mutant Allele for Treating Progressive Hearing Loss by AAV-Based Delivery

Nicolina Sorrentino, PhD - Telethon Institute of Genetics and Medicine (TIGEM)
(281) Enhanced Version of Human Sulfamidase Significantly Ameliorates CNS Pathology When Delivered to the MPS-IIIA Mice by AAV-Mediated Intra-CSF Injection

Lawrence Stern - City of Hope
(748) Yeast Surface Display Techniques Enhance Development of Chimeric Antigen Receptors

Devin Stranford - Northwestern University
(619) Display of Single-Chain Variable Fragments on Extracellular Vesicles for Enhancing Recipient Cell Targeting and Uptake

Nina Timberlake, PhD - Poseida Therapeutics
(505) Non-Viral Engineered CAR-T Cells for Safe and Specific Stem Cell Transplant Conditioning

G. Grant Welstead, PhD - Editas Medicine
(127) Improving Efficacy of CAR T Cells through CRISPR/Cas9 Mediated Knockout of TGFBR

Christopher Wilson, PhD - Editas Medicine
(906) Gene Editing Specificity Assessment for EDIT-101, an LCA10 Therapeutic Candidate

Rachael Witko - UF Health
(282) AAV-Mediated Gene Delivery to Treat Xeroderma Pigmentosum - Cockayne Syndrome (XP-CS) In Vivo

Jia Yang - The University of Tokyo
(759) Novel microRNA Engineered Oncolytic Virotherapy for Clinical Trial

Jaquelyn Zoine - Emory University
(115) The Antitumor Effectiveness of γδ T Cells is Enhanced When Combined with Stress-Inducing Chemotherapy