

Ongoing Research at the DOVS:

Dr. McCall's Lab:

ARVO 2021 Abstracts:

Oral presentation:

Allele-selective reduction of P23H-mutant rhodopsin with stereopure oligonucleotides rescues phenotype associated with retinitis pigmentosa in preclinical models

Michael Byrne, Vinod Vathipadickal, Lankai Guo, Yuan Yin, Hailin Yang, Richard Looby, Lauren Norwood, James Fransen, Archana Jalligampala, Jennifer Noel, Chandra Vargeese, Maureen McCall

Poster presentation:

SPVN06, a Novel Mutation-Independent AAV-based Gene Therapy, Protects Cone Degeneration in a Pig Model of Retinitis Pigmentosa

Jennifer Noel, Archana Jalligampala, Myriam Marussig, Pierre-Axel Vinot, Melanie Marie, Melanie Butler, Florence Lorget, Stelphane Boissel, Thierry Leveillard, Jose-Alain Sahel, Maureen A. McCall

Rho 1-2 meganuclease, an allele-specific gene-editing therapy, rejuvenates rod photoreceptor structure and function in a pig model of autosomal dominant Retinitis Pigmentosa (adRP)

Jennifer Noel, James W. Fransen, Wei Wang, Maha H. Jabbar, Nazarul Hasan, Gobinda Pangen, Bhubanananda Sahu, Whitney Lewis, Jeff Smith, Victor Bartsevich, Kristi Viles, Derek Jantz, Maureen A. McCall

Allele-selective reduction of P23H-mutant rhodopsin with stereopure oligonucleotides rescues phenotype associated with retinitis pigmentosa in preclinical models

Michael Byrne, Vinod Vathipadickal, Lankai Guo, Yuan Yin, Hailin Yang, Richard Looby, Lauren Norwood, James Fransen, Archana Jalligampala, Jennifer Noel, Chandra Vargeese, Maureen McCall

American Society of Gene and Cell Therapy 2021 Abstracts:

Poster:

A Mutation-Independent Gene Therapy Strategy Induces Rod Function in a Transgenic Swine Model of Autosomal Dominant Retinitis Pigmentosa

Archana Jalligampala, Jennifer Noel, Ahmed M. Chubul, Gobinda Pangen, William W. Hauswirth, Michael Massengill, Alfred S. Lewin, Maureen A. McCall

Rod-derived Cone Viability Factor Provides Trophic Support for Cone Photoreceptors in a Pig Model of Retinitis Pigmentosa Author Block: Jennifer M. Noel, Archana Jalligampala, Myriam Marussig, Pierre-Axel Vinot, Melanie Marie, Melanie Butler, Florence Lorget, Stéphane Boissel, Thierry D. Leveillard, Jose A. Sahel, Maureen A. McCall

Dr. Borchman's Lab:

ARVO 2021 Abstracts:

A Spectroscopic Study of the Composition and Conformation of Cholesteryl and Wax Esters Purified from Human Meibum

Anthony Ewurum, Akhila Ankem, Georgi Georgiev, Douglas Borchman

A Spectroscopic Approach to Measuring Meibu Lipid Composition and Conformation in Donors with Sjogren's Syndrome

Sravya R Veligandla, Anthony Ewurum, Jordan Swindel, Jeremy Clark, Douglas Borchman

Dr. Tamiya's Lab:

ARVO 2021 Abstract:

Rho is involved in regulation of myocardin-related transcription factor and myofibroblast transdifferentiation of RPE cells

Tamiya, Shigeo; Jagatheesan, Ganapathy; Ueda, Shunichiro

Dr. Scott's Lab:

ARVO 2021 Abstract:

CIB2 is essential for autophagy in the retinal pigment epithelium and visual function

Saumil Sethna, Patrick A. Scott, Arnaud P.J. Giese, Todd Duncan, Sheikh Riazuddin, T. Michael Redmond, Steven L. Bernstein, Saima Riazuddin, Zubair M. Ahmed