**Research Funding provided by Choroideremia Research Foundation ** [**CureCHM.org**](https://www.curechm.org/)

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| Funded | Researcher Name | Institution | Project Title |
| 2002 | Miguel Seabra, MD, PhD, Professor, CEDOC, Chronic Diseases Research Center | Nova Medical School, University of Lisbon, Portugal | Choroideremia Research Lab Supplies |
| 2003 | Miguel Seabra, MD, PhD, Professor, CEDOC, Chronic Diseases Research Center | Nova Medical School, University of Lisbon, Portugal | Development of CHM Mouse Model |
| 2004 | Miguel Seabra, MD, PhD, Professor, CEDOC, Chronic Diseases Research Center | Nova Medical School, University of Lisbon, Portugal | Generation of CHM Viral Vector, pt. 1 |
| 2005 | Kirill Alexandrov, PhD | Max Planck Institute, Germany | Forced Expression of REP2 to the Retina |
| 2005 | Miguel Seabra, MD, PhD, Professor, CEDOC, Chronic Diseases Research Center | Nova Medical School, University of Lisbon, Portugal | Generation of CHM Viral Vector, pt. 2 |
| 2006 | Miguel Seabra, MD, PhD, Professor, CEDOC, Chronic Diseases Research Center | Nova Medical School, University of Lisbon, Portugal | Preclinical Gene Therapy Study Year 1 |
| 2007 | Miguel Seabra, MD, PhD, Professor, CEDOC, Chronic Diseases Research Center | Nova Medical School, University of Lisbon, Portugal | Preclinical Gene Therapy Study Year 2 |
| 2010 | Jean Bennett, MD, PhD, F.M. Kirby Professor of Ophthalmology | Scheie Eye Institute, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA | Mouse Study Testing for Three Viral Vector Candidates |
| 2011 | Jean Bennett, MD, PhD, F.M. Kirby Professor of Ophthalmology | Scheie Eye Institute, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA | Alternative In-Vitro Assay to Evaluate Three Viral Vector Candidates |
| 2011 | Miguel Seabra, MD, PhD, Professor, CEDOC, Chronic Diseases Research Center | Nova Medical School, University of Lisbon, Portugal | Pre-Clinical Gene Therapy Study Year 3 |
| 2012 | Jean Bennett, MD, PhD, F.M. Kirby Professor of Ophthalmology | Scheie Eye Institute, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA | Purchase of MP-1 Nidek digital retinal microperimeter equipment |
| 2012 | Mariya Moosajee, MBBS, BsC (Hons), PhD, FRCOphth, Consultant Ophthalmic Surgeon and Clinical Academic Ophthalmologist | University College, London, UK | Ataluren to Treat Nonsense-Mediated Choroideremia; Evaluate 6 Readthrough Compounds on Zebrafish and iPS Derived CHM Cell Lines, Fibroblast, RPE with Dr. Kalatzis; Grant 1 |
| 2012 | Jean Bennett, MD, PhD, F.M. Kirby Professor of Ophthalmology | Scheie Eye Institute, Perelman School of Medicine, University of Pennsylvania | First Generation Gene Therapy in Collaboration with Spark Therapeutics, pt. 1 |
| 2013 | Miguel Seabra, MD, PhD, Professor, CEDOC, Chronic Diseases Research Center | Nova Medical School, University of Lisbon, Portugal | Pre-Clinical Gene Therapy Studies pt. 2 |
| 2013 | Mariya Moosajee, MBBS, BsC (Hons), PhD, FRCOphth, Consultant Ophthalmic Surgeon and Clinical Academic Ophthalmologist | University College, London, UK | Ataluren to Treat Nonsense-Mediated Choroideremia; Evaluate 6 Readthrough Compounds on Zebrafish and iPS Derived CHM Cell Lines, Fibroblast, RPE with Dr. Kalatzis; Grant 2 |
| 2013 | Jean Bennett, MD, PhD, F.M. Kirby Professor of Ophthalmology | Scheie Eye Institute, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA | First Generation Gene Therapy in Collaboration with Spark Therapeutics, pt.2 |
| 2013 | Vasiliki Kalatzis, PhD, Human Genetics, HDR Life Sciences | Institute for Neurosciences of Montpellier, INSERM, France | Pre-Clinical Gene Therapy Studies for Choroideremia Using a Human Cellular Model: Differentiation of Patient iPS Cells into Retinal Cells, pt. 2 |
| 2013 | David Gamm, MD, PhD, Director, McPherson Eye Research Institute, Associate Professor, Ophthalmology and Visual Sciences | University of Wisconsin, Madison, WI | Microscope and Laboratory Equipment for Choroideremia Research |
| 2013 | Ian MacDonald, BsC, PhD, Professor of Metabolic Physiology, Faculty of Medicine & Health Sciences | University of Nottingham, UK | An Open Label Clinical Trial of Retinal Gene Therapy for Choroideremia |
| 2014 | Mariya Moosajee, MBBS, BsC (Hons), PhD, FRCOphth, Consultant Ophthalmic Surgeon and Clinical Academic Ophthalmologist | University College, London, UK | Ataluren to Treat Nonsense-Mediated Choroideremia; Evaluate 6 Readthrough Compounds on Zebrafish and iPS Derived CHM Cell Lines, Fibroblast, RPE with Dr. Kalatzis; Grant 3 |
| 2014 | Mariya Moosajee, MBBS, BsC (Hons), PhD, FRCOphth, Consultant Ophthalmic Surgeon and Clinical Academic Ophthalmologist | University College, London, UK | Ataluren to Treat Nonsense-Mediated Choroideremia; Evaluate 6 Readthrough Compounds on Zebrafish and iPS Derived CHM Cell Lines, Fibroblast, RPE with Dr. Kalatzis; Grant 4 |
| 2014 | Vasiliki Kalatzis, PhD, Human Genetics, HDR Life Sciences | Institute for Neurosciences of Montpellier, INSERM, France | Pre-Clinical Gene Therapy Studies for Choroideremia Using a Human Cellular Model: Differentiation of Patient iPS Cells into Retinal Cells, pt. 1 |
| 2014 | David Gamm, MD, PhD, Director, McPherson Eye Research Institute, Associate Professor, Ophthalmology and Visual Sciences | Waisman Center, University of Wisconsin, Madison, WI | The Potential Role of hiPSCs in the Treatment of Choroideremia |
| 2015 | Jean Bennett, MD, PhD, F.M. Kirby Professor of Ophthalmology | Scheie Eye Institute, Perelman School of Medicine, University of Pennsylvania | Multi-Focal ERG/Visual Evoked Potentials Machine |
| 2015 | Mark Pennesi, MD, PhD Assistant Professor in Ophthalmic Genetics | Oregon Health and Science University, Portland, OR | Exploring the Potential of OCT Angiography to Monitor Progression in Choroideremia |
| 2015 | Miguel Seabra, MD, PhD, Professor, CEDOC, Chronic Diseases Research Center | Nova Medical School, University of Lisbon, Portugal | Direct Reprogramming of Fibroblasts into Functional RPE Cells by Specific Transcription Factors |
| 2015 | Mariya Moosajee, MBBS, BsC (Hons), PhD, FRCOphth, Consultant Ophthalmic Surgeon and Clinical Academic Ophthalmologist | University College, London, UK | Whole Organism Screening for Protective/Regenerative Drug Therapeutics in the CHM Zebrafish Model |
| 2015 | Jeffrey S. Mumm, PhD, Helen Larson & Charles Glenn Grover Professor in Ophthalmology, Associate Professor of Ophthalmology | Wilmer Eye Institute, Johns Hopkins Medicine, Baltimore, MD | Whole Organism Screening for Protective/Regenerative Drug Therapeutics in the CHM Zebrafish Model |
| 2015 | Gerald Lutty, PhD, Director, Ocular Vasculogenesis and Angiogenesis Laboratory; Professor of Ophthalmology | Wilmer Eye Institute, Johns Hopkins Medicine, Baltimore, MD | Production and Testing of CHM hiPSC-Derived Retinal and Vascular Cells (part 1) |
| 2015 | David Gamm, MD, PhD, Director, McPherson Eye Research Institute; Associate Professor, Ophthalmology and Visual Sciences | Waisman Center, University of Wisconsin, Madison, WI | Establishment of CHM Biobank |
| 2015 | David Gamm, MD, PhD, Director, McPherson Eye Research Institute; Associate Professor, Ophthalmology and Visual Sciences | Waisman Center, University of Wisconsin, Madison, WI | Production and Testing of CHM hiPSC-Derived Retinal and Vascular Cells (part 2) |
| 2015 | n/a | 4D Molecular Therapeutics, Emeryville, CA | Development of AAV Capsid Variants with Enhanced Pan retinal Gene Delivery of the REP-1 Transgene for the Treatment of Choroideremia |
| 2016 | Edwin Stone, MD, PhD, Seamans-Hauser Chair in Molecular Ophthalmology; Director, Molecular Ophthalmology Laboratory; Director, Carver Family Center for Macular Degeneration; Director, Carver Nonprofit Genetic Testing Laboratory; Director, Institute for Vision | University of Iowa Foundation, Iowa City, IA | Project CHM Genotyping Program (part 2) - Funded in Conjunction with PTC Therapeutics |
| 2016 | Robert MacLaren, MB, ChB, Dphi, FRCOphth, FRCS, FACS, FMedSci, Professor of Opthamology | University of Oxford, UK | OPI Lumera OCT Microscope Equipment Purchase |
| 2016 | Mariya Moosajee, MBBS, BsC (Hons), PhD, FRCOphth, Consultant Ophthalmic Surgeon and Clinical Academic Ophthalmologist | University College, London, UK | Whole Organism Screening for Protective/Regenerative Drug Therapeutics in the CHM Zebrafish Model; grant 2 |
| 2016 | Mariya Moosajee, MBBS, BsC (Hons), PhD, FRCOphth, Consultant Ophthalmic Surgeon and Clinical Academic Ophthalmologist | University College, London, UK | Freezer for CHM Research Samples |
| 2016 | Mariya Moosajee, MBBS, BsC (Hons), PhD, FRCOphth, Consultant Ophthalmic Surgeon and Clinical Academic Ophthalmologist | University College, London, UK | Investigating the Degenerating Choroid in Choroideremia |
| 2017 | Michael Young, PhD, FARVO, Co-Director, Ocular Regenerative Medicine Institute and Director, Minda de Gunzburg Center for Retinal Regeneration | Schepens Eye Institute, Mass General Boston; Department of Opthamology, Harvard Medical School, Boston, MA | Localized Gene Delivery Through Suprachoroidal Space Using a Novel Auto Stop Needle |
| 2018 | David Gamm, MD, PhD, Director, McPherson Eye Research Institute; Associate Professor, Ophthalmology and Visual Sciences | Waisman Center, University of Wisconsin, Madison, WI | Year 1: Elucidating the Function of REP1 in Human Pluripotent Stem Cell-Derived RPE and Photoreceptor cells – funded in partnership with the Choroideremia Research Foundation Canada |
| 2018 | David Gamm, MD, PhD, Director, McPherson Eye Research Institute; Associate Professor, Ophthalmology and Visual Sciences | Waisman Center, University of Wisconsin, Madison, WI | Determining the Downstream Consequences of Endogenous REP1 Activity in Human RPE and Photoreceptor cells |
| 2018 | Miguel Seabra, MD, PhD, Professor, CEDOC, Chronic Diseases Research Center | Nova Medical School, University of Lisbon, Portugal | How CHM Defect Affects Cross Talk Between Organelles and Cellular Functions such as Mitochondria, Lysosome, Autophagy, and Proteostasis |
| 2018 | Keirnan Willett, MD, Department of Ophthalmology | University of Pennsylvania, Philadelphia, PA | Vascular Biomarkers in Retinal Gene Therapy for Leber Congenital Amaurosis and Choroideremia - funded in partnership with Fight for Sight (NY) |
| 2018 | Jason A. Mills, PhD, Research Investigator and Kathleen Boesze-Battaglia, PhD, Professor of Biochemistry and Biophysics | University of Pennsylvania, Philadelphia, PA | Targeting Phagosome Maturation to Restore Dysfunctional Retinal Pigmented Epithelium in CHM – funded in partnership with the Penn Orphan Disease Center Million Dollar Bike Ride |
| 2019 | David Gamm, MD, PhD, Director, McPherson Eye Research Institute; Associate Professor, Ophthalmology and Visual Sciences | Waisman Center, University of Wisconsin, Madison, WI | Year 2: Elucidating the Function of REP1 in Human Pluripotent Stem Cell-Derived RPE and Photoreceptor Cells |
| 2019 | Miguel Seabra, MD, PhD, Professor, CEDOC, Chronic Diseases Research Center | Nova Medical School, University of Lisbon, Portugal | Mechanisms in Cell Death in Choroideremia |
| 2020 | Katrina Stingl, MD, Ophthalmologist, Clinical Scientist | University Eye Hospital, Tübingen, Germany | Adaptive Optics Imaging in Follow-Ups of Choroideremia Patients after Gene Therapy- funded in partnership with the Penn Orphan Disease Center Million Dollar Bike Ride |
| 2020 | Richard Harbottle, PhD, Group Leader, DNA Vector Group Leader | German Cancer Research Centre, DKFZ, Heidelberg, Germany | Autonomously Replicating DNA Nanovectors for Gene and Cell Therapy of Choroideremia |
| 2020 | David Williams, PhD, Professor in Residence, Ophthalmology | University of California, Los Angeles, CA | Understanding Mitochondrial Defects in Choroideremia |
| 2020 | Kim Edwards, Graduate Student | University of Wisconsin, McPherson Eye Research Institute, Madison, WI | RANDY WHEELOCK RESEARCH AWARD WINNER: Identifying the Function of REP-1 Protein in Retina (RPE/Photoreceptors) and Non-Retina Tissues |
| 2020 | David Gamm, MD, PhD, Director, McPherson Eye Research Institute; Associate Professor, Ophthalmology and Visual Sciences | University of Wisconsin, McPherson Eye Research Institute, Madison, WI | Randy Wheelock Research Award Budget Supplement |
| 2020 | Abigail Fahim, MD, PhD, Clinical Assistant Professor, Ophthalmology and Visual Sciences | Kellogg Eye Center, University of Michigan, Ann Arbor, MI | Investigating Choroideremia Pathophysiology using iPSC-derived Retinal Pigment Epithelium – funded in partnership with the Choroideremia Research Foundation Canada |
| 2020 | Stacey Hume, PhD, FCCMG, Associate Professor, Department of Medical Genetics | University of Alberta, Canada | BOREN FAMILY RESEARCH AWARD: Identifying the Cause of a Discordant Phenotype in Two Brothers with the Identical CHM Mutation – funded in partnership with the Choroideremia Research Foundation Canada |
| 2020 | Yi (Fay) Zhai, MD, PhD, Clinical Research Fellow, Department of Ophthalmology | University of Alberta, Canada | OSTER FAMILY RESEARCH AWARD: Measuring the En Face Ellipsoid Zone (EZ) Area as a Biomarker of Photoreceptor Structure/Function in Choroideremia – funded in partnership with the Choroideremia Research Foundation Canada |
| 2021 | Mariya Moosajee, MBBS, BsC (Hons), PhD, FRCOphth, Consultant Ophthalmic Surgeon and Clinical Academic Ophthalmologist | University College, London, UK | SALOIS FAMILY RESEARCH AWARD: Neuroprotection for Choroideremia - – funded in partnership with the Choroideremia Research Foundation Canada |
| 2021 | Vasiliki Kalatzis, PhD, Human Genetics, HDR Life Sciences | Institute for Neurosciences of Montpellier, INSERM, France | GLEASON FAMILY RESEARCH AWARD: A Novel Approach to Unravelling the Pathophysiology of CHM using iPSC-derived RPE from Patients- funded in partnership with the Choroideremia Research Foundation Canada |
| 2021 | David Gamm, MD, PhD, Director, McPherson Eye Research Institute; Associate Professor, Ophthalmology and Visual Sciences | University of Wisconsin, McPherson Eye Research Institute, Madison, WI | THE AUBURN THETA CHI, CHI CHAPTER RESEARCH AWARD: Generation of Human iPSC Lines with Patient-Relevant REP-1 Mutation |
| 2021 | Ivan Conte, PhD, Assistant Professor, Department of Biology, Polytechnic and Basic Sciences School | University of Naples Federico II, Italy | Pharmacological induction of autophagy to treat CHM – funded in partnership with the Penn Orphan Disease Center Million Dollar Bike Ride |
| 2021 | Jasleen Kaur Jolly MSc BSc (Hons) MCOptom, Senior Clinical Research Fellow | University of Oxford, Nuffield Department of Clinical Neurosciences, UK | RICKETTS FAMILY RESEARCH AWARD: The Visual Brain in Choroideremia |
| 2021 | Cynthia Qian, MD, FRCSC, DABO, Clinical Assistant Professor | University of Montreal, Canada | RANDY WHEELOCK RESEARCH AWARD WINNER: Characterizing the phenotypical findings in female carriers with confirmed CHM mutation using multimodal imaging and functional testing; funded in partnership with the Choroideremia Research Foundation Canada |
| 2021 | Abigail Fahim, MD, PhD, Clinical Assistant Professor, Ophthalmology and Visual Sciences | Kellogg Eye Center, University of Michigan, Ann Arbor, MI | Investigating Choroideremia Pathophysiology using iPSC-derived Retinal Pigment Epithelium – year 2 – funded in partnership with the Choroideremia Research Foundation Canada |
| 2021 | Bhanu P. Telugu, DVM, PhD, President & CSO | RenOVAte Biosciences, Inc., Reisterstown, MD | CHM Porcine Animal Model Development – funded in partnership with Choroideremia Research Foundation Canada |
| 2022 | David Gamm, MD, PhD, Director, McPherson Eye Research Institute; Associate Professor, Ophthalmology and Visual Sciences | University of Wisconsin, McPherson Eye Research Institute, Madison, WI | Assessing the potential of engineered tRNA readthrough technology to restore Rab Escort Protein-1 (REP-1) protein expression-- funded in partnership with the Penn Orphan Disease Center |
| 2022 | David Gamm, MD, PhD, Director, McPherson Eye Research Institute; Associate Professor, Ophthalmology and Visual Sciences | University of Wisconsin, McPherson Eye Research Institute, Madison, WI | EINHORN FAMILY RESEARCH AWARD: MDBR Supplement: Assessing the potential of engineered tRNA readthrough technology to restore Rab Escort Protein-1 (REP-1) protein expression |
| 2022 | Vasiliki Kalatzis, PhD, Human Genetics, HDR Life Sciences | Institute for Neurosciences of Montpellier, INSERM, France | Unravelling the Pathophysiology of CHM using innovative approaches – funded in partnership with Choroideremia Research Foundation Canada |
| 2022 | Ian MacDonald, MSc, MD, CM, Professor Emeritus, Department of Ophthalmology and Visual Sciences | University of Alberta, Canada | Developing an antisense oligonucleotide therapy for choroideremia – funded in partnership with the Choroideremia Research Foundation Canada |
| 2022 | Sena Gocuk, B.Sci (Hons), D.Optom, M.Phil, Department of Optometry and Vision Sciences | University of Melbourne, Australia | Structural and functional changes in female carriers of choroideremia: A longitudinal study |
| 2022 | Jasleen Jolly, DPhil, MSc, BSc (Hons), MCOptom, Associate Professor, Vision and Eye Research Institute | Anglia Ruskin University, Cambridge, UK | MAIA Scotopic Microperimetry Equipment Purchase |
| 2022 | Bhanu P. Telugu, DVM, PhD, President & CSO | RenOVAte Biosciences, Inc., Reisterstown, MD | RANDY WHEELOCK RESEARCH AWARD WINNER: CHM Porcine Animal Model Development year 2 |
| 2022 | Kathleen Boesze-Battaglia, PhD, Professor of Biochemistry and Biophysics | University of Pennsylvania, Philadelphia, PA | [Targeting Metabolic Homeostasis in Dysfunctional CHM Retinal Pigment Epithelia](https://www.orphandiseasecenter.med.upenn.edu/awarded-grants/iem8yjznwv916kubyg5h4vdsqbddem-ac78h-9w9p2-tzl5s-23eg9-xehme-tahps-9rcht-z4kkr-cf363-8yfj9-5hdrm-zmhww-4hmpb-6cx6k-e9ln9-aej7a)– funded in partnership with the Penn Orphan Disease Center Million Dollar Bike Ride |
| 2023 | Miguel Seabra, MD, PhD and Pedro Antas, PhD, Global Eye Initiative | Champalimaud Foundation, Portugal | THROSSELL AND HILLIER FAMILIES RESEARCH AWARD: CRISPR-Based Gene Editing for Choroideremia – funded in partnership with the Choroideremia Research Foundation Canada |
| 2023 | Joseph Porter, PhD and John Lueck, PhD, Department of Pharmacology and Physiology | University of Rochester Medical Center, Rochester, NY | THROSSELL AND HILLIER FAMILIES RESEARCH AWARD: Development of a modular CHM minigene for testing rescue of the LET variant via anticodon engineered tRNAs– funded in partnership with the Choroideremia Research Foundation Canada |
| 2023 | Kerstin Nagel-Wolfrum, Dr. Phil. Nat; Institute of Molecular Physiology | Johannes Gutenberg University, Mainz, Germany | THROSSELL AND HILLIER FAMILIES RESEARCH AWARD: Translational read-through as therapeutic approach for CHM-patients with disease-causing nonsense mutations – funded in partnership with the Choroideremia Research Foundation Canada |
| 2023 | Sena Gocuk, B.Sci (Hons), D.Optom, M.Phil, Department of Optometry and Vision Sciences | University of Melbourne, Australia | BENELLI FAMILY RESEARCH AWARD: Structural and functional changes in female carriers of choroideremia: A longitudinal study – Year 2 expansion study |
| 2023 | Ian MacDonald, MSc, MD, CM, Professor Emeritus, Department of Ophthalmology and Visual Sciences | University of Alberta, Canada | FRANCISCO RODRIGUEZ RESEARCH AWARD: Identifying the Cause of a Discordant Phenotype in Two Brothers with the Identical CHM Mutation – year 2 |
| 2023 | Dror Sharon, PhD; Division of Ophthalmology and Shay Ben Aroya, PhD; Faculty of Life Sciences | Hadassah-Hebrew University Medical Center, Jerusalem, Israel, and Bar-Ilan University, Israel | In-vitro and in-vivo RNA editing of *CHM* nonsense mutations |
| 2023 | Bhanu P. Telugu, DVM, PhD, President & CSO | RenOVAte Biosciences, Inc., Reisterstown, MD | A Novel Murine Pre-Clinical Model for Choroideremia Research |
| 2023 | Mariya Moosajee, MBBS, BsC (Hons), PhD, FRCOphth, Consultant Ophthalmic Surgeon and Clinical Academic Ophthalmologist | University College, London, UK | An investigator-led pilot study for the use of ataluren to treat nonsense-mediated choroideremia |
| 2023 | Tomas S. Aleman, MD, Director of the Retinal Structure and Function Laboratory, Perelman Center for Advanced Medicine, Perelman School of Medicine | University of Pennsylvania, Philadelphia, PA | Gene Therapy for Choroideremia: Redefining Cellular Targets and Treatment Windows |
| 2023 | Luisa de Lemos, PhD, Postdoctoral Researcher | Champalimaud Foundation, Portugal | RANDY WHEELOCK RESEARCH AWARD WINNER: Pathways of Retinal Pigment Epithelium Degeneration in Choroideremia |
| 2023 | Malia Edwards, PhD, Associate Professor of Ophthalmology | Wilmer Eye Institute, Johns Hopkins Medicine, Baltimore, MD | To Study the Potential for Collagen Mimetic Peptides to reduce progressive damage to the Bruch’s-RPE-Photoreceptor Complex in Choroideremia - funded in partnership with the Penn Orphan Disease Center Million Dollar Bike Ride |
| 2024 | Bhanu P. Telugu, DVM, PhD, President & CSO | RenOVAte Biosciences, Inc., Reisterstown, MD | CHM Porcine Animal Model Development year 3 |
| 2024 | Mariya Moosajee, MBBS, BsC (Hons), PhD, FRCOphth, Consultant Ophthalmic Surgeon and Clinical Academic Ophthalmologist | University College, London, UK | Further development of CHM nonsense mutation readthrough compounds and maintenance of the CHM Mouse Colony |
| 2024 | Robert James Casson, MB, BS Hons, Professor of Ophthalmology, University of Adelaide and Kiora Pharmaceuticals | Kiora Pharmaceuticals, Encinitas, CA | Validation of functional vision testing in a population of patients with retinitis pigmentosa & choroideremia (ABACUS-1) |