CELEBRATING

Alzheimer's Disease Research

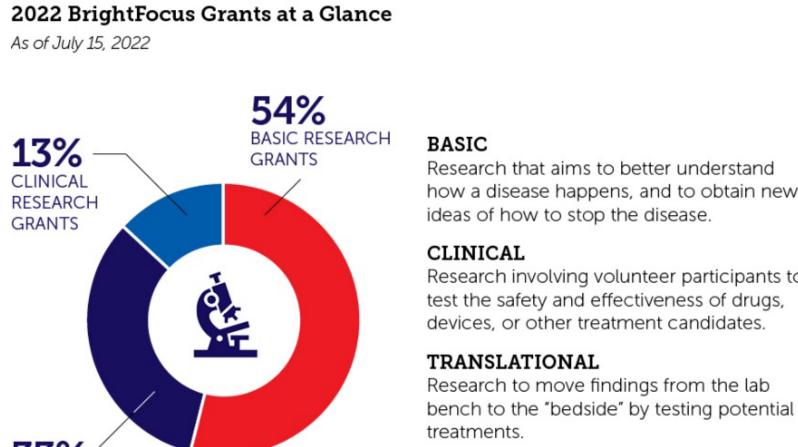
National Glaucoma Research

Macular Degeneration Research

Sharyn L. Rossi, PhD, Preeti Subramanian, PhD, and Diane E. Bovenkamp, PhD

FUNDING INNOVATIVE SCIENCE





Degeneration

Post-Doctoral Fellowship Award

Must be within 4 years of degree conferral

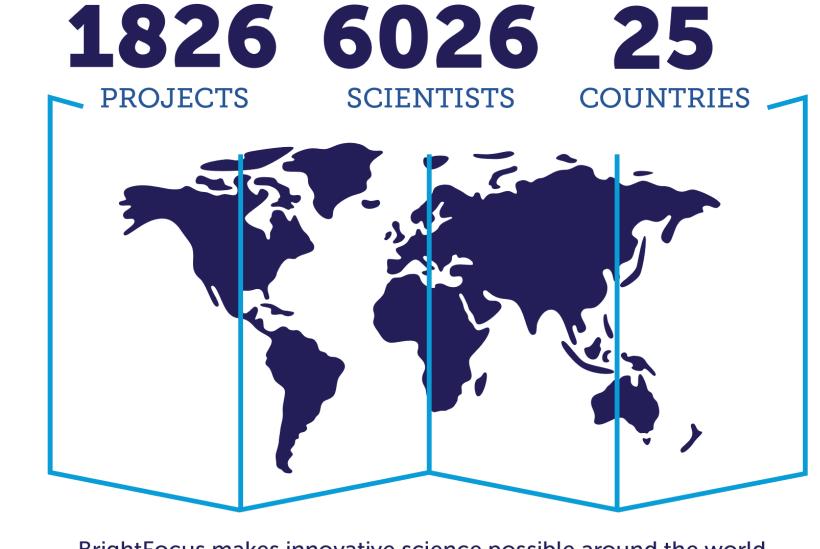
Must be within 10 years of degree conferral

\$100,000/year for 2 years

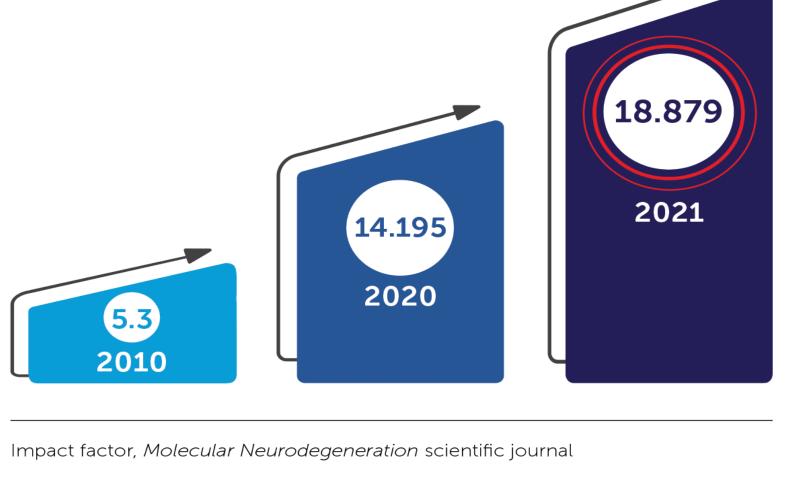
New Investigator Award

\$150,000/year for 3 years

Innovative Research Grant







NEURODEGENERATION

MOLECULAR

#1 open access neuroscience journal since 2013

#7 among 274 neuroscience journals

Only open access journal in the top 10 neuroscience journals





EDUCATING SCIENTISTS



th INTERNATIONAL SYMPOSIUM ON RETINAL

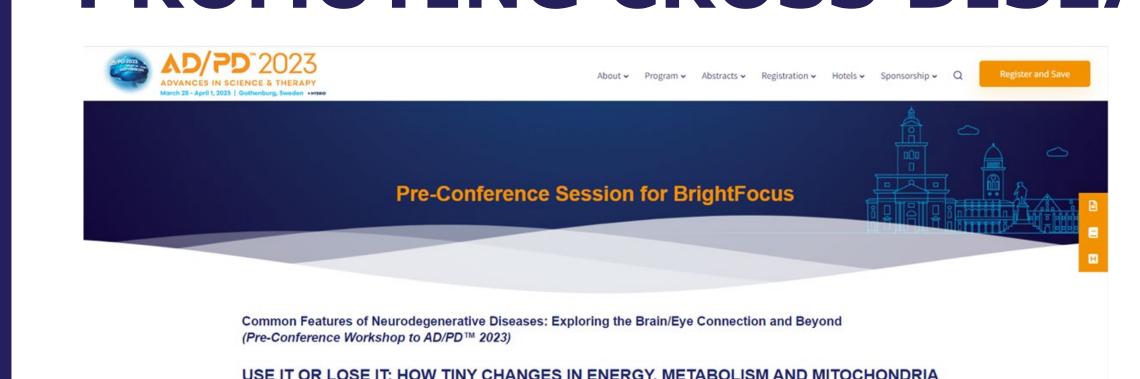








PROMOTING CROSS DISEASE RESEARCH



USE IT OR LOSE IT: HOW TINY CHANGES IN ENERGY, METABOLISM AND MITOCHONDRIA CAN LEAD TO NEURODEGENERATIVE DISEASE Tuesday, March 28, 2023 | 08:00 - 15:50 (CET) Co-Chairs: Diane Bovenkamp, Guojun Bu, Adriana Di Polo, Todd Golde

Optical Coherence Tomography Angiography Based Assessment of Retinal Neurological Disorders Capillary Density as a Biomarker of Vascular Cognitive Impairment and Dementia

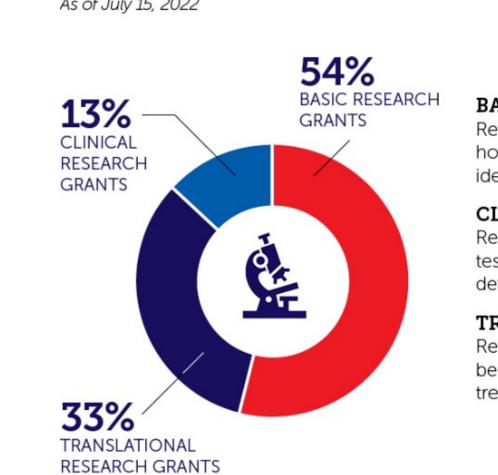
Lauren K. Wareham¹, Shane A. Liddelow², Sally Temple³, Larry I. Benowitz⁴, Adriana Di Polo⁵, Cheryl Wellington⁶ Jeffrey L. Goldberg⁷, Zhigang He⁸, Xin Duan⁹, Guojun Bu¹⁰, Albert A. Davis¹¹, Karthik Shekhar¹², Anna La Torre¹³, David C. Chan¹⁴, M. Valeria Canto-Soler¹⁶, John G. Flanagan¹⁵, Preeti Subramanian¹⁸, Sharyn Rossi¹⁸ Thomas Brunner¹⁷, Diane E. Bovenkamp¹⁸ and David J. Calkins^{1*} Across neurodegenerative diseases, common mechanisms may reveal novel therapeutic targets based on neuronal

mechanisms and strategies for new treatments

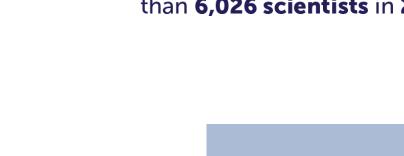
Solving neurodegeneration: common

protection, repair, or regeneration, independent of etiology or site of disease pathology. To address these mechanisms and discuss emerging treatments, in April, 2021, Glaucoma Research Foundation, BrightFocus Foundation, and the Melza M. and Frank Theodore Barr Foundation collaborated to bring together key opinion leaders and experts in the field of neurodegenerative disease for a virtual meeting titled "Solving Neurodegeneration". This "think-tank" style meeting focused on uncovering common mechanistic roots of neurodegenerative disease and promising targets fo new treatments, catalyzed by the goal of finding new treatments for glaucoma, the world's leading cause of irreversible blindness and the common interest of the three hosting foundations. Glaucoma, which causes vision loss through degeneration of the optic nerve, likely shares early cellular and molecular events with other neurodegenerative diseases of the central nervous system. Here we discuss major areas of mechanistic overlap between neurodegenerative diseases of the central nervous system; neuroinflammation, bioenergetics and metabolism, genetic contributions, and neurovascular interactions. We summarize important discussion points with emphasis on the research areas that are most innovative and promising in the treatment of neurodegeneration yet require further development. The research that is highlighted provides unique opportunities for collaboration that will lead to efforts in preventing neurodegeneration and ultimately vision loss. Keywords: Neurodegeneration, Alzheimer's Disease, Glaucoma, Parkinson's Disease, Huntington's Disease, Genetics, Metabolic stress, Neuro-regeneration, Neuro-replacement, Neurovascular coupling, Biomarker, Cell-replacement, Detection, Glia, Imaging, Model Systems, Organoids











\$75,000/year for 2 years

Must be within 4 years of degree conferral

Post-Doctoral Fellowship Award

Standard Award

\$100,000/year for 2 years

Disease Research



Post-Doctoral Fellowship Award

Standard Award

\$100,000/year for 2 years

Must be within 5 years of degree conferral

\$100,000/year for 3 years Must be allowed by institution to apply for and

manage a grant award and mentor students \$200,000/year for 3 years

COLLABORATING TO INCREASE REACH



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FOUNDATION
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