CJD Foundation Research Grant Program



CREUTZFELDT-JAKOB DISEASE FOUNDATION, INC.

Supporting Families Affected by Prion Disease



Research Grant Program

- Grants awarded each January to international recipients
- Topics include pathophysiology, molecular mechanisms, cell and animal disease models, diagnostics, clinical and translational research, studies identifying treatment targets or biomarkers, genetics, bioinformatics, or other areas related to human prion diseases
- Recipients present at CJDF Annual Family Conference
 18 months after receiving award
- Grants can be 1 Year (up to \$50K) or 2 year (up to \$100K) and fellowships are now available

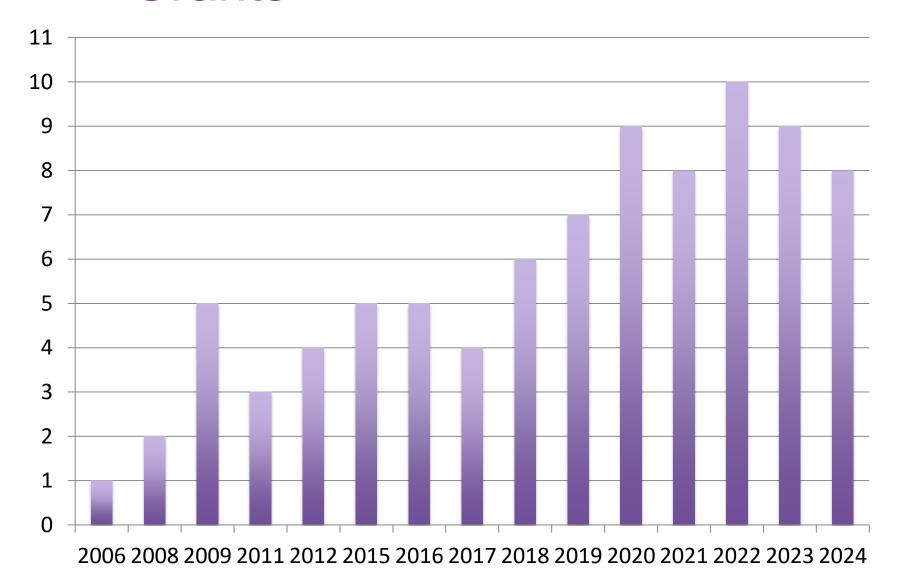


2024 Research Grants

- Awarded 6 grants and 2 fellowships in 2024 for a total of total 86 grants
- 2023 awardees presented reports in July 2024
- 2024 awardees will present reports in July 2025
- Funding for 2024/25 grants looks strong, thanks to Family Memorial Grants, donations to the CJD Foundation, and Strides for CJD events

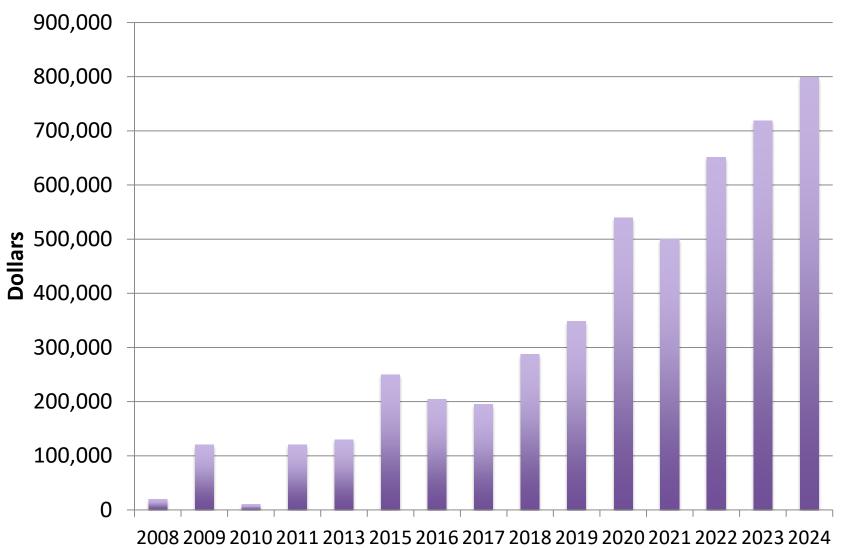


Number of CJDF Research Grants





Funds Awarded





Sources of Research Grant Funding

- Donations to the CJD Foundation
- Strides for CJD fundraising
- Memorial Grants

Grant Builders / families who host fundraisers



Research Grant Cycle

- Call for Applications from researchers: May 2024
- Applications reviewed by Scientific Advisory Committee: Summer/Fall 2024
- Donor signs grant agreement/raises funds: by September 2024
- CJDF awards grants to researchers: January 2025
- Researcher presents update at CJD Foundation Conference: July 2026



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About Prion Disease ▼

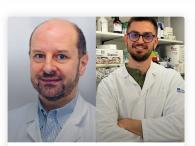
For Families -

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2024



Dr. Adriano Aguzzi and Davide Caredio

Grant Title:

Investigation of Glycoprotein Nonmetastatic Melanoma protein B (GPNMB) as potential therapeutic target in Prion Diseases

Location:



Joaquín Castilla, PhD

Grant Title:

from decontaminated medical and laboratory surfaces
Exploring the efficacy of dominant negative protein-based gene therapy for different prion diseases: in vivo proof of concent study

Detection of residual prions



Arielle Hay, Ph.D.

Grant Title:

Generating cerebral organoids from donors with sporadic Creutzfeldt-Jakob Disease

Location:

Postdoctoral Research Fellow at Rocky Mountain Laboratories, National Institutes of Health, Hamilton. Montana



Qingzhong Kong, PhD

Grant Title:

Development of ADAM8based Gene Therapy for CJD

Location:

NPDPSC, Case Western Reserve University **Grant Year:** 2024



Dr. Surabhi Mehra

Grant Title:

Understanding the molecular mechanism of spontaneous prion emergence in knock-in mouse models

Location:

Tanz Centre for Research in Neurodegenerative Diseases, University of Toronto



Thank You to All Who Support the Grants Program

- Donors to CJD Foundation and Strides for CJD
- Family Memorial Grant Funders
- Researchers
- Scientific Advisory Committee

Selected Highlights of Previously-Awarded CJD Foundation Research Grants

Joel Watts, PhD

Associate Professor
Canada Research Chair in Protein Misfolding Disorders
Tanz Centre for Research in Neurodegenerative Diseases
Department of Biochemistry, University of Toronto

CJD Foundation Family Conference July 21st, 2024

Development of an Anti-Mortem and Pre-Symptomatic Diagnostic Test for vCJD and Genetic Human Prion Diseases Using Real Time QuIC

- Grant recipient: Dr. Christina Orrú-Groveman
- Year: 2012



Development of an Anti-Mortem and Pre-Symptomatic Diagnostic Test for vCJD and Genetic Human Prion Diseases Using Real Time QuIC



RESEARCH ARTICLE

Bank Vole Prion Protein As an Apparently
Universal Substrate for RT-QuIC-Based
Detection and Discrimination of Prion Strains

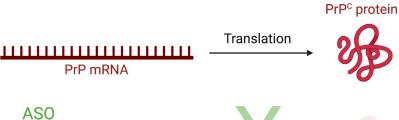
Christina D. Orrú^{1©}, Bradley R. Groveman^{1©}, Lynne D. Raymond¹, Andrew G. Hughson¹, Romolo Nonno², Wenquan Zou³, Bernardino Ghetti⁴, Pierluigi Gambetti³, Byron Caughey¹*

Antisense Oligonucleotides to delay or prevent onset of prion disease in mice

Grant recipient: Dr. Byron Cau

Year: 2016

 $DNA \longrightarrow mRNA \longrightarrow Protein$







Antisense Oligonucleotides to delay or prevent onset of prion disease in mice



RESEARCH ARTICLE

Antisense oligonucleotides extend survival of prion-infected mice

Gregory J. Raymond,¹ Hien Tran Zhao,² Brent Race,¹ Lynne D. Raymond,¹ Katie Williams,¹ Eric E. Swayze,² Samantha Graffam,³ Jason Le,³ Tyler Caron,³ Jacquelyn Stathopoulos,³ Rhonda O'Keefe,³ Lori L. Lubke,¹ Andrew G. Reidenbach,³ Allison Kraus,¹ Stuart L. Schreiber,³ Curt Mazur,² Deborah E. Cabin,⁴ Jeffrey B. Carroll,⁵ Eric Vallabh Minikel,¹,³,6,7 Holly Kordasiewicz,² Byron Caughey,¹ and Sonia M. Vallabh¹,3,6,7

PrProfile: A Study to Assess the Safety, Tolerability, Pharmacokinetics and Pharmacodynamics of ION717.

ClinicalTrials.gov ID ① NCT06153966

Sponsor ① Ionis Pharmaceuticals, Inc.

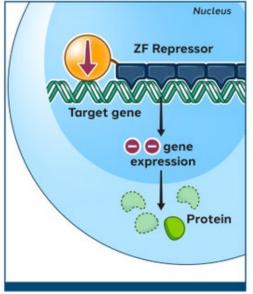
Information provided by 1 Ionis Pharmaceuticals, Inc. (Responsible Party)

Last Update Posted 1 2024-07-03

Assessing efficacy of zinc-finger repressors of prion protein as a therapeutic for prion disease

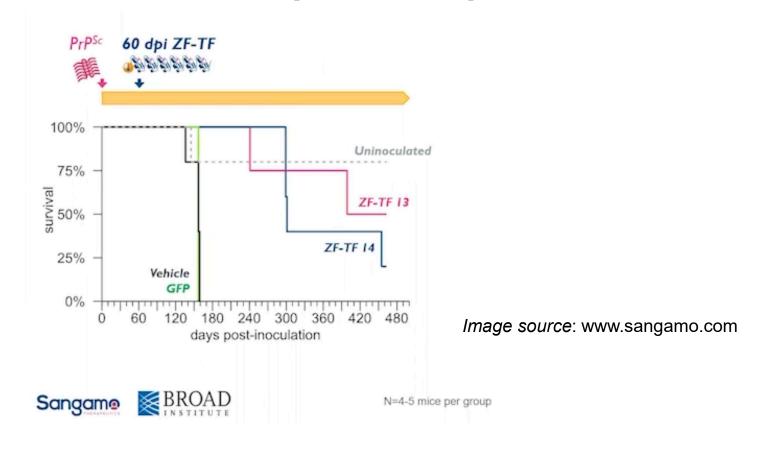
Grant recipient: Dr. Sonia Va

Year: 202





Assessing efficacy of zinc-finger repressors of prion protein as a therapeutic for prion disease



Take Home Messages

- Research funded through CJD Foundation Research Grants has led to advances in our ability to diagnose and treat human prion diseases
- Continued funding of fundamental and applied prion research is imperative!
- Research progress is not always linear and can take time
- Prion scientists are extremely grateful to the CJD Foundation as well as friends and family of those affected by CJD for their philanthropic and fundraising efforts that enable these research grants