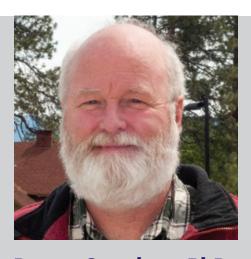# PROTEIN SEEDS AS PATHOGENS:
Prion diseases and prion-like features of Alzheimer's, Parkinson's and related diseases

Byron Caughey, PhD
Senior Investigator,
Rocky Mountain Laboratories,
National Institute of Allergy and
Infectious Diseases,
National Institutes of Health

Byron Caughey, PhD, is a biochemist and Senior Investigator at Rocky Mountain Laboratories, NIAID, NIH. His lab's research has focused mostly on prion diseases, including structure, transmissibility, diagnostics, and therapeutics. Their ultrasensitive RT-QuIC prion seed amplification assays have become the state-of-the-art in diagnosing prion diseases antemortem using CSF and nasal brushings with nearly 100% accuracy. More recently, the Caughey lab has been adapting the RT-QuIC platform to Alzheimer's, Parkinson's, and related diseases with tau or synuclein pathologies. Their recent studies with antisense oligonucleotides in prion disease animal models have shown for the first time that a single injection near the onset of clinical signs can markedly extend survival times for these otherwise untreatable diseases. Dr. Caughey is a Fellow of the American Academy of Microbiology and has authored more than 200 scientific papers.

Wednesday, February 20, 2019

3:00 - 4:00pm
Smilow Center for Translational Research
Arthur H. Rubenstein Auditorium
University of Pennyslvania
3400 Civic Center Blvd.
Phila., PA 19104

This event is free and open to the public, but registration is requested.

www.med.upenn.edu/aging

215-898-7801

aging@mail.med.upenn.edu

Institute on Aging
UNIVERSITY of PENNSYLVANIA