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asbub member spotlight

Reckwith Wins Waksman Award



Jonathan Rockwith, American Cancer Society Professor in the Department of Microbiology and Molecular Genetics at Harvard University, will receive the 2009 Solmen A. Weksmen Award in Microbiology from the National Academy of Sciences. Beckwith is being honored for fundamental contributions to gane regulation, protein targeting and secretion, disulfide biochemis-

try, and also for the development of gene fusions as an experimentol tool. The Waksman Award, established by the Foundation for Microbiology, recognizes excellence in the field of microbiology and includes a prize of \$5,000.

Beckwith uses genetics, biochemistry, and bioinformatics to study the properties and evolution of enzyme systems in bacteria that are important for protein folding, protein translocation, and responses to axidative stress. For these studies, he and his colleagues are defining the pathways of electron transfer that confer a reducing environment on the cytoplasm and an oxidizing environment on extra-cytoplasmic compertments. These include the alutethicro/aluteradoxin and thioradoxin pathways of F. colf. He is: also studying the mechanisms by which the enzymes DsbC and DsbD correct proteins that are misfolded as a result of formation of incorrect disultide bonds (NV)

Chu to Deliver **Eweson Award Lecture**



Charleen T. Chu has been named a Dorothy Dillon Ewpson I octurer on the Advances in Aging Respects for 2009, sponsored by the American Federation for Aging Research (AFAR) The Eweson Lockure Series on Advances in Aging Research was establilished in 1997 to enhance awareness of "cutting origo" research in point and age-related conditions at the forefront of scientific or medical specialty disciplines.

Chu's locture, entitled "In the PINK1: Mitochondrial Kinases and Autophedic Neurodegeneration," will be presented at the "Presidential Symposium on Resolving Cell Death and Inflammation: Implications in Disease," on April 20 in New Orleans. LA as part of the American Society of Investigative Pathology (ASIP) Annual Meeting at Experimental Ricingy 2009.

Chu is a neuropathology physician-scientist in the Department. of Pathology at the University of Pittsburgh, with second. ary appointments in Ophthalmology, Center for Neuroscience. Pittsburch Institute for Neurodegenerative Diseases, and McGowan Institute for Regenerative Medicine. Her research focuses on neuronal cell signaling in toxin and genetic models of Parkinson disease, implicating mitochondrial kinases and reactive oxygen species in regulating autophagy as a double-edged sword NV

Fichman Receives Young Investigator Award



Brandt F. Eichman, assistant professor of biological sciences and biochemistry at Vanderbilt University, has been honored with Sigma XI's Young Investigator Award

Eichman is recognized as a leader in research into the structural biology of celluter machinisms that maintain DNA fidality. The Young Investigator Award has been presented annually since 1996. Sigma XI mombers within 10 years of their highest partner degree are pligble.

for the award, which recognizes excellence in research. It includes a certificate of recognition and a \$5,000 honorarium. The recipient is also invited to present a lecture at the Sigma Xi Annual Meeting. Fichmen's present interests include structural biology, biophys. ics, and biochemistry of proteins and protein-nucleic acid complexes. recognize and manipulate DNA structure during replication and repair processes, which are critical for the prevention of genetic dispress and cancer. Eichman and his colleagues use X-ray crystallography and biochemistry to investigate the physical and mechanistic basis for the biological functions of several DNA processing enzymes. NV

Horwich Presented with Horwitz Prize



of Genetics, professor of pediatrics, and a Howard Hughes Medical Institute (HHMI) investigator at Yale University School of Medicine, has been awarded the 2008 Louisa Gross Horwitz Prize from Columbia University

Horwich shares the prize with F. Ulrich Harti, professor and director of the Department of Cellular Biochemistry at the Max Planck Institute of

fundamental understanding of collular protein folding, and its role in Alzheimer disease, Huntington disease, cystic fibrosis, and other Its-threatening diseases.

Proviously, it was thought that proteins spontaneously fold themselves into their final, three-dimensional structures. Hartl and Horwich discovered that inside cells, proteins need assistance from chaperones to guide the folding process and ensure they fold into the proper shape. In independent and often complementary work. they also established the pathway and molecular mechanisms involved in this process. Their work also demonstrated that when the protein folding pathway is imperfect, protein can accumulate in cells, leading to disease.

Biochemistry in Germany, for their collaborative work in expanding

The Louisa Gross Horwitz Prizo was established by Columbia University to recognize outstanding contributions to basic research in the fields of biology and biochemistry. Awarded annually since 1967. The prize is named for the mother of Columbia handwriter. S. Gross Horwitz, NV