Science Sessions

Welcome to Science Sessions, the new PNAS podcast program.

Listen to brief, 5-minute, nontechnical conversations with cutting-edge researchers, Academy members, and policy makers as they discuss topics relevant to today's scientific community. Learn the behind-the-scenes story of work published in PNAS, plus a broad range of scientific news about discoveries that affect the world around us.

Thank you for visiting and please check back often for newly added podcasts.

Introduction by Kaspar Mossman, PNAS Science Writer

PNAS Science Sessions

- **Recently Recorded Science Sessions**
  - Science Sessions with John G. Hildebrand
  - Science Sessions with the 2007 Cozzarelli Prize winners

Science Sessions with recently elected members of the National Academy of Sciences

John Hildebrand 

John G. Hildebrand was elected to the National Academy of Sciences in 2007 for his work in animal, nutritional, and applied microbial sciences. His work on the functional organization, physiology, and development of the central olfactory system of insects has made him a pioneer in analyzing neural mechanisms underlying chemosensory control of mating behavior and insect-plant interactions. This work has application in disruption of insect mating behavior and herbivory, with practical benefit to human health and welfare. Image courtesy of the University of Arizona.

Science Sessions with the Six 2007 Cozzarelli Prize Winners

Listen to interviews with authors of the six 2007 Cozzarelli Prize-winning papers. The Cozzarelli Prize was established in 2005 as the PNAS Paper of the Year Prize and renamed in 2007 to honor late Editor-in-Chief Nicholas R. Cozzarelli. The annual award acknowledges papers published in PNAS during the previous year that reflect exceptional contributions in each of the six broadly defined classes under which the National Academy of Sciences is organized.

The Cozzarelli Prize-winning papers were chosen from more than 3,600 research articles published by PNAS in 2007. The 2007 awards were presented at the PNAS Editorial Board Meeting on April 27, 2008, in Washington, DC.

Introduction to Science Sessions: Cozzarelli Prize, by Jonathan Lifland, Media and Communications Manager, PNAS

Physical and Mathematical Sciences

Kenneth A. Dawson

- "Understanding the nanoparticle–protein corona using methods to quantify exchange rates and affinities of proteins for nanoparticles"

Biomedical Sciences

Brian Spencer

- "Targeted delivery of proteins across the blood–brain barrier"

by Brian J. Spencer and Inder M. Verma

by Tommy Cedervall, Iseult Lynch, Stina Lindman, Tord Berggård, Eva Thulin, Hanna Nilsson, Kenneth A. Dawson, and Sara Linse

Biological Sciences

- Andreas Reichenbach "Müller cells are living optical fibers in the vertebrate retina"

by Kristian Franze, Jens Grosche, Serguei N. Skatchkov, Stefan Schinkinger, Christian Foja, Detlev Schild, Ortrud Uckermann, Kort Travis, Andreas Reichenbach, and Jochen Guck

Behavioral and Social Sciences

- R. Adriana Hernandez-Aguilar "Savanna chimpanzees use tools to harvest the underground storage organs of plants"

by R. Adriana Hernandez-Aguilar, Jim Moore, and Travis Rayne Pickering

Engineering and Applied Sciences

- Monica Olvera de la Cruz "Faceting ionic shells into icosahedra via electrostatics"

by Graziano Vernizzi and Monica Olvera de la Cruz

Applied Biological, Agricultural, and Environmental Sciences

- Sandra Diaz "Incorporating plant functional diversity effects in ecosystem service assessments"

by Sandra Díaz, Sandra Lavorel, Francesco de Bello, Fabien Quétier, Karl Grigulis, and T. Matthew Robson

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[7/08]