Previous years Heller lectures

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Archive list and videos of Heller lectures from previous years.

What the perceptual expert cannot tell you
Prof. Isabel Gauthier (Professor of Psychology Vanderbilt University, Nashville)

Plasticity in the brain is not always good: examples from hearing impairment
Prof. Eric Young (Professor of Biomedical Engineering & Neuroscience John Hopkins University, Baltimore)

Time and belief: A neural mechanism of decision making
Prof. Michael Shadlen (Professor of Physiology & Biophysics Howard Hughes Medical Institute, University of Washington, Seattle)

The nature and control of blood flow in the brain
Prof. David Kleinfeld (Professor of Physics & Neuroscience UC San Diego)

Flying with Drosophila in the face of neurodegenerative disease
Prof. Nancy Bonini (Howard Hughes Medical Institute, Department of Biology University of Pennsylvania)

How does the brain navigate in space
Edvard I. Moser (Kavli Institute for Systems Neuroscience, NTNU, Trondheim, Norway)
January 05, 2010
Intelligence and Learning in Brains and Machines
Speaker: Tomas Poggio (Center for Biological & Computational Learning McGovern Institute Computer Science and Artificial Intelligence Laboratory Department of Brain and Cognitive Sciences Massachusetts Institute of Technology)

October 27, 2009
The beginnings of optogenetics
Speaker: Prof. Gero Miesenboeck (Waynflete Professor of Physiology at the University of Oxford)

June 09, 2009
Integrating neuroscience knowledge: Brain research in the digital age
Speaker: Prof. Mark Ellisman (Director of the National Center for Microscopy and Imaging Research, University of California San Diego, USA)

May 26, 2009
Eyes smarter than scientists believed: Neural computations in the retina
Speaker: Prof. Markus Meister (Center for Brain Science, Harvard University, Cambridge, USA)

April 21, 2009
How experience changes the circuitry of the brain
Speaker: Prof. Tobias Bonhoeffer (Director, Max Planck Institute of Neurobiology, Munich - Germany)

July 29, 2008
The Social Brain: Perception, Motion and Emotion
Speaker: Prof. Gregory McCarthy (Department of Psychology, Yale University, USA)

July 15, 2008
Does bigger mean better? Intersubject variability in human brain anatomy
Speaker: Prof. Dr. Katrin Amunts (Institute of Medicine, Research Center Jülich & Department of Psychiatry, RWTH University, Aachen, Germany)

June 01, 2008
Mirror neurons: a mechanism for understanding others
Speaker: Prof. Giacomo Rizzolatti M.D. (Department of Neuroscience, University of Parma, Italy)

May 13, 2008
The Stuff of Thought: Language as a Window into Human Nature
Speaker: Prof. Steven Pinker (Harvard University)
Human Prefrontal Cortex and Behavior
Speaker: Prof. Robert T. Knight (M.D. Helen Wills Neuroscience Institute and Department of Psychology, University of California, Berkeley)

Mechanisms of learning in the auditory system of the barn owl
Speaker: Prof. Eric Knudsen (Department of Neurobiology, Stanford University)

Human CNS Pain Pathways and Networks
Speaker: Prof. Fred Lenz (The Johns Hopkins Hospital, Department of Neurosurgery, Baltimore - USA)

Measuring time - the ultimate challenge for sensory systems
Speaker: Prof. Benedikt Grothe (Director, Department Biology II, Faculty of Biology Ludwig-Maximilians University - Munich)

A Critique of Pure Vision
Speaker: Prof. Terrence J. Sejnowski (Head of the Computational Neurobiology Laboratory The Salk Institute for Biological Studies, San Diego Calif. - USA)

PATTERN CLASSIFICATION: LESSONS FROM OLFACTION
Speaker: Prof. Gilles Laurent (Division of Biology, computation and Neural Systems, Caltech, USA)

The self-tuning brain: homeostatic plasticity in neural microcircuits
Speaker: Prof. Gina Turrigiano (Volen Center for Complex Systems, Brandeis University, USA)

The Art of Neuroscience
Speaker: Prof. Kevan Martin (Institute of Neuroinformatics University - ETH Zurich)

Our Habitual Lives: How the Brain Makes and Breaks Habits
Speaker: Prof. Ann M. Graybiel (Department of Brain and Cognitive Sciences, McGovern Institute for Brain Research at MIT)
Computing and tracing its wires: new methods to solve old riddles
Prof. Winfried Denk (Max-Planck Institute for Medical Research -Department of Biomedical Optics)

Controlling dynamics, kinematics and final position in reaching
Prof. Claude P. Ghez, M.D. (Columbia University, Center for Neurobiology and Behavior)

Computing with Neural Ensembles
Prof. Miguel A. L. Nicolelis (Department of Neurobiology, Duke University Medical Center)

Experience-dependent Modification of Developing Neural Circuits
Prof. Mu-ming Poo (Department of molecular and Cell Biology University of California, Berkeley)

The Quest for Consciousness: A Neurobiological Approach
Prof. Christof Koch (Computation and Neural Systems, Caltech)

The Dynamic Origin of Consciousness
Prof. Rodolfo Linas (School of Medicine, Physiology and Neuroscience NYU ? New York City, USA)

Inside the Songbird’s Brain: The Neural Control of Vocalization
Prof. Michale Fee (MIT)

.How the Brain Generates Consciousness?
Baroness Prof. Susan Greenfield (Director of the Royal Institution of Great Britain, Professor of Pharmacology, Oxford)
Cortical Microcircuits and their Plasticity

Speaker:

Prof. Bert Sakmann
((Noble Laureate), Max Planck Institute, Heidelberg, Germany.)

10 October, 2002

Basal Ganglia and Cerebellar 'Loops' with the Cerebral Cortex: Circuits for Movement, Cognition and Perception

Speaker:

Prof. Peter Strick
(VA Senior Research Career Scientist, Pittsburgh University, Veterans Affairs Medical Center and Co-Director, Center for Neural Basis of Cognition and Perception, University of Pittsburgh)

30 May, 2002

Tracking the Spotlight of Attention: Psychophysics and Physiological Mechanisms

Speaker:

Prof. Michael E. Goldberg
(Department of Neurobiology, Psychiatry and the Center for Neurobiology and Behavior, College of Physicians and Surgeons.)

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