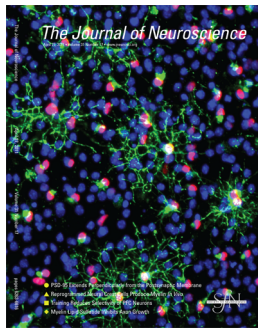


The Journal of Neuroscience

April 27, 2011 • Volume 31 Number 17 • www.jneurosci.org



Cover legend: Reprogrammed neural crest stem cells derived from postnatal mouse dorsal root ganglion, expanded as neurospheres and differentiated into oligodendrocyte-like cells *in vitro*. Neurosphere cells differentiate into O4-positive cells (green) that coexpress Olig2 (red), a CNS-specific transcription factor of the oligodendroglial lineage, and display an oligodendrocyte-like morphology. Nuclei are stained with DAPI. For more information, see the article by Binder et al. in this issue (pages 6379–6391).

i This Week in The Journal

Journal Club

- 6263 **Emerging Evidence of Connectomic Abnormalities in Schizophrenia**
Mikail Rubinov and Danielle S. Bassett

Brief Communications

- 6289 **Integrin Activation Promotes Axon Growth on Inhibitory Chondroitin Sulfate Proteoglycans by Enhancing Integrin Signaling**
Chin Lik Tan, Jessica C. F. Kwok, Rickie Patani, Charles ffrench-Constant, Siddharthan Chandran, and James W. Fawcett
- 6305 **Role of the Hypocretin (Orexin) Receptor 2 (Hcrtr-2) in the Regulation of Hypocretin Level and Cataplexy**
Ming-Fung Wu, Robert Nienhuis, Nigel Maidment, Hoa A. Lam, and Jerome M. Siegel
- 6311 **Molecular Determinants Controlling NMDA Receptor Synaptic Incorporation**
Granville P. Storey, Ximena Opitz-Araya, and Andres Barria
- 6392 **Impairment of Select Forms of Spatial Memory and Neurotrophin-Dependent Synaptic Plasticity by Deletion of Glial Aquaporin-4**
Vanessa A. Skucas, Ian B. Mathews, Jianmin Yang, Qi Cheng, Andrew Treister, Aine M. Duffy, Alan S. Verkman, Barbara L. Hempstead, Marcelo A. Wood, Devin K. Binder, and Helen E. Scharfman
- 6398 **Dissociable Effects of Lesions to Orbitofrontal Cortex Subregions on Impulsive Choice in the Rat**
Adam C. Mar, Alice L. J. Walker, David E. Theobald, Dawn M. Eagle, and Trevor W. Robbins

Articles

CELLULAR/MOLECULAR

- 6277 **β -Adrenergic Receptor Antagonism Prevents Anxiety-Like Behavior and Microglial Reactivity Induced by Repeated Social Defeat**
Eric S. Wohleb, Mark L. Hanke, Angela W. Corona, Nicole D. Powell, La'Tonia M. Stiner, Michael T. Bailey, Randy J. Nelson, Jonathan P. Godbout, and John F. Sheridan
- 6329 **PSD-95 Is Required to Sustain the Molecular Organization of the Postsynaptic Density**
Xiaobing Chen, Christopher D. Nelson, Xiang Li, Christine A. Winters, Rita Azzam, Alioscka A. Sousa, Richard D. Leapman, Harold Gainer, Morgan Sheng, and Thomas S. Reese

- 6468 **Axon Formation in Neocortical Neurons Depends on Stage-Specific Regulation of Microtubule Stability by the Dual Leucine Zipper Kinase– c-Jun N-Terminal Kinase Pathway**
Syu-ichi Hirai, Yumi Banba, Tomoko Satake, and Shigeo Ohno
- 6565 **Protein Kinase C-Mediated Phosphorylation of a Single Serine Residue on the Rat Glial Glutamine Transporter SN1 Governs Its Membrane Trafficking**
Lise Sofie H. Nissen-Meyer, Mark C. Popescu, El Hassan Hamdani, and Farrukh A. Chaudhry
- 6605 **Dopamine Transport by the Serotonin Transporter: A Mechanistically Distinct Mode of Substrate Translocation**
Mads Breum Larsen, Mark S. Sonders, Ole Valente Mortensen, Gaynor A. Larson, Nancy R. Zahniser, and Susan G. Amara

DEVELOPMENT/PLASTICITY/REPAIR

- 6379 **Peripheral Nervous System Progenitors Can Be Reprogrammed to Produce Myelinating Oligodendrocytes and Repair Brain Lesions**
Ellen Binder, Marion Rukavina, Hessameh Hassani, Marlen Weber, Hiroko Nakatani, Tobias Reiff, Carlos Parras, Verdon Taylor, and Hermann Rohrer
- 6440 ***Gli3* is Required for Maintenance and Fate Specification of Cortical Progenitors**
Hui Wang, Guannan Ge, Yutaka Uchida, Brian Luu, and Sohyun Ahn
- 6457 **Development, Maturation, and Necessity of Transcription Factors in the Mouse Suprachiasmatic Nucleus**
Cassandra VanDunk, Lindsay A. Hunter, and Paul A. Gray
- 6493 **The Canonical Nuclear Factor- κ B Pathway Regulates Cell Survival in a Developmental Model of Spinal Cord Motoneurons**
Stefka Mincheva, Ana Garcera, Myriam Gou-Fabregas, Mario Encinas, Xavier Dolcet, and Rosa M. Soler
- 6576 **β 3GnT2 Maintains Adenylyl Cyclase-3 Signaling and Axon Guidance Molecule Expression in the Olfactory Epithelium**
Timothy R. Henion, Ashley A. Faden, Thomas K. Knott, and Gerald A. Schwarting

BEHAVIORAL/SYSTEMS/COGNITIVE

- 6266 **Stimulus Selectivity in Dorsal and Ventral Prefrontal Cortex after Training in Working Memory Tasks**
Travis Meyer, Xue-Lian Qi, Terrence R. Stanford, and Christos Constantinidis
- 6296 **Human Dorsal Striatal Activity during Choice Discriminates Reinforcement Learning Behavior from the Gambler's Fallacy**
Ryan K. Jessup and John P. O'Doherty
- 6317 **Caudal Granular Insular Cortex Is Sufficient and Necessary for the Long-Term Maintenance of Allodynic Behavior in the Rat Attributable to Mononeuropathy**
Alexander M. Benison, Serhiy Chumachenko, Jacqueline A. Harrison, Steven F. Maier, Scott P. Falci, Linda R. Watkins, and Daniel S. Barth
- 6339 **Elapsed Decision Time Affects the Weighting of Prior Probability in a Perceptual Decision Task**
Timothy D. Hanks, Mark E. Mazurek, Roozbeh Kiani, Elisabeth Hopp, and Michael N. Shadlen
- 6353 **Biophysical Mechanisms of Multistability in Resting-State Cortical Rhythms**
Frank Freyer, James A. Roberts, Robert Becker, Peter A. Robinson, Petra Ritter, and Michael Breakspear

- 6362 **Nucleus Accumbens μ -Opioid Receptors Mediate Social Reward**
Viviana Trezza, Ruth Damsteegt, E. J. Marijke Achterberg,
and Louk J. M. J. Vanderschuren
- 6371 **Trait-Like Characteristics of the Sleep EEG across Adolescent Development**
Leila Tarokh, Mary A. Carskadon, and Peter Achermann
- 6405 **Variability of Brain Signals Processed Locally Transforms into Higher Connectivity with Brain Development**
Vasily A. Vakorin, Sarah Lippé, and Anthony R. McIntosh
- 6414 **State-Dependent Representation of Amplitude-Modulated Noise Stimuli in Rat Auditory Cortex**
Stephan L. Marguet and Kenneth D. Harris
- 6421 **Protein Kinase M Maintains Long-Term Sensitization and Long-Term Facilitation in *Aplysia***
Diancai Cai, Kaycey Pearce, Shanping Chen, and David L. Glanzman
- 6432 **Anisotropic Distribution of Thalamocortical Boutons in Barrels**
Takahiro Furuta, Martin Deschênes, and Takeshi Kaneko
- 6504 **Chromatic Bipolar Cell Pathways in the Mouse Retina**
Tobias Breuninger, Christian Puller, Silke Haverkamp, and Thomas Euler
- 6518 **Differential Roles of Orexin Receptor-1 and -2 in the Regulation of Non-REM and REM Sleep**
Michihiro Mieda, Emi Hasegawa, Yaz Y. Kisanuki, Christopher M. Sinton, Masashi Yanagisawa, and Takeshi Sakurai
- 6527 **Distinct Visual Pathways Mediate *Drosophila* Larval Light Avoidance and Circadian Clock Entrainment**
Alex C. Keene, Esteban O. Mazzoni, Jamie Zhen, Meg A. Younger, Satoko Yamaguchi, Justin Blau, Claude Desplan, and Simon G. Sprecher
- 6535 **An Equivalent Noise Investigation of Saccadic Suppression**
Tamara Watson and Bart Krekelberg
- 6542 **Gap Junctions between Interneurons Are Required for Normal Spatial Coding in the Hippocampus and Short-Term Spatial Memory**
Kevin Allen, Elke C. Fuchs, Hannah Jaschonek, David M. Bannerman, and Hannah Monyer
- 6595 **How Soft Is That Pillow? The Perceptual Localization of the Hand and the Haptic Assessment of Contact Rigidity**
Assaf Pressman, Amir Karniel, and Ferdinando A. Mussa-Ivaldi

NEUROBIOLOGY OF DISEASE

- 6449 **Impaired Limbic Gamma Oscillatory Synchrony during Anxiety-Related Behavior in a Genetic Mouse Model of Bipolar Mania**
Kafui Dzirasa, DeAnna L. McGarity, Anirban Bhattacharya, Sunil Kumar, Joseph S. Takahashi, David Dunson, Colleen A. McClung, and Miguel A. L. Nicolelis
- 6481 **The Lipid Sulfatide Is a Novel Myelin-Associated Inhibitor of CNS Axon Outgrowth**
Alissa M. Winzeler, Wim J. Mandemakers, Matthew Z. Sun, Melissa Stafford, Carolyn T. Phillips, and Ben A. Barres
- 6553 **Reduction of an Afterhyperpolarization Current Increases Excitability in Striatal Cholinergic Interneurons in Rat Parkinsonism**
Gonzalo Sanchez, Mariano Julian Rodriguez, Pablo Pomata, Lorena Rela, and Mario Gustavo Murer

6587 **The Diabetes Drug Liraglutide Prevents Degenerative Processes in a Mouse Model of Alzheimer's Disease**

Paula L. McClean, Vadivel Parthasarathy, Emilie Faivre, and Christian Hölscher

Persons interested in becoming members of the Society for Neuroscience should contact the Membership Department, Society for Neuroscience, 1121 14th St., NW, Suite 1010, Washington, DC 20005, phone 202-962-4000.

Instructions for Authors are available at <http://www.jneurosci.org/misc/itoa.shtml>. Authors should refer to these Instructions online for recent changes that are made periodically.

Brief Communications Instructions for Authors are available via Internet (http://www.jneurosci.org/misc/ifa_bc.shtml).

Submissions should be submitted online using the following url: <http://jneurosci.msubmit.net>. Please contact the Central Office, via phone, fax, or e-mail with any questions. Our contact information is as follows: phone, 202-962-4000; fax, 202-962-4945; e-mail, jn@sfn.org.