



Cover legend: These images show differences in brain activity between connected (externally focused) and disconnected (internally focused) states of consciousness. A central core network of consciousness was revealed by imaging anesthetic- and sleep-induced transitions in states of consciousness. Cool colors show the largest and warm colors the smallest relative suppression upon becoming disconnected (left columns) and warm colors show the largest and cool colors the smallest relative activation upon becoming connected (right columns). For more information, see the article by Scheinin et al. (pages 1769–1778).
Cover image: Oskari Kantonen.

1621 This Week in The Journal

Journal Club

- 1622 **An Auditory Phantom Percept That Does Not Impair External Sound Perception**
Kameron K. Clayton and Elouise A. Koops

Research Articles

CELLULAR/MOLECULAR

- 1625 **Phase-Locking Requires Efficient Ca^{2+} Extrusion at the Auditory Hair Cell Ribbon Synapse**
Adolfo E. Cuadra, Fuu-Jiun Hwang, Lindsay M. Burt, William C. Edmonds, Anastasia V. Chobany, and Geng-Lin Li
- 1636 **Tuba Activates Cdc42 during Neuronal Polarization Downstream of the Small GTPase Rab8a**
Pamela J. Urrutia, Felipe Bodaleo, Daniel A. Bórquez, Yuta Homma, Victoria Rozes-Salvador, Cristopher Villablanca, Cecilia Conde, Mitsunori Fukuda, and Christian González-Billault

DEVELOPMENT/PLASTICITY/REPAIR

- 1650 **The Wnt Effector TCF7L2 Promotes Oligodendroglial Differentiation by Repressing Autocrine BMP4-Mediated Signaling**
Sheng Zhang, Yan Wang, Xiaoqing Zhu, Lanying Song, Xinhua Zhan, Edric Ma, Jennifer McDonough, Hui Fu, Franca Cambi, Judith Grinspan, and Fuzheng Guo

SYSTEMS/CIRCUITS

- 1665 **Comprehensive Estimates of Potential Synaptic Connections in Local Circuits of the Rodent Hippocampal Formation by Axonal-Dendritic Overlap**
Carolina Tecuatl, Diek W. Wheeler, Nate Sutton, and Giorgio A. Ascoli
- 1684 **Neural Population Dynamics Underlying Expected Value Computation**
Hiroshi Yamada, Yuri Imaizumi, and Masayuki Matsumoto

BEHAVIORAL/COGNITIVE

- 1699 **Right Temporoparietal Junction Underlies Avoidance of Moral Transgression in Autism Spectrum Disorder**
Yang Hu, Alessandra M. Pereira, Xiaoxue Gao, Brunno M. Campos, Edmund Derrington, Brice Corgnet, Xiaolin Zhou, Fernando Cendes, and Jean-Claude Dreher

- 1716 **Signed Reward Prediction Errors in the Ventral Striatum Drive Episodic Memory**
Cristian B. Calderon, Esther De Loof, Kate Ergo, Anna Snoeck, Carsten N. Boehler, and Tom Verguts
- 1727 **Frontotemporal Regulation of Subjective Value to Suppress Impulsivity in Intertemporal Choices**
Stefan Dürschmid, Andre Maric, Marcel S. Kehl, Robert T. Knight, Hermann Hinrichs, and Hans-Jochen Heinze
- 1738 **Age-Related Increases in Posterior Hippocampal Granularity Are Associated with Remote Detailed Episodic Memory in Development**
Bridget Callaghan, Camille Gasser, Jennifer A. Silvers, Michelle VanTieghem, Tricia Choy, Kaitlin O'Sullivan, Alexa Tompary, Lila Davachi, and Nim Tottenham
- 1755 **Contribution of the Pulvinar and Lateral Geniculate Nucleus to the Control of Visually Guided Saccades in Blindsight Monkeys**
Norihiro Takakuwa, Kaoru Isa, Hirotaka Onoe, Jun Takahashi, and Tadashi Isa
- 1769 **Foundations of Human Consciousness: Imaging the Twilight Zone**
Annalotta Scheinin, Oskari Kantonen, Michael Alkire, Jaakko Långsjö, Roosa E. Kallionpää, Kaike Kaisti, Linda Radek, Jarkko Johansson, Nils Sandman, Mikko Nyman, Mika Scheinin, Tero Vahlberg, Antti Revonsuo, Katja Valli, and Harry Scheinin
- 1779 **$\alpha 3^*$ Nicotinic Acetylcholine Receptors in the Habenula-Interpeduncular Nucleus Circuit Regulate Nicotine Intake**
Karim S. Elayouby, Masago Ishikawa, Angeline J. Dukes, Alexander C.W. Smith, Qun Lu, Christie D. Fowler, and Paul J. Kenny
- 1788 **Motor Interference, But Not Sensory Interference, Increases Midfrontal Theta Activity and Brain Synchronization during Reactive Control**
Jakob Kaiser and Simone Schütz-Bosbach
- 1802 **Covert Attention Increases the Gain of Stimulus-Evoked Population Codes**
Joshua J. Foster, William Thyer, Janna W. Wennberg, and Edward Awh
- 1816 **Focal Sleep Spindle Deficits Reveal Focal Thalamocortical Dysfunction and Predict Cognitive Deficits in Sleep Activated Developmental Epilepsy**
Mark A. Kramer, Sally M. Stoyell, Dhinakaran Chinappen, Lauren M. Ostrowski, Elizabeth R. Spencer, Amy K. Morgan, Britt Carlson Emerton, Jin Jing, M. Brandon Westover, Uri T. Eden, Robert Stickgold, Dara S. Manoach, and Catherine J. Chu

NEUROBIOLOGY OF DISEASE

- 1830 **Complement Drives Synaptic Degeneration and Progressive Cognitive Decline in the Chronic Phase after Traumatic Brain Injury**
Ali Alawieh, Reda M. Chalhoub, Khalil Mallah, E. Farris Langley, Mikaela York, Henry Broome, Christine Couch, DeAnna Adkins, and Stephen Tomlinson
- 1844 **Erratum:** The article "Sleep Differentially Affects Early and Late Neuronal Responses to Sounds in Auditory and Perirhinal Cortices" by Yaniv Sela, Aaron Joseph Krom, Lottem Bergman, Noa Regev, and Yuval Nir, appeared on pages 2895–2905 of the April 1, 2020 issue. An erratum for this article appears on page 1844.
- 1845 **Erratum:** The article "The Hippocampal Film Editor: Sensitivity and Specificity to Event Boundaries in Continuous Experience," by Aya Ben-Yakov and Richard Henson, appeared on pages 10057–10068 of the November 21, 2018 issue. An erratum for this article appears on page 1845.

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