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RESEARCH ARTICLE
628 Secreting and Sensing the Same Molecule Allows Cells to Achieve Versatile Social Behaviors
H. Youk and W. A. Lim
The etiquette of yeast cells that secrete signals that influence themselves and their neighbors is explored.
Research Article Summary; for full text: http://dx.doi.org/10.1126/science.1242782
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REPORTS
629 Classification of Interacting Electronic Topological Insulators in Three Dimensions
C. Wang et al.
Six symmetry-protected topological phases that have no counterpart in noninteracting systems are identified.
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D. Laroche et al.
An upturn in the temperature dependence of the drag resistance of two closely-spaced conducting wires is observed.
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G. Meng et al.
Constant-background Gaussian curvature alters crystal growth and favors the formation of anisotropic, ribbon-like domains.
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I. J. Larsen et al.
Fast weathering rates in the New Zealand Alps point to a strong influence of tectonic processes on global climate.
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641 Periodic Variability in the Large-Scale Southern Hemisphere Atmospheric Circulation
D. W. J. Thompson and E. A. Barnes
Large-scale atmospheric circulation in the Southern Hemisphere oscillates on a time scale of roughly 20 to 30 days.
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645 A Promiscuous Intermediate Underlies the Evolution of LEAFY DNA Binding Specificity
C. Sayou et al.
Comparative and structural studies reveal how an essential plant transcription factor evolved different specificities.
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649 PCP and Septins Compartmentalize Cortical Actomyosin to Direct Collective Cell Movement
A. Shindo and J. B. Wallingford
A mechanism is revealed for orchestrated cell movement during gastrulation in Xenopus.
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S. B. Van Engelenburg et al.
ESCRT-III proteins scaffold within assembling HIV particles to mediate viral membrane abscission.
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R. K. Grover et al.
High-affinity binding of Protein M to a very broad range of human antibodies may find widespread immunochromical applications.
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R. J. Johnston Jr. and C. Desplan
A stochastic, cell-autonomous decision to express a particular transcription factor is nevertheless coordinated.
665 Loose Coupling Between Ca** Channels and Release Sensors at a Plastic Hippocampal Synapse
N. P. Vyژeta and P. Jonas
The mossy fiber to the CA3 synapse operates via loose calcium microdomains established by local calcium buffering.
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J. Glykys et al.
Imaging of a fluorescent chloride indicator reveals a role for impermeant anions in setting intraneuronal chloride levels.
675 Oxytocin-Mediated GABA Inhibition During Delivery Attenuates Autism Pathogenesis in Rodent Offspring
R. Tyrzi et al.
Maternal administration of bumetanide before delivery reduces the autistic phenotype in rodent models of autism.
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