COVER

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RESEARCH ARTICLE

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.

653  Distribution of ESCRT Machinery at HIV Assembly Sites Reveals Virus Scaffolding of ESCRT Subunits
S. B. Van Engelenburg et al.
ESCRT-II proteins scaffold within assembling HIV particles to mediate viral membrane abscission.

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.

631  1D–1D Coulomb Drag Signature of a Luttinger Liquid
D. Laroche et al.
An upturn in the temperature dependence of the drag resistance of two closely-spaced conducting wires is observed.

634  Elastic Instability of a Crystal Growing on a Curved Surface
G. Meng et al.
Constant-background Gaussian curvature alters crystal growth and favors the formation of anisotropic, ribbon-like domains.

637  Rapid Soil Production and Weathering in the Southern Alps, New Zealand
I. J. Larsen et al.
Fast weathering rates in the New Zealand Alps point to a strong influence of tectonic processes on global climate.

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.

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.

656  A Structurally Distinct Human Mycoplasma Protein that Generically Blocks Antigen-Antibody Union
R. K. Grover et al.
High-affinity binding of Protein M to a very broad range of human antibodies may find widespread immunochemical applications.

661  Interchromosomal Communication Coordinates Intrinsically Stochastic Expression Between Alleles
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 Ca2+ Channels and Release Sensors at a Plastic Hippocampal Synapse
N. P. Vyleta and P. Jonas
The mossy fiber to the CA3 synapse operates via loose calcium microdomains established by local calcium buffering.

670  Local Impermeant Anions Establish the Neuronal Chloride Concentration
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. Tyzio et al.
Maternal administration of bumetanide before delivery reduces the autistic phenotype in rodent models of autism.