RESEARCH ARTICLES

707 Morals and Markets
A. Falk and N. Szech
Marketplace interactions affect how much people are willing to pay to prolong the life of a mouse.

711 Rational HIV Immunogen Design to Target Specific Germline B Cell Receptors
J. Jardine et al.
Structural knowledge of broadly neutralizing antibodies against HIV-1 guides the design of an immunogen to elicit them.

734 Observing Atomic Collapse Resonances in Artificial Nuclei on Graphene
Y. Wang et al.
The massless charge carriers in graphene interact with highly charged defects to create an analog of atomic collapse states.

737 Robust Circadian Oscillations in Growing Cyanobacteria Require Transcriptional Feedback
S.-W. Teng et al.
The cyanobacterial clock uses one circuit for rhythms and a second circuit for intercellular synchronous oscillations.

741 Global Leaf Trait Relationships: Mass, Area, and the Leaf Economics Spectrum
J. L. D. Osnas et al.
Leaf traits are distributed in proportion to area; relationships between leaf traits are independent of leaf mass and area.

744 Early Mesodermal Cues Assign Avian Cardiac Pacemaker Fate Potential in a Tertiary Heart Field
M. Bressan et al.
A region of the lateral plate mesoderm gives rise to the cardiac pacemaker cell lineage prior to the onset of heart formation.

748 Wolbachia Invades Anopheles stephensi Populations and Induces Refractoriness to Plasmodium Infection
G. Bao et al.
Stable inheritance of a symbiotic bacterium suppresses malaria parasites in mosquitoes.

REPORTS

716 Lorentz Meets Fano in Spectral Line Shapes: A Universal Phase and Its Laser Control
C. Ott et al.
An analytical framework bolstered by attosecond spectroscopy conveys a clear understanding of asymmetric spectral line shapes.

720 Multiscale Modeling of Membrane Rearrangement, Drainage, and Rupture in Evolving Foams
R. I. Saye and J. A. Sethian
A model is developed to describe the complex dynamics of dry foams across a range of time and length scales.

724 Spin-Optical Metamaterial Route to Spin-Controlled Photonics
N. Shitrit et al.
Designed arrays of metallic nanoantennas provide a route for the polarization-dependent propagation of light.

727 Enhanced Role of Transition Metal Ion Catalysis During In-Cloud Oxidation of SO2
E. Harris et al.
Transition metal ions catalyze most of the oxidation of sulfur dioxide that occurs in clouds.

730 Networks of BZIP Protein-Protein Interactions Diversified Over a Billion Years of Evolution
A. W. Reinke et al.
A comparative study of a dimeric transcription factor family looks at the evolution of protein interactions.

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751 Delineating Antibody Recognition in Polyclonal Sera from Patterns of HIV-1 Isolate Neutralization
I. S. Georgiev et al.
An algorithm predicts the neutralization specificity of sera from HIV-infected individuals.

756 Emergence of Individuality in Genetically Identical Mice
J. Freund et al.
Over time, the brains and behaviors of inbred mice diversify.

759 Compartmentalization of GABAergic Inhibition by Dendritic Spines
C. Q. Chiu et al.
Inhibitory synapses can control individual dendritic spines independently from their neighbors.
Editor's Summary