RESEARCH ARTICLE

269 A Critical Period of Sleep for Development of Courtship Circuitry and Behavior in Drosophila
M. S. Kayer et al.
Young flies need their sleep, too.

REPORTS

275 KOI-3278: A Self-Lensing Binary Star System
E. Kriese and E. Agol
A white dwarf that eclipses a Sun-like star enhances, rather than dims, its brightness through relativistic effects.

>> Science Podcast

277 An Earth-Sized Planet in the Habitable Zone of a Cool Star
E. V. Quintana et al.
NASA’s Kepler mission revealed that the fifth and outermost planet orbiting Kepler-186 is capable of hosting liquid water.

>> News story p. 249

280 Emergent Space-Time Supersymmetry at the Boundary of a Topological Phase
T. Grover et al.
An elusive symmetry is predicted to emerge at the boundary of an exotic condensed matter system.

283 Strong Increase of $T_\text{c}$ of Sr$_2$RuO$_4$ Under Both Tensile and Compressive Strain
C. W. Hicks et al.
An apparatus that can apply both tensile and compressive strain is used to study an unconventional superconductor.

286 Wafer-Scale Growth of Single-Crystal Monolayer Graphene on Reusable Hydrogen-Terminated Germanium
J. H. Lee et al.
Wafer-scale single-crystal monolayer graphene can be repeatedly grown on a hydrogen-terminated germanium (110) surface.

289 Ultimate Permeation Across Atomically Thin Porous Graphene
K. Celebi et al.
Atomically thin nanoporous graphene membranes can sustain ultimate permeation in mass transport.

292 Missing Gas-Phase Source of HONO Inferred from Zeppelin Measurements in the Troposphere
X. Li et al.
The tropospheric production of HONO from a light-dependent gas-phase source raises questions about its impact on OH.

296 Assemblage Time Series Reveal Biodiversity Change but Not Systematic Loss
M. Dormelas et al.
Ecological communities are experiencing changes in species composition rather than unidirectional loss.

>> Perspective p. 266

299 Structural Basis for Assembly and Function of a Heterodimeric Plant Immune Receptor
S. J. Williams et al.
A heterodimer stands at the ready; a homodimer responds with action.

>> Perspective p. 267

304 Crystal Structure of a Claudin Provides Insight into the Architecture of Tight Junctions
H. Suzuki et al.
The structure of a mammalian claudin suggests how extracellular domains may form paracellular ion pathways.

307 The Structural Basis of Pathogenic Subgenomic Flavivirus RNA (sfRNA) Production
E. G. Chapman et al.
A pseudoknot in a flavivirus RNA resists efforts by a host nuclease to untangle it.

310 The STAT3-Binding Long Noncoding RNA Inc-DC Controls Human Dendritic Cell Differentiation
P. Wang et al.
A long noncoding RNA regulates dendritic cell differentiation and function.

313 Enhancing Depression Mechanisms in Midbrain Dopamine Neurons Achieves Homeostatic Resilience
A. K. Friedman et al.
Intensifying pathogenic changes paradoxically ameliorate depressive symptoms in mice.

316 Distinct Profiles of Myelin Distribution Along Single Axons of Pyramidal Neurons in the Neocortex
G. S. Tomassy et al.
Mouse neurons display different and distinctive patterns of myelination.

>> Perspective p. 264