Artist’s rendering of the airway epithelial cell surface in human lungs. The airway surface is lined by arrays of cylindrical cilia (shown as yellow projections) that are 7 micrometers long and 200 nanometers in diameter. The cilia and airway surface are covered by tethered biomacromolecules (shown as green hairs) that form dense, brushlike structures. These epithelial brushes protect the airways from infectious agents and ensure efficient flow of mucus from healthy lungs. See page 937. For the story behind the cover, go to http://scim.ag/cov6097.

Image: Yan Liang (www.l2xy2.com), Li-Heng Cai, Michael Rubinstein
REVIEWS

927 Luminous Supernovae
A. Gal-Yam

932 Gamma-Ray Bursts
N. Gehrels and P. Mészáros

RESEARCH ARTICLE

937 A Periciliary Brush Promotes the Lung Health by Separating the Mucus Layer from Airway Epithelia
B. Button et al.
The lung is protected by a brushlike biopolymer that contributes to mucus flow and can trigger muco-obstructive diseases.
>> Perspective p. 924

REPORTS

942 PTF 11kx: A Type Ia Supernova with a Symbiotic Nova Progenitor
B. Dilday et al.
Spectroscopic data imply that a stellar explosion arose from a binary consisting of a white dwarf and a red giant star.
>> Science Podcast

946 Absorption Features in the X-ray Spectrum of an Ordinary Radio Pulsar
O. Kargaltsev et al.
Data from two x-ray space observatories reveal unexpected spectral features in a common, rotating, magnetized compact star.

949 A 200-Second Quasi-Periodicity After the Tidal Disruption of a Star by a Dormant Black Hole
R. C. Reis et al.
Oscillations in x-ray emission from a galaxy’s central black hole imply that a disc formed after the hole captured a star.
>> Perspective p. 916

951 Design of Stable Nanocrystalline Alloys
T. Chookajorn et al.
Designed nanostructured alloys, amenable to large-scale production, show high-temperature thermal stability.
>> Perspective p. 921

954 Stepwise Evolution of Spherical Seeds into 20-Fold Twinned Icosahedra
M. R. Langille et al.
The growth of silver nanoparticles from plasmonic gold nanocrystals was tracked by electron microscopy.

957 Mapping the Origins and Expansion of the Indo-European Language Family
R. Bouckaert et al.
Spatial models of language lineage evolution support an Anatolian homeland for Indo-European languages.
>> News story p. 902; Science Podcast

960 Assembly of an Evolutionarily New Pathway for α-Pyrene Biosynthesis in Arabidopsis
J.-K. Weng et al.
A neofunctionalized copy of a plant P450 enzyme allows synthesis of pyrone-bearing secondary metabolites, called arabidopyrones.

964 CiS-Acting Transcriptional Repression Establishes a Sharp Boundary in Chordate Embryos
K. S. Inai et al.
The conserved tandem arrangement of Pinhead and Admp genes is important for their mutually exclusive expression.

967 Landscape of Somatic Retrotransposition in Human Cancers
E. Lee et al.
Whole-genome sequencing provides evidence for somatic insertions in colorectal, prostate, and ovarian cancers.

971 Dense Chromatin Activates Polycomb Repressive Complex 2 to Regulate H3 Lysine 27 Methylation
W. Yuan et al.
The density and compaction state of chromatin directly regulates the activity of a transcription repressor protein complex.
>> Perspective p. 919

975 Phosphofructokinase 1 Glycosylation Regulates Cell Growth and Metabolism
W. Yi et al.
Inhibition of a key metabolic enzyme reprograms metabolic flux toward pathways critical for cancer cell proliferation.
>> Perspective p. 925

980 Neurexin and Neuroligin Mediate Retrograde Synaptic Inhibition in C. elegans
Z. Hu et al.
Two synaptic adhesion molecules that have been implicated in psychiatric diseases affect the kinetics of synaptic events.

984 Strategy-Dependent Encoding of Planned Arm Movements in the Dorsal Premotor Cortex
T. M. Pearce and D. W. Moran
The amount of preparatory neural activity in the brain depends on movement complexity and conscious planning.

CONTENTS continued >>
How to Line a Thermonuclear Reactor that promotes female fertility.

Semen’s Secret Ingredient

http://scim.ag/Melting-Greenland

Last month’s sudden, widespread surface melt

Highlights From Our Daily News Coverage

www.sciencenow.org

Hydrogenation of a crystalline precursor enables

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Synthesis and Characterization of a Rhodium(I)

phosphorylation-dependent manner.

protein modulates cardiac contractility in a

A myosin thick filament–associated sarcomeric

Protein C in Native Thick Filaments

Molecular Mechanics of Cardiac Myosin-Binding

Protein C in Native Thick Filaments

-alkane Complex in the Solid State

Adhesion Functions in Cell Sorting by Mechanically Coupling the Cortices of Adhering Cells

Cell adhesion provides a mechanical scaffold for cell cortex tension to drive cell sorting during zebrafish gastrulation.

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