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COVER

Pseudocolored scanning electron micrograph (magnification ~34,000x) of the surface of mouse airway epithelia showing cilia protruding from epithelial cells; short protrusions in the foreground are microvilli from a nonciliated cell. In human airway epithelia, these motile cilia bear receptors that detect bitter compounds and signal the cilia to increase their rhythmic beat frequency to help clear noxious substances from the lungs. See page 1131.

Image: Tom Moninger (epithelia generated by Phil Karp)

DEPARTMENTS

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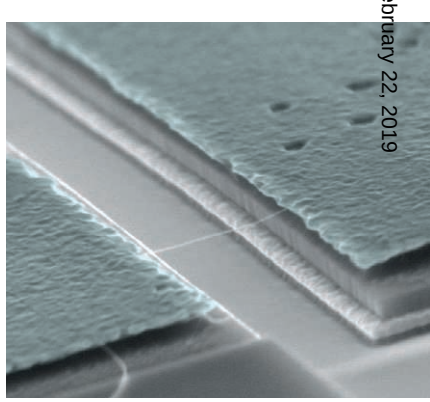

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G. Angelo and M. R. Van Gilst

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10.1126/science.1178343

Coat Variation in the Domestic Dog Is Governed by Variants in Three Genes
E. Cadieu et al.

Huge variations in the coats of purebred dogs can be explained by the combinatorial effects of only three genes.
10.1126/science.1177808

Complete Resequencing of 40 Genomes Reveals Domestication Events and Genes in Silkworm (*Bombyx*)
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Silkworm genomes show signatures of selection associated with domestication.
10.1126/science.1176620
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Nitrous Oxide (N_2O): The Dominant Ozone-Depleting Substance Emitted in the 21st Century
A. R. Ravishankara et al.

Nitrous oxide causes more stratospheric ozone destruction than any other ozone-depleting substance.
10.1126/science.1176985
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Chiral Organic Ion Pair Catalysts Assembled Through a Hydrogen-Bonding Network
D. Uraguchi et al.

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10.1126/science.1176758

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full text at www.sciencemag.org/cgi/content/full/325/5944/1072-d

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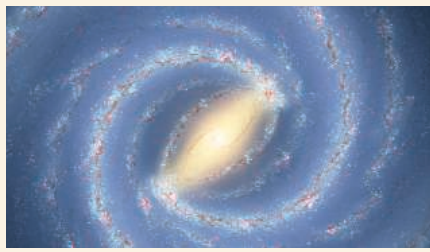

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