NEWS

IN BRIEF
488 Roundup of the week’s news

IN DEPTH
490 EUROPE’S MARS ROVER TO TARGET ANCIENT WETLAND
Deep-drilling ExoMars mission will probe long-buried clay formation for signs of life By D. Clery

491 LIFELONG MEMORIES MAY RESIDE IN NETS AROUND BRAIN CELLS
Studies suggest key role for perineuronal networks of proteins and sugars in long-term memory By E. Underwood

492 HOW SOME OF THE WORLD’S BIGGEST DINOSAURS GOT THAT WAY
Fresh data reveal titanosaur growth stages, from egg to adult By M. Balter

493 PROPOSED STUDY WOULD CLOSELY TRACK 10,000 NEW YORKERS
Twenty-year household surveillance project aims to gather data first, produce hypotheses later By K. Servick

FEATURES
496 CRADLE OF LIFE
Did a biblical-scale flood—or the rise of the Andes—give the Amazon its amazing biodiversity? By L. Wade

494 MYSTERIOUS ANTARCTIC LAKE WILL REMAIN OUT OF REACH
Cash-strapped Russian expedition curtails drilling plans as it sets out for the southern continent By C. Gramling

495 CRISIS MANAGER WITH 194 BOSSES
WHO Director-General Margaret Chan wants member countries to put their money where their mouths are By K. Kupferschmidt

496 EXPLAINING THE CLOUD FOREST’S ROLE IN NEOTROPICAL BIODIVERSITY

498 RANDOMNESS RULES
Disorder can have dramatic effects on quantum transitions By N. Markovic

499 NEUROTRANSMITTER-TAILORED DENDRITIC TREES
GABA is both transmitter and morphogen, stimulating neuronal branching in the brain By N. C. Spitzer

500 VISUALIZING TRANS-INFECTION
Systemic spread of a virus starts with multiple modes of transmission in the lymph node By T. J. Hope

501 FROM THE LAB TO THE REAL WORLD
Laboratory experiments provide precise quantitative predictions of peer effects in the field By G. Charness and E. Fehr

502 SYNTHETIC IMMUNOBIOLOGY BOOSTS THE IQ OF T CELLS
Engineered chimeric antigen receptors show promise By M. C. Jensen

INSIGHTS

BOOKS ET AL.
502 2014 NEBULA AWARD
504 2015 HUGO AWARD
515 A WINDOW INTO APE EVOLUTION
A fossil of an ape ancestor helps to explain gibbon evolution By B. R. Benefit and M. L. McCrossin
▶ RESEARCH ARTICLE P. 528

517 ERIC DAVIDSON (1937–2015)
A developmental biologist uncovered the structure and evolution of gene regulatory networks By D. H. Erwin

550 CHRONIC ITCH
Gate control of mechanical itch by a subpopulation of spinal cord interneurons S. Bourane et al.
▶ PERSPECTIVE P. 510

554 BRAIN DEVELOPMENT
A GABAergic projection from the zona incerta to cortex promotes cortical neuron development J. Chen and A. R. Kriegstein
▶ PERSPECTIVE P. 510

558 MICROBIOME
Disease tolerance mediated by microbiome E. coli involves inflammasome and IGF-1 signaling A. M. Palaferri Schieber et al.

563 VIROLOGY
Retroviruses use CD169-mediated trans-infection of permissive lymphocytes to establish infection X. Sewald et al.
▶ PERSPECTIVE P. 511

568 TUMOR VIRUSES
DNA tumor virus oncogenes antagonize the cGAS-STING DNA-sensing pathway departments L. Lau et al.

ON THE COVER
False-color microscopic view of a reduced graphene oxide electrode (black, center), which hosts the large (on the order of 20 micrometers) lithium hydroxide particles (pink) that form when a lithium-oxygen battery discharges. Lithium iodide aids in the removal of the particles upon charging, resulting in an efficient and highly energy-dense battery with potential applications in portable electronics, transportation, and grid storage. See page 530. Illustration: Valerie Altonnian/Science
Science 350 (6260), 487-594.