NEWS

IN BRIEF
526 Roundup of the week’s news

INSIGHTS

538 STEPPING ON THE GAS
What would it take to put you behind the wheel of a methane-powered vehicle? Researchers are determined to find out
By R. F. Service

542 COMPLETE PAIRING NOT NEEDED
Structures of microRNA-mRNA–human Argonaute reveal where and how intermolecular interactions are specified
By D. J. Patel
▶ RESEARCH ARTICLE P. 608

544 CLARIFYING THE STRUCTURE OF CARBONIC ACID
Discrepancies in the reported structures of the difficult-to-isolate solid form of a common acid have been resolved
By G. Bucher and W. Sander

545 SEEKING OUT MAJORANA UNDER THE MICROSCOPE
A chain of iron atoms on lead may reveal a signature of the elusive Majorana particle
By P. A. Lee
▶ RESEARCH ARTICLE P. 602

547 ADOLESCENT MENTAL HEALTH—OPPORTUNITY AND OBLIGATION
Emerging neuroscience offers hope for treatments
By F. S. Lee et al.
▶ THE AGING BRAIN SECTION P. 566

549 THE VALUE OF VALUING NATURE
Valuing nature in economic terms is not always beneficial for biodiversity conservation
By W. M. Adams
▶ EDITORIAL P. 525

FRANKfurter熱帯雨林（紅？）

530 & 630

FEATURE

538 STEPPING ON THE GAS
What would it take to put you behind the wheel of a methane-powered vehicle? Researchers are determined to find out
By R. F. Service

530 THE COMING SALAMANDER PLAGUE
Already harming a European species, an Asian fungus could wreak havoc in North America
By E. Stokstad
▶ REPORT P. 630

531 AN EASY CONSCIOUSNESS TEST?
EEG studies detect awareness in locked-in people
By E. Underwood

532 MODERN SYMBIONTS INSIDE CELLS MIMIC ORGANELLE EVOLUTION
Long-term partnerships can result in extremes in genome reduction or expansion
By E. Pennisi

534 THE EBOLA VACCINE UNDERDOG
NewLink Genetics says it might have enough doses ready by spring to vaccinate most people at risk
By J. Cohen

535 FRIENDS, NOT FOES, BOOST WARRIORS’ SUCCESS
New analysis of Yanomamö data suggests that alliances among in-laws raise fighters’ fitness
By L. Wade

537 LOW OXYGEN STIFLED ANIMALS’ EMERGENCE, STUDY SAYS
Rocks shed light on a billion years of stalled evolution
By C. Gramling
▶ REPORT P. 635

545 & 602

A glimpse at Majorana fermions via iron atoms

SPECIAL SECTION

The aging brain

INTRODUCTION
566 Better aging through neuroscience

NEWS
568 Starting young
By E. Underwood

REVIEWS
572 Human cognitive aging: Corriger la fortune?
U. Lindenberger
579 Plasticity of the aging brain: New directions in cognitive neuroscience
A. Gutchess
583 Language in the aging brain: The network dynamics of cognitive decline and preservation
M. A. Shafto and L. K. Tyler
587 Economic and social implications of aging societies
S. Harper

SEE ALSO
▶ PERSPECTIVE P. 547
▶ SCIENCE SIGNALING RESEARCH ARTICLE BY W. M. PRYOR ET AL.
(28 OCT. 2014)
▶ sciencemag.org/special/neuro2014

ON THE COVER
Myelin content (red, high; grayish purple, low) mapped on the cerebral cortex of a healthy adult, aged over 70 years, scanned for the Human Connectome Project, Lifespan supplement. Myelin maps provide useful markers for functionally distinct regions of the cerebral cortex, which vary in size between individuals. For more on the aging brain, see page 566. Image: M. F. Glasser, D. C. Van Essen, and J. S. Elam for the WU-Minn Human Connectome Project consortium; http://humanconnectome.org