NEWS

IN BRIEF

796 News at a glance

IN DEPTH

800 U.S. SCIENCE ADVISER SEES SMALLER FEDERAL ROLE
In first public remarks, Kelvin Droegemeier calls partnerships key to research preeminence By J. Mervis

801 A 2-WEEK WEATHER FORECAST MAY BE AS GOOD AS IT GETS
Experiments show how chaos defeats computer models By P. Voosen

802 SOUTH AFRICAN LAW MAY IMPEDE HUMAN HEALTH RESEARCH
Data protection measure may block reuse of data in biobanks By L. Nordling

803 NASA PROBE TO MAKE ALL-SKY INFRARED MAP
Mission to seek clues to the big bang and capture the combined glow of all galaxies By A. Mann

804 RESEARCHERS SPY SIGNS OF SLAVERY FROM SPACE
A surge in satellite data and artificial intelligence helps guide enforcement on the ground By S. Scoles

805 UNEXPECTED DRUG EMERGES FOR STROKE RECOVERY
HIV drug targets a protein that may hinder the brain's regrowth after damage By K. Servick

FEATURES

806 THE LITTLE REACTORS THAT COULD
Billed as safe and cheap, NuScale's small reactors aim to revive the ailing nuclear industry and help save a warming planet By A. Cho

809 THE QUEST FOR BOUNDLESS ENERGY
By A. Cho

INSIGHTS

POLICY FORUM

810 REGULATION OF PREDICTIVE ANALYTICS IN MEDICINE
Algorithms must meet regulatory standards of clinical benefit By R. B. Parikh et al.

814 SLEEP WELL TO SLOW ALZHEIMER'S PROGRESSION?
Sleep disruption promotes the spread of damaging tau pathology in Alzheimer's disease By W. Noble and T. L. Spire-Jones

815 DECIPHERING MASS EXTINCTION TRIGGERS
Improved radioisotope dates help to illuminate the causes of mass extinctions By S. Burgess

817 EXTRACELLULAR VESICLES IN PARASITE SURVIVAL
Extracellular vesicles facilitate cell-cell communication in the host-parasite interaction By Y. Ofir-Birin and N. Regev-Rudzki

819 WHEN TWO METAL ATOMS ARE BETTER THAN ONE
A catalyst with a two–metal-atom core catalyzes the formation of five-membered rings By K. Johnson and D. Weix

820 ULTRACOLD AND UNREACTIVE FERMIONIC MOLECULES
Suppressed density fluctuations of $^{40}$K–$^{87}$Rb gases inhibit molecular collisions and reactions By T. Zelevinsky
817 Extracellular vesicles modify parasite hosts

875 Activating potassium channels

822 IN SEARCH OF AN AGING ANTIDOTE
A science writer probes the one risk factor shared by a bevy of devastating diseases
By B. K. Kennedy

824 TOTAL ECLIPSES AND THE HEART
Unexpected connections emerge in a lyrical meditation on the lives and loves of pioneering women in science
By L. Campos

825 MADAGASCAR: CRIME THREATENS BIODIVERSITY
By J. P. G. Jones et al.

826 ASSESSING CELL-BASED ANIMAL PROTEINS
By S. L. Liu and K. Gasteratos

831 From Science and other journals

834 TOPOLOGICAL MATTER
Choreographed entanglement dances: Topological states of quantum matter X.-G. Wen
REVIEW SUMMARY: FOR FULL TEXT: dx.doi.org/10.1126/science.aas3099

835 STRUCTURAL BIOLOGY
Structures and operating principles of the replisome Y. Gao et al.
RESEARCH ARTICLE SUMMARY: FOR FULL TEXT: dx.doi.org/10.1126/science.aav7003
PERSPECTIVE P. 814

836 PLANT BIOLOGY
Ubiquitin-dependent chloroplast-associated protein degradation in plants Q. Ling et al.
RESEARCH ARTICLE SUMMARY: FOR FULL TEXT: dx.doi.org/10.1126/science.aav4467

837 NEUROSCIENCE
Latrophilin GPCRs direct synapse specificity by coincident binding of FLRTs and teneurins R. Sando et al.
RESEARCH ARTICLE SUMMARY: FOR FULL TEXT: dx.doi.org/10.1126/science.aav7969

838 ELECTROCHEMISTRY
Scalable and safe synthetic organic electroreduction inspired by Li-ion battery chemistry B. K. Peters et al.

846 MESOSCOPIC PHYSICS
A Josephson relation for fractionally charged anyons M. Kapfer et al.

849 3D PRINTING
Keyhole threshold and morphology in laser melting revealed by ultrahigh-speed x-ray imaging R. Cunningham et al.

853 COLD MOLECULES
A degenerate Fermi gas of polar molecules L. De Marco et al.
PERSPECTIVE P. 820

857 ORGANIC CHEMISTRY
Catalytic reductive [4 + 1]-cycloadditions of vinylidenes and dienes Y.-Y. Zhou and C. Uyeda
PERSPECTIVE P. 819

860 MASS EXTINCTION
U-Pb constraints on pulsed eruption of the Deccan Traps across the end-Cretaceous mass extinction B. Schoene et al.

862 U-Pb constraints on pulsed eruption of the Deccan Traps across the end-Cretaceous mass extinction B. Schoene et al.

866 The eruptive tempo of Deccan volcanism in relation to the Cretaceous-Paleogene boundary C. J. Sprain et al.
PERSPECTIVE P. 815

870 ELECTROCHEMISTRY
Tunable intrinsic strain in two-dimensional transition metal electrocatalysts L. Wang et al.

875 ION CHANNELS
A pharmacological master key mechanism that unlocks the selectivity filter gate in K⁺ channels M. Scheue et al.

880 NEURODEGENERATION
The sleep-wake cycle regulates brain interstitial fluid tau in mice and CSF tau in humans J. K. Holth et al.
PERSPECTIVE P. 813

884 SYNTHETIC BIOLOGY
Hachimoji DNA and RNA: A genetic system with eight building blocks S. Hoshika et al.

898 WORKING LIFE
The courage to leave By Hendrik Huthoff

ON THE COVER
Molecules produced at just a few billionths of a degree above absolute zero display exotic quantum properties. A classical gas of potassium-rubidium molecules is chemically reactive (top); when the gas is cooled to low temperatures, collective quantum effects govern how molecules move and collide, suppressing reactivity and enabling formation of a stable, degenerate molecular gas (bottom). See pages 820 and 853. Illustration: V. Altounian/Science

DEPARTMENTS
795 EDITORIAL
The law and vaccine resistance By Dorit Rubinstein Reiss

New Products ............................................. 891
AAAS News & Notes ..................................827
Science Staff ..........................................794
New Products..........................................811
Science Careers ....................................892

Published by AAAS
Science 363 (6429), 795-898.