A few lucky researchers return to the field
The pandemic has transformed fieldwork and upended careers
By E. Pennisi

DNA plucked from air identifies nearby animals
Analysis of airborne cells could survey biodiversity, two studies of zoo animals suggest
By E. Stokstad

Event Horizon Telescope images second black hole’s jets
Globe-spanning instrument’s snapshot of Centaurus A galaxy suggests all black holes operate similarly
By D. Clery

WHO chief pressures China on pandemic origin
Agency director calls for lab audits and more studies of how SARS-CoV-2 emerged
By J. Cohen

A troubled calculus
Researchers use race to build disease risk assessment tools. Can removing it help resolve medicine’s race crisis?
By J. Madhusoodanan

Global implications of the EU battery regulation
A much-needed law may have unintended global consequences
By H. E. Melin et al.
The interior of Mars revealed
Direct seismic observations provide clues to the red planet’s structure and evolution
By S. Cottaar and P. Koelemeijer

Coherent manipulation of a spin qubit
A new device opens new avenues for spin qubits
By G. Wendin and V. Shumeiko

The inner workings of an enzyme
A high-throughput mutation screen dissects the mechanistic basis of enzyme activity
By Z. T. Baumer and T. A. Whitehead
RESEARCH ARTICLES

Neuroimmunology
408 Heterogeneity of meningeal B cells reveals a lymphopoietic niche at the CNS borders. S. Brosch et al.
RESEARCH ARTICLE SUMMARY; FOR FULL TEXT: DOI.ORG/10.1126/SCIENCE.ABF9277

409 Skull and vertebral bone marrow are myeloid cell reservoirs for the meninges and CNS parenchyma. A. Cugurra et al.
RESEARCH ARTICLE SUMMARY; FOR FULL TEXT: DOI.ORG/10.1126/SCIENCE.ABF7844

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Enterically derived high-density lipoprotein restrains liver injury through the portal vein. Y.-H. Han et al.
RESEARCH ARTICLE SUMMARY; FOR FULL TEXT: DOI.ORG/10.1126/SCIENCE.ABE6729

411 Enzymology
Revealing enzyme functional architecture via high-throughput microfluidic enzyme kinetics. C. J. Markin et al.
RESEARCH ARTICLE SUMMARY; FOR FULL TEXT: DOI.ORG/10.1126/SCIENCE.ABF761

412 Neurodevelopment
Retinal waves prime visual motion detection by simulating future optic flow. X. Ge et al.
RESEARCH ARTICLE SUMMARY; FOR FULL TEXT: DOI.ORG/10.1126/SCIENCE.ABDO830

413 Structural biology
Structure of an AMPK complex in an inactive, ATP-bound state. Y. Yan et al.

420 Plant science
Plant “helper” immune receptors are Ca2+-permeable nonselective cation channels. P. Jacob et al.

425 Astroparticle physics
Peta–electron volt gamma-ray emission from the Crab Nebula. The LHAASO Collaboration

430 Quantum devices
Coherent manipulation of an Andreev spin qubit. M. Hays et al.
PERSPECTIVE p. 390

434 Upper mantle structure of Mars from InSight seismic data. A. Khan et al.

438 Thickness and structure of the martian crust from InSight seismic data. B. Knappey-Endrun et al.

443 Seismic detection of the Martian core. S. C. Stähler et al.
PERSPECTIVE p. 396

448 Photophysics
Inhibited nonradiative decay at all exciton densities in monolayer semiconductors. H. Kim et al.

452 Spectroscopy
Atomically resolved single-molecule triplet quenching. J. Peng et al.
PERSPECTIVE p. 392

456 Animal culture
Innovation and geographic spread of a complex foraging culture in an urban parrot. B. C. Klump et al.

DEPARTMENTS
369 Editorial
Colleges need vaccine mandates. By H. Holden Thorp

462 Working Life
For those we’ve lost. By Anna Moyer

ON THE COVER
Vital clues to a planet’s geologic history are contained in its interior. For 2 years on Mars, the InSight lander has recorded seismic data to constrain the planet’s interior structure. The data reveal a layered crust, a mantle with a thick lithosphere, and a liquid iron-nickel core enriched in light elements, suggesting that Mars formed and evolved differently from Earth. See pages 388, 434, 438, and 443. Illustration: C. Bickel/Science; Data: InSight Mars SEIS Data Service (2019)

Science Staff........................................ 366
Science Careers................................... 461

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