IN BRIEF

1292 News at a glance

IN DEPTH

1295 Pandemic vaccines are about to face the real test
U.S. and global efforts are taking different approaches to key efficacy trials of candidates
By J. Cohen

1296 Can phone apps slow the spread of the coronavirus?
Digital contact tracing is growing—and facing its first real-world tests
By K. Servick

1298 U.S. academic research funding stays healthy despite pandemic
Labs reopening even as campuses struggle
By J. Mervis

1299 Incest in ancient Ireland suggests an elite ruled early farmers
DNA from massive Newgrange tomb reveals a practice linked to royalty around the world
By A. Curry

1300 New tensions dim hopes for salvaging Iran nuclear deal
Monitoring agency seeks clarity about clandestine R&D
By R. Stone

NEWS

1301 NIH requires disclosure about sexual harassment by grantees
Changes aimed in part at making sure institutions don’t “pass the harasser”
By J. Kaiser

1302 Weather makers
Forests supply the world with rain. A controversial Russian theory claims they also make wind
By F. Pearce

FEATURES

1306 The origins of flowering plants and pollinators
New research raises questions about when flowering plants and their pollinators evolved
By C. J. van der Kooi and J. Ollerton

1309 Perovskite solar cells take a step forward
A new encapsulation technique helps move a photovoltaic toward commercialization
By E. J. Juarez-Perez and M. Haro

1310 Dating the emergence of human pathogens
Ancient genomes can narrow the search for the sources of zoonotic transmissions
By S. Y. W. Ho and S. Duchêne

INSIGHTS

1305 PER SPE CTIVES

1306 The origins of flowering plants and pollinators
New research raises questions about when flowering plants and their pollinators evolved
By C. J. van der Kooi and J. Ollerton

1309 Perovskite solar cells take a step forward
A new encapsulation technique helps move a photovoltaic toward commercialization
By E. J. Juarez-Perez and M. Haro

1310 Dating the emergence of human pathogens
Ancient genomes can narrow the search for the sources of zoonotic transmissions
By S. Y. W. Ho and S. Duchêne

1311 Getting a grip on touch receptors
Meissner corpuscles are anatomically complex mechanosensors critical for tactile acuity
By K. Marshall and A. Patapoutian
RESEARCH ARTICLE p. 1330

1312 Closing the radical gap in chemical synthesis
Unstable radical intermediates are harnessed in a microfluidic electrochemical cell
By J.-Q. Liu et al.
REPORT p. 1352

1314 Drug modulation by nuclear condensates
Concentration of antineoplastic agents into spatial compartments influences activity
By A. D. Viny and R. L. Levine
REPORT p. 1386

1315 Using information theory to decode network coevolution
Communication clashes shape the coevolution of insect-plant ecosystems
By R. Solé
REPORT p. 1377

POLICY FORUM

1317 Understanding persistent gender gaps in STEM
Does achievement matter differently for men and women?
By Joseph R. Cimpian et al.
BOOKS ET AL.
1320 Creating a culture of change
Urging action, a new film paints a harrowing portrait of female scientists’ experiences in academia By D. Riley

1321 What to do with our days
When wielded correctly, boredom can be a powerful tool By E. Westgate

LETTERS
1322 Academic societies’ role in curbing police brutality
By P. Phillips and M. B. Weissman

1322 Pandemics’ historical role in creating inequality
By L. M. Dávalos et al.

1323 Recent immigrants at increased pandemic risk
By P. Galanaud and A. Galanaud

RESEARCH

IN BRIEF
1324 From Science and other journals

REVIEW
1327 Forest and climate
Climate-driven risks to the climate mitigation potential of forests W. R. L. Anderegg et al.
REVIEW SUMMARY: FOR FULL TEXT: DX.DOI.ORG/10.1126/SCIENCE.ABA2412

RESEARCH ARTICLES
1328 Solar cells
Gas chromatography–mass spectrometry analyses of encapsulated stable perovskite solar cells L. Shi et al.
RESEARCH ARTICLE SUMMARY: FOR FULL TEXT: DX.DOI.ORG/10.1126/SCIENCE.ABA2412

1329 Neuroscience
Manipulating synthetic optogenetic odors reveals the coding logic of olfactory perception E. Chong et al.
RESEARCH ARTICLE SUMMARY: FOR FULL TEXT: DX.DOI.ORG/10.1126/SCIENCE.ABA2357

1330 Neuroscience
Meissner corpuscles and their spatially intermingled afferents underlie gentle touch perception N. L. Neubarth et al.
RESEARCH ARTICLE SUMMARY: FOR FULL TEXT: DX.DOI.ORG/10.1126/SCIENCE.ABB2751

1331 Coronavirus
Structure-based design of antiviral drug candidates targeting the SARS-CoV-2 main protease W. Dai et al.

1335 Influenza
Different genetic barriers for resistance to H1N1 stem antibodies in influenza H3 and H1 viruses N. C. Wu et al.

1341 Biodiversity change
Landscape-scale forest loss as a catalyst of population and biodiversity change G. N. Daskalova et al.

REPORTS
1347 Metallurgy
Making ultrastrong steel tough by grain-boundary delamination L. Liu et al.

1352 Electrochemistry
Microfluidic electrochemistry for single-electron transfer redox-neutral reactions Y. Mo et al.

1357 Geophysics
3D fault architecture controls the dynamism of earthquake swarms Z. E. Ross et al.

1362 Coronavirus
Rapid implementation of mobile technology for real-time epidemiology of COVID-19 D. A. Drew et al.

1367 Measles
Measles virus and rinderpest virus divergence dated to the sixth century BCE A. Dux et al.

1371 Immunometabolism
T cells with dysfunctional mitochondria induce multimorbidity and premature senescence G. Desdín-Méndez et al.

1377 Chemical ecology
Information arms race explains plant-herbivore chemical communication in ecological communities P. Zu et al.

1381 Metalloenzymes
Structural evidence for a dynamic metallocofactor during N. reduction by Mo-nitrogenase W. Kang et al.

1386 Phase separation
Partitioning of cancer therapeutics in nucleolar condensates J. A. Klein et al.

DEPARTMENTS
1290 Editorial
COVID-19 and cancer By Norman E. Sharpless

1291 Editorial
Combating sexual harassment By Carrie D. Wolinetz, Michael S. Lauer, Francis S. Collins

1294 Working Life
Undergrads in charge By Akira Nishii

ON THE COVER
Upon infection, SARS-CoV-2 (blue) uses host machinery to produce polyproteins for replication. The viral main protease (yellow) plays a key role in polyprotein cleavage and thus is a potential drug target. Researchers have designed two antiviral compounds that inhibit activity of the main protease to prevent viral replication. Preclinical studies show that these compounds are promising therapeutic candidates. See page 1331.

Illustration: C. Bickel/Science. Data: PDB ID 6M0K (SARS-CoV-2 main protease)

Science Careers ......................... 1393

Published by AAAS.

SCIENCE sciencemag.org
10 JUNE 2020 • VOL 368 ISSUE 6497 1289