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Nature

Volume 560 Issue 7716, 2 August 2018

- 1. The application and development of machine-learning methods used in experiments at the frontiers of particle physics (such as the Large Hadron Collider) are reviewed, including recent advances based on deep learning.**
Alexander Radovic, Mike Williams[...] & Taritree Wongjirad
- 2. Analysis of more than 1,500 microbial genomes sheds light on the processing of carbon released as permafrost thaws.**
Ben J. Woodcroft, Caitlin M. Singleton[...] & Gene W. Tyson
- 3. Expression of $\alpha 6$ integrin enables acute lymphoblastic leukaemia cells to use neural migratory pathways to invade the central nervous system and metastasize to the brain.**
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- 4. Topological negative refraction of surface acoustic waves in a Weyl phononic crystal**
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- 5. Using topology-switching metal–ligand cages to crosslink polymer networks produces gels whose chemical and mechanical properties can be radically and reversibly switched on irradiation.**
Yuwei Gu, Eric A. Alt[...] & Jeremiah A. Johnson
- 6. Direct coupling of aliphatic C–H nucleophiles to aryl electrophiles is described, through the combination of light-driven polyoxometalate hydrogen atom transfer and nickel catalysis.**
Ian B. Perry, Thomas F. Brewer[...] & David W. C. MacMillan
- 7. A multiple-proxy reconstruction for the catchment of the Limpopo River and of sea surface temperatures in the Indian Ocean provides evidence for hydroclimatic changes that may have been important in hominin evolution.**
Thibaut Caley, Thomas Extier[...] & Jacques Giraudeau
- 8. Global soil respiration is rising, probably in response to environmental changes, suggesting that climate-driven losses of soil carbon are occurring worldwide.**
Ben Bond-Lamberty, Vanessa L. Bailey[...] & Rodrigo Vargas
- 9. Mineral inclusions in blue boron-bearing diamonds reveal that such diamonds are among the deepest diamonds ever found and indicate a viable pathway for the deep-mantle recycling of crustal elements.**
Evan M. Smith, Steven B. Shirey[...] & Wuyi Wang
- 10. Two populations of Anolis lizards that survived Hurricanes Irma and Maria had larger toepads, longer forelimbs and shorter hindlimbs relative to the pre-hurricane populations, which suggests hurricane-induced natural selection.**
Colin M. Donihue, Anthony Herrel[...] & Jonathan B. Losos
- 11. Fish and invertebrate communities transformed across the span of the Great Barrier Reef following the 2016 bleaching event due to a decline in coral-feeding fishes resulting from coral loss, and because of different regional responses of key trophic groups to the direct effect of temperature.**
Rick D. Stuart-Smith, Christopher J. Brown[...] & Graham J. Edgar
- 12. Inhibition to the null direction of motion has a critical role in the direction selectivity of neurons in ferret primary visual cortex.**
Daniel E. Wilson, Benjamin Scholl & David Fitzpatrick
- 13. A comparative metabolomics approach is used to identify succinate as a key activator of thermogenesis in brown adipose tissue.**
Evanna L. Mills, Kerry A. Pierce[...] & Edward T. Chouchani
- 14. A sensitive T cell tracking assay reveals immunogenic activity of specific catabolized peptide fragments of insulin and their effects on T cell activity in lymph nodes, highlighting communication between pancreatic islets and lymphoid tissue.**
Xiaoxiao Wan, Bernd H. Zinselmeyer[...] & Emil R. Unanue
- 15. 53BP1 and shieldin recruit the CTC1–STN1–TEN1 complex and polymerase- α to sites of DNA damage to help control the repair of double-strand breaks.**

- Zachary Mirman, Francisca Lotterberger[...] & Titia de Lange
16. **The 53BP1 effector complex shieldin is involved in non-homologous end-joining and immunoglobulin class switching, and acts to protect DNA ends to facilitate the repair of DNA by 53BP1.**
Sylvie M. Noordermeer, Salomé Adam[...] & Daniel Durocher
 17. **The specificity of 53BP1 and its co-factors for particular DNA substrates during non-homologous end joining (NHEJ) derives from REV7–shieldin, a four-subunit DNA-binding complex that is required for REV7-dependent NHEJ but not for REV7-dependent DNA interstrand cross-link repair.**
Hind Ghezraoui, Catarina Oliveira[...] & J. Ross Chapman
 18. **High-resolution structures of the human plasma membrane protein patched 1 alone and in complex with the native form of the ligand sonic hedgehog are determined.**
Xiaofeng Qi, Philip Schmieg[...] & Xiaochun Li

Nature

Volume 560 Issue 7717, 9 August 2018

1. **Coherent coupling between a three-electron spin qubit and single photons in a microwave resonator is demonstrated, which, unlike previous demonstrations, does not require ferromagnetic components near the qubit.**
J. Landig, J. V. Koski[...] & T. Ihn
2. **Meningeal lymphatic dysfunction promotes amyloid- β deposition in the meninges and worsens brain amyloid- β pathology, acting as an aggravating factor in Alzheimer's disease and in age-associated cognitive decline; improving meningeal lymphatic function could help to prevent or delay age-associated neurological diseases.**
Sandro Da Mesquita, Antoine Louveau[...] & Jonathan Kipnis
3. **A series of compounds are discovered for the treatment of visceral leishmaniasis, and cdc2-related kinase 12 (CRK12) is identified as the probable primary drug target.**
Susan Wyllie, Michael Thomas[...] & Ian H. Gilbert
4. **New mitochondrial DNA synthesis links the priming and activation of the NLRP3 inflammasome.**
Zhenyu Zhong, Shuang Liang[...] & Michael Karin
5. **A topologically engineered graphene nanoribbon superlattice is presented that hosts a one-dimensional array of half-filled, in-gap localized electronic states, enabling band engineering.**
Daniel J. Rizzo, Gregory Veber[...] & Felix R. Fischer
6. **Graphene nanoribbons are used to design robust nanomaterials with controlled periodic coupling of topological boundary states to create quasi-one-dimensional trivial and non-trivial electronic quantum phases.**
Oliver Gröning, Shiyong Wang[...] & Roman Fasel
7. **A scalable thermal drawing process is used to integrate light-emitting and photodetecting diodes into textile-ready polymer fibres, which can be woven into fabrics with possible optical communication and health monitoring applications.**
Michael Rein, Valentine Dominique Favrod[...] & Yoel Fink
8. **Comparing the northern permafrost region of the Last Glacial Maximum with the same area today shows that the soil carbon stock has now increased, suggesting that permafrost carbon made no net contribution to preindustrial atmospheric carbon.**
Amelie Lindgren, Gustaf Hugelius & Peter Kuhry
9. **Mantle xenon isotope systematics reveals that no substantial recycling of atmospheric xenon into the deep Earth occurred before 2.5 billion years ago, indicating that downwellings were drier in the Archaean era than today.**
Rita Parai & Sujoy Mukhopadhyay
10. **Similarities between the patterning of the lateral plate in Ciona and of the neural plate ectoderm in vertebrates indicate that compartmentalization of the lateral plate ectoderm preceded the advent of vertebrates.**
Ryoko Horie, Alex Hazbun[...] & Takeo Horie

11. **Metagenomic, chemical and biomass analyses of topsoil samples from around the world reveal spatial and environmental trends in microbial community composition and genetic diversity.**
 Mohammad Bahram, Falk Hildebrand[...] & Peer Bork
12. **Mitochondrial double-stranded RNA can induce an interferon response if released into the cytoplasm, but self-recognition is prevented by SUV3 helicase and PNPase exoribonuclease.**
 Ashish Dhir, Somdutta Dhir[...] & Nicholas J. Proudfoot
13. **Human neural stem cells from the subventricular zone are identified as the cells of origin that contain the driver mutations for glioblastomas.**
 Joo Ho Lee, Jeong Eun Lee[...] & Jeong Ho Lee
14. **A system that targets DNA polymerase activity with CRISPR-guided nickases to provide genetic diversification at user-defined loci enables forward genetic approaches.**
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15. **Selective inhibitors of KAT6A and KAT6B inhibit MYST-catalysed histone acetylation, induce cell cycle exit and cellular senescence without causing DNA damage, and arrest lymphoma progression in mouse models.**
 Jonathan B. Baell, David J. Leaver[...] & Tim Thomas
16. **A cryo-electron microscopy structure of human dynamin-1 demonstrates conformational changes and sheds light on the fission of membranes during endocytosis.**
 Leopold Kong, Kem A. Sochacki[...] & Jenny E. Hinshaw
17. **A cryo-electron microscopy structure of the mammalian mitochondrial translation initiation complex reveals unique features that are necessary to initiate mitochondrial translation and highlights a possible membrane-targeting peptide.**
 Eva Kummer, Marc Leibundgut[...] & Nenad Ban

Nature

Volume 560 Issue 7718, 16 August 2018

1. **Single-cell RNA sequencing analysis identifies cell types and lineages in airway epithelium, including the pulmonary ionocyte, a new cell type predominantly expressing the cystic fibrosis gene CFTR.**
 Daniel T. Montoro, Adam L. Haber[...] & Jayaraj Rajagopal
2. **The extent, origins and consequences of genetic variation within human cell lines are studied, providing a framework for researchers to measure such variation in efforts to support maximally reproducible cancer research.**
 Uri Ben-David, Benjamin Siranosian[...] & Todd R. Golub
3. **Successive fusion of yeast chromosomes is used to produce a single-chromosome strain that is viable, albeit with slightly reduced fitness.**
 Yangyang Shao, Ning Lu[...] & Zhongjun Qin
4. **Two- and three-layer WTe₂ exhibits spontaneous out-of-plane electric polarization that can be switched electrically at room temperature and is sufficiently robust for use in applications with other two-dimensional materials.**
 Zaiyao Fei, Wenjin Zhao[...] & David H. Cobden
5. **Heterobilayer excitonic devices consisting of two different van der Waals materials, in which excitons are shared between the layers, exhibit electrically controlled switching actions at room temperature.**
 Dmitrii Unuchek, Alberto Ciarrocchi[...] & Andras Kis
6. **Direct observation of the anode–electrolyte interface in a lithium-metal battery, without removing the liquid electrolyte, reveals two types of dendrites, one of which may contribute disproportionately to capacity fade.**
 Michael J. Zachman, Zhengyuan Tu[...] & Lena F. Kourkoutis
7. **Combining cycloaddition and carbon–carbon cross-coupling offers a way of simplifying the enantioselective preparation of chemical building blocks, natural products and medicines such as the antipsychotic asenapine.**
 Tie–Gen Chen, Lisa M. Barton[...] & Phil S. Baran

8. **A cooperative chemoenzymatic reaction combines photocatalytic alkene isomerization with enzymatic reduction to generate enantioenriched products in a stereoconvergent manner.**
Zachary C. Litman, Yajie Wang[...] & John F. Hartwig
9. **Satellite observations and Earth system model simulations reveal that marine heatwaves have increased in recent decades and will increase further in terms of frequency, intensity, duration and spatial extent.**
Thomas L. Frölicher, Erich M. Fischer & Nicolas Gruber
10. **Female zebra finches exhibited categorical perception of colour signals, as they categorized colour stimuli that varied along a continuous scale and showed increased discrimination between colours from opposite sides of the category boundary compared to equally different colours from within a category.**
Eleanor M. Caves, Patrick A. Green[...] & Stephen Nowicki
11. **Experimental whole-ecosystem warming treatments of a Picea–Sphagnum peat bog reveal the likely phenological consequences of future temperature increases that exceed those of historical climate regimes.**
Andrew D. Richardson, Koen Hufkens[...] & Paul J. Hanson
12. **Many small molecules that stimulate oligodendrocyte formation act not through their canonical pathways but by inhibiting enzymes within the cholesterol biosynthesis pathway and thereby inducing the accumulation of 8,9-unsaturated sterols.**
Zita Hubler, Dharmaraja Allimuthu[...] & Drew J. Adams
13. **Single-cell RNA sequencing analysis is used to identify cell types in the tracheal epithelium, including previously unidentified ionocytes, which express high levels of the cystic fibrosis transmembrane conductance regulator, CFTR.**
Lindsey W. Plasschaert, Rapolas Žilionis[...] & Aron B. Jaffe
14. **Melanoma cells release programmed death-ligand 1 (PD-L1) on the surface of circulating exosomes, suggesting a mechanism by which tumours could evade the immunessystem, and the potential application of exosomal PD-L1 to monitor patient responses to checkpoint therapies.**
Gang Chen, Alexander C. Huang[...] & Wei Guo
15. **A pro-survival multiprotein signalling supercomplex consisting of the B cell receptor, MYD88, TLR9 and mTOR is discovered that coordinates NF- κ B activation in diffuse large B cell lymphoma, and provides mechanistic insight into the efficacy of drug combinations.**
James D. Phelan, Ryan M. Young[...] & Louis M. Staudt
16. **Yeast chromosomes have been fused to produce viable strains with only two chromosomes that are reproductively isolated from the sixteen-chromosome wild type, but otherwise show high fitness in mitosis and meiosis.**
Jingchuan Luo, Xiaoji Sun[...] & Jef D. Boeke
17. **During sexual reproduction in Schizosaccharomyces pombe, the rapid reconstitution of a bipartite Mi–Pi transcription complex after fusion blocks re-fertilization and induces meiosis, which ensures that the genome is maintained.**
Aleksandar Vještica, Laura Merlini[...] & Sophie G. Martin

Nature

Volume 560 Issue 7719, 23 August 2018

1. **A method has been developed to infer whether the expression of each gene in a single cell is increasing or decreasing, and at what rate, using RNA-sequencing data. This tool has many potential applications.**
Allon M. Klein
2. **Certain materials contain both electric dipoles and magnetic moments. An experiment demonstrates that these properties can be coupled in previously unrecognized ways, leading to advanced functionality.**
John T. Heron & Julia A. Mundy
3. **The route to the establishment of a beneficial microbial community in the gut after birth is not fully understood. It now emerges that a gut-cell protein in newborn mice shapes the long-term composition of this community.**
Andrew J. Macpherson & Stephanie C. Ganal-Vonarburg

4. **A programmable array of superconducting quantum bits can simulate phase transitions in quantum systems, a step towards the study of exotic physics that is difficult or inefficient to model using ordinary computers.**
Matthias Troyer
5. **A drug that slows cancer growth has been found to elevate the level of the hormone insulin. This insulin rise lessens the drug's effectiveness, but a diet that lowers insulin can increase the benefits of the therapy in mice.**
Michael Pollak
6. **CPEB4 binds the mRNA of genes known to be associated with autism and shows an isoform imbalance in individuals with autism, and an equivalent imbalance in mice induces an autism-like phenotype.**
Alberto Parras, Héctor Anta[...] & José J. Lucas
7. **A cryo-electron microscopy structure of the insect Orco subunit, which forms ion channels with diverse olfactory receptors, reveals a tetrameric cation channel and sheds light on insect olfaction.**
Joel A. Butterwick, Josefina del Marmol[...] & Vanessa Ruta
8. **Cross-correlation analysis of high-resolution spectra obtained as the exoplanet KELT-9b transited its host star reveals neutral and singly ionized atomic iron and singly ionized atomic titanium in the exoplanet's atmosphere.**
H. Jens Hoeijmakers, David Ehrenreich[...] & Luca Di Fabrizio
9. **A large-scale programmable quantum simulation is described, using a D-Wave quantum processor to simulate a two-dimensional magnetic lattice in the vicinity of a topological phase transition.**
Andrew D. King, Juan Carrasquilla[...] & Mohammad H. Amin
10. **A counter-intuitive state—known as a topological Anderson insulator—in which strong disorder leads to the formation of topologically protected rather than trivial states is realized in a photonic system.**
Simon Stützer, Yonatan Plotnik[...] & Alexander Szameit
11. **The magnetization or polarization of domain states in multiferroics can be reversed while retaining the overall domain pattern, owing to the inherent versatility in coupling the large number of multiferroic order parameters.**
N. Leo, V. Carolus[...] & M. Fiebig
12. **Elevated rates of reverse weathering within silica-rich oceans led to enhanced carbon retention within the ocean–atmosphere system, promoting a stable, equable ice-free climate throughout Earth's early to middle ages.**
Terry T. Isson & Noah J. Planavsky
13. **A Triassic stem turtle from China has a mixture of derived characters and plesiomorphic features, including an edentulous beak and a rigid puboischiadic plate.**
Chun Li, Nicholas C. Fraser[...] & Xiao-Chun Wu
14. **Analysis of the El Chichón and Mount Pinatubo volcanic eruptions suggests that solar radiation management strategies using stratospheric sulfate aerosols would do little to counterbalance the effects of climate change on global crop yields.**
Jonathan Proctor, Solomon Hsiang[...] & Wolfram Schlenker
15. **Müller glia in mature mouse retina can be stimulated to produce rod cells; this treatment restores visual responses in a model of congenital blindness.**
Kai Yao, Suo Qiu[...] & Bo Chen
16. **Age-dependent epithelial expression of the innate immune receptor TLR5 in the gut of newborn mice selects against the presence of flagellated bacteria and influences microbiota composition throughout life.**
Marcus Fulde, Felix Sommer[...] & Mathias W. Hornef
17. **RNA velocity, estimated in single cells by comparison of spliced and unspliced mRNA, is a good indicator of transcriptome dynamics and will provide a useful tool for analysis of developmental lineage.**
Gioele La Manno, Ruslan Soldatov[...] & Peter V. Kharchenko
18. **Glucose–insulin feedback can reactivate PI3K in tumours treated with PI3K inhibitors, reducing therapeutic efficacy, but this effect can be reduced by using drugs or diet to suppress the insulin response.**

- Benjamin D. Hopkins, Chantal Pauli[...] & Lewis C. Cantley
- 19. An autoinhibitory conformation of the histone H3K9 methyltransferase Clr4 of *Schizosaccharomyces pombe* helps to prevent aberrant heterochromatin formation and maintains epigenetic stability.**
Nahid Iglesias, Mark A. Currie[...] & Danesh Moazed
 - 20. Inositol hexakisphosphate, which is found in all mammalian cells, binds to two separate sites to promote the assembly and maturation of HIV-1 virus particles.**
Robert A. Dick, Kaneil K. Zadrozny[...] & Volker M. Vogt

Nature

Volume 560 Issue 7720, 30 August 2018

- 1. Subwavelength-grating metamaterial structures, their main operation principles and their implementation in integrated photonic devices are reviewed.**
Pavel Cheben, Robert Halir[...] & David R. Smith
- 2. The rapid development of cell culture and animal models has facilitated a new understanding of ZIKV biology and made it possible to generate multiple ZIKV vaccine candidates, which are advancing through clinical trials.**
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- 3. The Newtonian gravitational constant is measured with two independent methods, yielding results with relative standard uncertainties of 11.6 parts per million—the lowest uncertainty reported until now.**
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- 4. Stimulating the release of serotonin (5-HT) in the nucleus accumbens in wild-type mice promotes sociability, and rescues deficits in social behaviours in a mouse model of autism.**
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Seychelle M. Vos, Lucas Farnung[...] & Patrick Cramer
- 7. The cryo-electron microscopy structure of an activated transcription elongation complex of RNA polymerase II bound to DRB sensitivity-inducing factor and the elongation factors PAF1 complex and SPT6 is reported at 3.1 Å resolution.**
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- 8. The molecular gas in the inner kiloparsec of a submillimetre-bright galaxy is clumpy and gravitationally unstable, collapsing to form stars at a rate that will deplete the gas in about 100 million years.**
K. Tadaki, D. Iono[...] & P. Kamieneski
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- 11. The growth rate of global atmospheric CO₂ concentration is faster in drier years, independently of temperature; this relationship is underestimated in current carbon cycle models.**
Vincent Humphrey, Jakob Zscheischler[...] & Sonia I. Seneviratne
- 12. Neural networks trained on data from about 130,000 aftershocks from around 100 large earthquakes improve predictions of the spatial distribution of aftershocks and suggest physical quantities that may control earthquake triggering.**

- Phoebe M. R. DeVries, Fernanda Viégas[...] & Brendan J. Meade
13. **Experimental data from, and mathematical modelling of, colonies of the clonal raider ant *Ooceraea biroi* demonstrate that increases in group size generate division of labour among similar individuals, increased homeostasis and higher colony fitness.**
Y. Ulrich, J. Saragosti[...] & D. J. C. Kronauer
 14. **Satellite data for the period 1982–2016 reveal changes in land use and land cover at global and regional scales that reflect patterns of land change indicative of a human-dominated Earth system.**
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 15. **Integrated analyses of multiple cohorts are used to obtain a better understanding of the immune state of latent infection with *Mycobacterium tuberculosis*, and factors that mediate and/or predict transitions from latent infection to active disease.**
Roshni Roy Chowdhury, Francesco Vallania[...] & Yueh-hsiu Chien
 16. **Single-cell RNA sequencing is used to characterize cell types in nasal tissues from human patients with chronic rhinosinusitis, revealing a role for tissue stem cells in allergic inflammatory memory.**
Jose Ordovas-Montanes, Daniel F. Dwyer[...] & Alex K. Shalek
 17. **The Ras-related GTPase RAP2 is a key intracellular signal transducer by which extracellular matrix rigidity controls mechanosensitive cellular activities through YAP and TAZ.**
Zhipeng Meng, Yunjiang Qiu[...] & Kun-Liang Guan
 18. **A cynomolgus monkey model deficient in SIRT6 protein exhibits severe retardation in prenatal development, in which neuronal differentiation is delayed by activation of the H19 long non-coding RNA.**
Weiqi Zhang, Haifeng Wan[...] & Baoyang Hu
 19. **The crystal structure of the Frizzled 4 receptor transmembrane domain is reported to a resolution of 2.4 Å in a ligand-free state.**
Shifan Yang, Yiran Wu[...] & Fei Xu

Nature

Volume 561 Issue 7721, 6 September 2018

1. **Longer human lives have led to a global burden of late-life disease, and so interventions, including changes to lifestyle and medical innovations, are needed to prevent disease and increase late-life health.**
Linda Partridge, Joris Deelen & P. Eline Slagboom
2. **Temporal information that is useful for episodic memory is encoded across a wide range of timescales in the lateral entorhinal cortex, arising inherently from its representation of ongoing experience.**
Albert Tsao, Jørgen Sugar[...] & Edvard I. Moser
3. **The enzyme glutamine synthetase is active in endothelial cell migration during angiogenesis, through autopalmitoylation and the regulation of RHOJ signalling.**
Guy Eelen, Charlotte Dubois[...] & Peter Carmeliet
4. **Cryo-electron microscopy analysis of the purified Plasmodium translocon of exported proteins (PTEX) reveals two distinct resolved states, suggesting a mechanism by which Plasmodium falciparum exports malarial effector proteins into erythrocytes.**
Chi-Min Ho, Josh R. Beck[...] & Z. Hong Zhou
5. **Maps of Jupiter's internal magnetic field at a range of depths reveal an unusual morphology, suggesting that Jupiter's dynamo, unlike Earth's, does not operate in a thick, homogeneous shell.**
Kimberly M. Moore, Rakesh K. Yadav[...] & Steven M. Levin
6. **Arbitrarily shaped, defect-free three-dimensional synthetic structures with up to 72 individually controlled atoms are assembled using holographic methods and moving tweezers.**
Daniel Barredo, Vincent Lienhard[...] & Antoine Browaeys
7. **An experiment inspired by Maxwell's 'demon' thought experiment uses a series of reversible operations to fully fill a three-dimensional optical lattice with ultracold atoms and realize a low-entropy state.**

- Aishwarya Kumar, Tsung-Yao Wu[...] & David S. Weiss
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Qiushui Chen, Jing Wu[...] & Xiaogang Liu
 9. **A lithographic patterning and release method is used to create a dense, fluctuating, Brownian system of mobile colloidal kite- and dart-shaped Penrose tiles over large areas that retains quasi-crystalline order.**
Po-Yuan Wang & Thomas G. Mason
 10. **Soil macroporosity responds rapidly to climate variations and may induce wide-ranging changes in soil hydraulic conductivity by the end of the century.**
Daniel R. Hirmas, Daniel Giménez[...] & Cassandra J. Wilson
 11. **A well-preserved clutch of *Kayentatherium wellsi* perinates sheds light on the timing of the evolution of mammalian traits, including reduced clutch sizes and the allometric lengthening of the face during ontogeny.**
Eva A. Hoffman & Timothy B. Rowe
 12. **Chronic exposure to sulfoxaflozole (a sulfoximine-based insecticide) has severe sub-lethal effects on bumblebee (*Bombus terrestris*) colonies; exposed colonies produced fewer workers and fewer reproductive offspring than unexposed control colonies.**
Harry Siviter, Mark J. F. Brown & Ellouise Leadbeater
 13. **Genomic evidence of the offspring of a Neanderthal mother and a Denisovan father suggests that mixing among different hominin groups may have more been frequent than previously appreciated.**
Viviane Slon, Fabrizio Mafessoni[...] & Svante Pääbo
 14. **In *Caenorhabditis elegans*, starvation early in life suppresses later sex-specific pruning of synapses through lasting changes in monoaminergic signalling.**
Emily A. Bayer & Oliver Hobert
 15. **The bacterial metabolite ADP-heptose activates NF- κ B in host cells via alpha-kinase 1 and the TIFA-TRAF signalling pathway.**
Ping Zhou, Yang She[...] & Feng Shao
 16. **The inactivation of tumour suppressor genes at the level of mRNA occurs by the generation of truncated proteins in leukaemia.**
Shih-Han Lee, Irtisha Singh[...] & Christine Mayr
 17. **The long non-coding RNA NORAD interacts with proteins involved in DNA replication and repair, and controls the ability of RBM38 to form a ribonucleoprotein complex that helps to maintain genomic stability.**
Mathias Munschauer, Celina T. Nguyen[...] & Eric S. Lander
 18. **The structures of tau filaments from patients with the neurodegenerative disorder Pick's disease show that the filament fold is different from that of the tau filaments found in Alzheimer's disease.**
Benjamin Falcon, Wenjuan Zhang[...] & Michel Goedert

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1. **Chemical optimization of arylomycins results in an inhibitor of bacterial type I signal peptidase that shows activity both against multidrug-resistant clinical isolates of Gram-negative bacteria in vitro and in several in vivo infection models.**
Peter A. Smith, Michael F. T. Koehler[...] & Christopher E. Heise
2. **Osteoclasts secrete small extracellular vesicles that stimulate osteoblasts, promoting bone formation via receptor activator of nuclear factor-kappa B ligand (RANKL), thereby linking bone formation and resorption.**
Yuki Ikebuchi, Shigeki Aoki[...] & Hiroshi Suzuki
3. **Comparison of multiple lesions from individual pancreases sheds light on how ancestral clones can spread through the ductal system and give rise to precursor lesions, with acquisition of further mutations leading to pancreatic cancer.**
Alvin P. Makohon-Moore, Karen Matsukuma[...] & Christine A. Iacobuzio-Donahue

4. **Observations of a hot flow anomaly accelerating solar-wind ions suggest a mechanism for such acceleration—a Fermi acceleration trap caused by Earth’s bow shock interacting with the solar wind.**
L. Turner, L. B. Wilson III[...] & J. L. Burch
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M. Ahmadi, B. X. R. Alves[...] & J. S. Wurtele
6. **Rates of radiative heat transfer between sub-wavelength planar membranes are experimentally and theoretically shown to exceed the blackbody limit in the far field by more than two orders of magnitude.**
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Mark Schuerch, Tom Spencer[...] & Sally Brown
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11. **Tools are embodied by the human somatosensory system, serving as sensory extensions of the human body.**
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12. **Four transcription factors that specify keratinocyte cell fate, facilitate in vivo reprogramming of wound-resident mesenchymal cells, epithelialization and regeneration of skin epithelial tissues in mice.**
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Danielle A. Sliter, Jennifer Martinez[...] & Richard J. Youle
16. **During starvation, glyceraldehyde 3-phosphate dehydrogenase (GAPDH) targets GTPase-activating proteins to inhibit multiple intracellular transport pathways, thereby promoting energy homeostasis.**
Jia-Shu Yang, Jia-Wei Hsu[...] & Victor W. Hsu
17. **Cotranslational assembly is a prevalent mechanism for the formation of oligomeric complexes in *Saccharomyces cerevisiae*, with one subunit serving as scaffold for the translation of partner subunits.**
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1. **Therapeutic T cells bearing ligands engineered to optimize adhesion and transmigration through the blood–brain barrier can be targeted to brain tumours.**
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2. **Differential DNA methylation and the long-range effects of chromatin organization lead to pronounced differences in recombination landscape between males and females.**
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6. **An analysis of the motions of six million stars in the Milky Way disk reveals substructures such as snail shells and ridges, indicating that our Galaxy has been recently perturbed.**
T. Antoja, A. Helmi[...] & C. Soubiran
7. **Electron acceleration to very high energies is achieved in a single step by injecting electrons into a ‘wake’ of charge created in a 10-metre-long plasma by speeding long proton bunches.**
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8. **A teleported controlled-NOT gate is realized experimentally between two logical qubits implemented as superconducting cavity quantum memories, thus demonstrating an important tool for universal computation in a quantum modular architecture.**
Kevin S. Chou, Jacob Z. Blumoff[...] & R. J. Schoelkopf
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10. **Truncated tetrahedral nanocrystals can self-assemble into one-, two- and three-dimensional superstructures.**
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11. **Studies of an Antarctic marine sediment core suggest that the East Antarctic Ice Sheet retreated in the vicinity of the Wilkes Subglacial Basin during extended warm periods of the late Pleistocene, when temperatures were similar to those predicted to occur within this century.**
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14. **Stimulating the intrinsic growth capacity of neurons and providing growth-supportive substrate and chemoattraction can allow axon regrowth across anatomically complete spinal cord injuries in adult rodents.**
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