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Volume 619 Issue 6139, 5 November 2026

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Power Syn

The cry of the cicada brings about how different species interact is one of the key factors determining how an ecosystem might respond to the pressures of a warming world. But it feels a known about how interactions between key vertebrate predators might be influenced in such circumstances. In this week's issue, Adrian Hall-Jones and colleagues shed some light on this problem, looking at interactions between two top predators in the Chelsea National Park of southern Australia. They report that if the other disease had reduced the number of rabbits in the park, subsequent drought conditions caused a kind of arms race between these birds [...] Read on

Cover image: Gabriela Vargas.

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Nature awards recognize inspiring women in science

This year's winners are a wonderful example of what can be achieved when women are given the opportunity to thrive — like all those shortlisted — as shown by the desire to support others.

Ian Graf

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Trump's executive order on women's health feels like déjà vu

Previous US administrations fell short on promised improvements to women's health research — here's what real change will take.

Mina Gajjarvold

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Even exoguanosa black holes can't explain dark matter

The theoretical object would have left a larger imprint on cosmic radiation if they were a source of the invisible force pulling together the galaxies.

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Burn owls' ancestors made a transatlantic flight

Genome analysis shows that the owls split from those in the Americas, then colonized the rest of the world 3 million years ago.

Research Highlight 29 Oct 2026

Measles made a stability return on another virus took the spotlight

Vaccination rates dropped after the COVID-19 pandemic, leading to outbreaks around the world. Now, they're getting under control.

Research Highlight 27 Oct 2026

Methane emissions remain flat even as Nigeria's US oil region opens the tap

Several of the greenhouse gas from the Permian Basin are measured near constant even as petrol drop and oil and gas production tripled.

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Brazil election: many scientists relieved as Lula wins surprise victory

Scientific organizations in Brazil had voiced concern over how Lula's rival Jair Bolsonaro is defined his opponent in a run-off.

Mariana Lanfranco

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These three red flags could unmask dodgy journals

Ensure publishing practices and ethics, including dishonest use of data, continue to ensure the titles they list are reputable.

Miriam Rashid

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Can science make your dog live longer? Longevity craze comes to pets

The growing industry — and science — of extending lifespans is offering hope to pet owners and academics alike.

Heidi Ledford

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The brain depletions billions of neuron neurons around the time we're born

A study combining 6 various neurologists from Princeton Council's profit is behind the work that might shake them up.

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Is research funding now a lottery? Film funder EIC swamped by applications

Funding for the European Research Council's profit is behind the work that might shake them up.

Jonathan Gallagher

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Could a giant sunshade in space 'solve the global warming'? Scientists are taking the idea seriously

Some say the concept is complete fantasy, but scientists analysis suggest that for hiding just a of a billion Swedish might make it feasible to slow down.

Mariana Lanfranco

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Mysterious flickering brain signals could help to unlock secrets of consciousness

Monkeys' brain activity flips 10 times per second between patterns linked to objects of which the monkeys are aware and patterns for objects outside their awareness.

Mariana Lanfranco

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This cholesterol drug promised to be a game-changer. Why did it flop in the clinic — and is there still hope?

A decade-long search ended about therapies that don't work (if bioavailability) — an assessment calculations. But then, the major lipid failed to clinical trials and now scientists are scrambling to work out what went wrong.

Cassandra Willyard

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When humans disappear, biodiversity takes a surprising turn

Ten decades counterpoints the world over the rest of its new people. In others, descendants in the wild thrived.

Emma Marris

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Earth's resources outside humanity – but they come at a high price

The first evidence for damage caused by an unusual new type of pollution.

Rachel Ehrenberg

Book Review 30 Nov 2026

How researchers debunked 'race science': a triumph of scientific self-correction

Two researchers reconstruct century-books among a form of misguided ideas for human-core were dismantled by good scientific practices — although their efforts are still left to map.

David Silverberg

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Cities are changing — and architects must adapt

Climate change is reshaping urban environments. Architect Kate Raiz tells Nature that technology offers solutions, but citizens must get the final say.

Vivien Marx

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Five overlooked steps to identify new epidemics, fast

Current measures to track emerging epidemics have a key limitation: they don't watch if the diseases causes unusual or unexpected symptoms.

Tanya Turan-Wolker & Daniel Griffin

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How democracy depends on science — and must protect it

Skilled information from trusted experts is crucial to help the public and governments navigate rapid changes and increasing complexity.

Patrick Kabanza, Naomi Oreskes, ... Mengistu Yimer

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Why we're setting up an institute for radically broad thinking

The scale of today's challenges demands a fresh approach — and we all disciplines. Here's how we're making space for researchers to generate new ideas.

Alice Chen, Patrick Cramer & David Rand Herzog

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Universities must measure learning, both with and without AI assistance

Christoph Teichos

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Safety alerts must reach visiting PhD students

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China should share the evidence behind animal-testing alternatives openly

Hao Chen, Wenting Wang & Wei Li

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Research honours need clear and fair rules

Wanyun Dou

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Will my lack of country-specific grants limit my chances of employment abroad?

A researcher in Latin America seeks advice on the best way to present themselves when applying for faculty positions in Europe and North America.

Christina Pai

Collection: Re-tapping work for working scientists

Technology Feature

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Meet Neuropixels: how probes that track hundreds of brain cells at once are revolutionizing neuroscience

From neurons in a mouse, test to human brain cells, and neural recordings are ensuring the inner workings of the brain.

Elena Rosen

Technology Feature: Neuropixels leads the world's way

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Cutting-edge technique uncovers how the spine's shock absorbers bear load

An exciting imaging approach reveals how discs of soft tissue in the spine respond to compressive forces at the micrometre and nanometre scales.

Teresa Iuliano

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Using AI to offer personalized health advice

The use of artificial intelligence tools to medicine is increasing. What types of technology might be on the horizon and how can such health advice tools be tested?

Enrico Petrucci

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Large-scale single crystals printed layer by layer

A 3D printing method has made single crystals of metals and alloys in complex shapes and up to one metre in length, as needed for advanced technological applications.

Gregory S. Rohrer

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Spider-sensor stages

How cues are evaluated and coordinate sleeping behaviours? An analysis of spiders offers insights about how sleep evolved.

Niels Ferlmann

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People's social networks can be unintentionally reshaped during randomized interventions

A re-examination of a randomized controlled trial for a health advice intervention reveals significant effects and alternative relationships in social frictions.

Ioana Cristofor & Ana M. Bianco Saavedra

News & Views 14 Oct 2026

How early tetrapods got their neck

An fish evolved into four-limbed creatures, how skull separated from their shoulders to form a neck. Now we learn that this early neck was surprisingly rigid.

Tetsuya Hirasawa

Reviews

Review Article 30 Nov 2026

Accelerating communication and deployment of indoor photovoltaics

Recent progress in photovoltaics has been made to enable the use of solar cells in the laboratory into the photovoltaic products suited to real indoor conditions, focusing on the challenges and opportunities for indoor-use solution using Internet-of-Things (IoT) devices.

Tao Ryan Gun, Yong Cai, ... Wei Chen

Articles

Article Open Access 30 Oct 2026

Imaging cryoplasmic below the subscooper stability limit

A new physics-based method combining the use of automatic differentiation to optimize millions of model parameters with a flexible physical model is described that enables the imaging of the Earth's subsurface at unprecedented resolution.

Rudrajit Mitra, Edward J. Wang, ... Alexandros E. Ribak

Article Open Access 28 Oct 2026

Solid-cycle chirographic ν1 similar_tower - Majorana transitions in graphene

A method for growing wafer-scale single-crystal monolayer graphene on the commercially available germanium thin film Bilbao zone is demonstrated and used to enable the highest-mean-electron-mobility transistors at room temperature.

R. Eggert, S. Hansen, ... Y. Miller

Article 28 Oct 2026

Time-reversal symmetry-breaking spin injection from a compensated magnet

Spin injection from an antiferromagnetic Mn3Sn generates spin torque that can switch a perpendicularly magnetized ferromagnet, demonstrating a potential pathway for ultrafast, energy-efficient spintronic devices.

Liora Bibiana, Antonin Badoux, ... Yifei Cavaliere

Article Open Access 28 Oct 2026

Delayed-electron- hole recombination in a pseudo-direct semiconductor

Pseudo-direct exchange in bismuth vanadate is shown to be a spin-dependent process governing strong light absorption.

Marcelle Rigbolotti, Delalina Ramelan, ... Laura Mc Kenn

Article 28 Oct 2026

Monolithically and in situ integrated PbS infrared imagers

A method for growing integrated colloidal quantum dot infrared imagers on wafer-scale monolithic in situ integration of high-performance semiconductor PbS photodetectors on readout integrated circuits is described, enabling thin-and-lightweight infrared cameras for night vision and machine vision.

Sam Li, Ang Liu, ... Jiang Tang

Article Open Access 28 Oct 2026

Multimodal X-ray imaging reveals hierarchical fibre mechanics

How X-ray modulation is used to characterize the hierarchical structure of human hard tissue, can visualize nanoscale to macroscale mechanics in intact biological organs and fibrous materials.

Zhi Ruishan, Wang Li, Mariachiara ... Hiroaki S. Gupta

Article 27 Oct 2026

Additive manufacturing of ultrahang and architected single crystals

A free-form additive manufacturing method that uses alternating and solvent heat is described to fabricate mining rules soft, centimetre diameter single crystals of 1,000 nL as well as hard-to-process refractory metals, including Ni and Mo. Re and Mo alloys.

Changsheng Liu, Yuxin Liu, ... Xi Wang

Article Open Access 26 Nov 2026

The deep Earth origin of the Great Unconformity

A multisensor drilling study in the Grand Canyon area demonstrates that the Great Unconformity is a widespread surface that was created by deep-Earth processes and not by surface processes alone.

Samuel Zhongwu & Nicolas Flament

Article Open Access 26 Oct 2026

Educational intervention can resolve village social networks

A randomized controlled trial in rural Ethiopia shows that a short educational intervention can reduce disease-like transmission-changed social network structure and increase the spread of new ideas.

Marina Papenfuhs, Laura Fuselbaer, ... Nicholas A. Christakis

Article Open Access 27 Oct 2026

Drought and disease trigger novel interactions among top predators

Climate-driven drought and disease have led to an evolution in raptors, reducing niche theory and abundance and producing cascading effects across lower trophic levels.

Fabrizio Sergio, Daniel Nicholson, ... Ido Pilosof

Article Open Access 14 Oct 2026

Early tetrapod neck mobility modelling as extant analogue

Biomechanical analysis of extant early tetrapods using rigid-body simulations reveals that early tetrapods had limited neck mobility, despite separation of the head and shoulder girdle.

Tetsuya S. Kawamura, Leonardo M. Ferrando, ... Hillary C. Maddin

Article Open Access 27 Oct 2026

Within-family effect of ancestry on complex traits in a Mexican population

This study uses a within-family design to identify significant ancestry differences in complex traits such as height and type 2 diabetes in a genetically diverse population from Mexico City.

Siqi Wang, Jaime Berumen, ... Rene M. Kluwe

Article Open Access 28 Nov 2026

Predicting genome-wide functional constraints with GPN-Star

GPN-Star is a genome-wide model that predicts the functional importance of human variants and their effects on gene function and identifies clinically relevant variants.

Changhoong Yu, Gonzalo Benegas, ... Yun S. Song

Article Open Access 27 Sept 2026

Neuronal detection of social actions directs collective escape behaviour

Collective escape in Drosophila relies on visual detection of escape actions in others, which activates giant neurons that in turn, with midbrain and thalamic neurons encoding social effects that scale with group size to trigger escape behaviour.

Jo Hillen Yu, Keith T. Wagenaar, ... Matthew Cook Wyttenbach

Article Open Access 27 Sept 2026

A intrinsic acid metropolitancy loop governing preferential motor eradication

Motor encoding in mammalian cortex shows that neurons in the motor cortex encode motor decisions, in a key that is intrinsic and associated gene regulatory network.

Lu Tang, Nikolina Orlando, ... Nenad Sestan

Article Open Access 16 Sept 2026

Transcriptional activation of plant immunity by salicylic acid

A mechanistic basis for how the hormone salicylic acid promotes transcriptional activation during plant immune responses is described.

Yongwen Zhang, Maddalena Arigo, ... Jian Hua Zhang

Article Open Access 16 Sept 2026

Mechanism of transcriptional regulation by salicylic acid receptors

Deciphering a dual receptor pathway of salicylic acid signalling in plants offers a mechanistic basis of salicylic acid-mediated defence gene activation, triggering hormone-induced immunity through NPR1 and triggering independent activation by NPR3 and NPR4.

Xiaoli Peng, Haolan Fan, ... Yuelin Zhang

Article Open Access 07 Oct 2026

Alveolar stem cells transdifferentiate to drive bronchiolar regeneration

Alveolar stem cells can transdifferentiate to bronchiolar lineages to repair airway damage, revealing a previously unrecognized cellular mechanism for the lung's regenerative plasticity, and suggesting new therapeutic strategies for airway injury.

Rui Hu, Zhen Liu, ... Bo Zhou

Article Open Access 21 Oct 2026

The anatomy of a personal health agent

A multi-agent framework that coordinates data-driven, medical reasoning and health coaching can help longitudinal wearable and clinical data to provide holistic personal health support to users at home.

A. Ali Heydari, Ken Gu, ... Ahmed Metwally

Article Open Access 14 Sept 2026

Identification of broadly tumour-reactive γδ TCRs from multiple myeloma

Broadly tumour-reactive γδ T cell receptors are identified from a new method of cell-free single-cell RNA sequencing data and expansion of the cell populations can be used as a therapeutic approach.

Michael D. Paul, Carl D. Hamilton, ... Sai W. Mak

Article Open Access 16 Sept 2026

Evolution and heterogeneity of luminal metastatic bladder cancer subtypes

A spatial and single-cell genomic analysis identifies luminal bladder cancer molecular and genetic evolution of the temporal evolution of aggressive histological subtypes and therapy resistance in metastatic bladder cancer.

Yuanyuan Qu, Xiaoyu Li, ... Yuanyuan Qu

Article Open Access 23 Sept 2026

Hepatocytes promote fitness from metastasis of pancreatic cancer by preventing swine

Hepatocytes can lose, but pancreatic cancer (PDAC) cells that lack the enzyme necessary to synthesize urea can segregate hepatocytes to produce the amino acid, thus promoting tumour growth and survival.

Yuanyuan Qu, Xiaoyu Li, ... Yuanyuan Qu

Article Open Access 30 Sept 2026

A TBK1/IKKε signalling axis couples lysosomal stress to ITPA activation

Proteomic and phosphoproteomic analysis of lysosomes identify a nutrient-independent regulatory axis of mTORC1 signalling that mediates lysosomal adaptation to stress and defines druggable vulnerabilities in lysosome-dependent cancers.

Alexandra Esquivel, Andrea Ayuso-Iglesias, ... Dominico Macchiarulo

Article Open Access 07 Oct 2026

Mechanism of spliceosome termination

Structures of the human spliceosome and associated factors dismantle normal and defective spliceosome complexes to enable intron degradation and ensure accurate gene expression.

Soneela Bondada, Rajesh Tawaray, ... Clarence Plumbley

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Amendments & Corrections

Author Correction 27 Oct 2026

Author Correction: Catalyst-free, microchiplet-mediated wave plastic conversion to diacids

Nobuya Sato, Kaito Zhang, ... Yong Wang

Author Correction 19 Oct 2026

Author Correction: Long-read sequencing reveals pre-meiotic gene conversion in sperm

Regan Schwaiger, Sangeet Lee, ... Richard Durbin

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Neuroprosthetics: from animal models to human trials

Spotlight 30 Nov 2026

Neuroscience

The field of neuroscience has seen rapid progress over the past decade, owing in part to better technology and increasing cross-disciplinary studies.

Nature Outlook 30 Nov 2026

Parkinson's disease

Improved therapies and first biological insights are raising hopes for effectively managing this neurodegenerative disorder.

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