



Storm warning
Understanding how hailstorm damage is evolving with climate change is increasingly important: the past two years, for example, have seen multiple hailstorms sufficiently severe to cause billions of dollars' worth of damage. In this week's issue, Qinghong Zhang and colleagues probe this phenomenon on a global scale. Using simulations cross-validated through multimodel comparisons, the researchers were able to build a picture of how human-induced climate change is likely to affect hailstorms. They found that increases in temperature and humidity at lower levels — [show all](#)

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This Week

Editorial

Editorial
27 May 2026

Nature is expanding Registered Reports to all the fields in which we publish
Registered Reports improve the credibility of scientific claims by rewarding big questions, sound methods and solid analyses. They need to become a standard tool in research.

World View

World View
26 May 2026

Why AI can't be trusted to write scientific reviews
The production of the highest-quality literature reviews requires the judgement and expertise of people.
Rupa Sarkar

World View
27 May 2026

GDP and beyond: why treating nature as capital cannot save the planet
Global risks are too great for markets alone to curb. Political considerations must come before economic ones.
Walter J. Rademacher

Research Highlights

Research Highlight
21 May 2026

Did a boy's life-saving gene therapy cause his brain tumour?
Genetic sequencing uncovers a rare case of cancer caused by a virus administered as part of a child's treatment for a genetic disorder.

Research Highlight
21 May 2026

A star gone rogue tears through the Galaxy
The black hole at the Milky Way's centre catapulted a sun-like star to 'hypervelocity' speeds.

Research Highlight
18 May 2026

Secrets of giant ancient jar in Laos unpacked at last
A receptacle on the 'Plain of Jars' was used as a repository for human bones for generations.

Research Highlight
19 May 2026

River oxygen levels are dropping around the world as Earth warms
Satellite data on more than 20,000 rivers reveals small but widespread decreases in dissolved oxygen.

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News in Focus

News

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18 May 2026

Race begins to trial Ebola drugs amid current outbreak
Clinical trials for treatments against the Ebola virus are 'in a strong position' to be launched quickly in the Democratic Republic of the Congo and Uganda.
Ewen Callaway

News
19 May 2026

Researchers who use hallucinated references to face arXiv ban
The preprint server is the latest to impose stiff penalties on authors who contribute to AI 'slog' — but not everyone is convinced it's the right approach.
Daimont Singh Chawla

News
15 May 2026

Genetic survey exposes flaws in widely used mouse models
A survey of more than 300 mouse strains has found widespread discrepancies between how mutant mice are reported and their actual genetic make-up.
Ewen Callaway

News
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China moves AI brain implants from trials towards real-world use
Chinese start-up firms are supercharging their efforts to develop algorithms for brain-computer interfaces that help people to walk and talk.
Xiaoying You

News
15 May 2026

Exclusive: NIH ousts infectious-disease leaders as COVID scientists face US charges
Eight of the top ten officials at the US National Institute of Allergy and Infectious Diseases have now been pushed out since President Donald Trump took office.
Max Kozlov

News
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Could this synthetic egg bring back extinct birds? Researchers urge caution
Colossal Biosciences says its artificial egg has de-extinction and conservation potential.
Ewen Callaway

News Explainer
14 May 2026

Are we really headed for a 'super' El Niño? What the science says
An El Niño is coming, models say, but Nature spoke to researchers about when and how we'll know its intensity.
Alexandra Witze

Features

News Feature
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Too dangerous to release: is Myrthos the start of the restricted-AI era?
What happens when AI companies produce models that they say the public can't have — and how should users and governments react?
Chris Stokel-Walker

News Feature
27 May 2026

Memory on trial: the new science of when to trust eyewitness testimony
Innocent people are frequently convicted of crimes on the basis of a witness's false memories. Emerging science poses a surprising solution.
R. J. Mackenzie

Engineering

Fine fibre membranes aim to limit moisture loss
Breathable microfibre films and advanced analytics inform new approaches to skin hydration.

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Books & Arts

Book Review

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How to breathe life back into brain theory
Neuroscience needs to stop treating the brain as if it is a computer.
Álex Gómez-Marín

Book Review
08 May 2026

Radioactive rain and proving relativity: Books in brief
Andrew Robinson reviews five of the best science picks.
Andrew Robinson

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Opinion

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26 May 2026

Innovation starts in schools — lessons from China
Countries that want successful innovation systems must invest in science education and science teachers.
Dan Tao, Rui Wei & Yonghe Zheng

Correspondence

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26 May 2026

A cautious voice on the closure of China's journal ranking list
Xiaochuang Li & Wenhua Qian

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Poland's economy is thriving, but its science is dying
Maria W. Górna, Michał Tomza & Łukasz Olszowski

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Conservation gains should not be at the mercy of political changes
Juan F. Ovalle & Dylan Craven

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Iran's Internet blackout: a scholar's month in the dark
Mohammad Saei Shosterman

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Work

Feature

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How Iavesdropped on frog conversations
Billie Goodby's experience with hearing loss helped her to develop a robotic tadpole for deciphering the secret lives of amphibians.
Elizabeth Preston

Technology Feature

Technology Feature
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Meet the biologists deciphering marine-mammal histories from baleen, whiskers and tusks
The nascent field of wildlife endocrinology is upending scientist understanding of pregnancies and stress
Virginia Gewin

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Machine learning improves health-care access in Sierra Leone
A machine-learning tool that allocates scarce medicines to meet demand and reduce waste is providing millions with better health care as it rolls out nationwide.
Ziad Obermeyer

News & Views
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Male sex hormone loss aids brain tumour growth
Depletion of sex hormones that enable male development induces neuroinflammation that disrupts hormonal signalling and immune responses against brain tumours.
Frederick S. Vam

Collection: [Cancer at Nature Portfolio](#)

News & Views
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Bee-inspired navigation robot pinpoints its home using a neural network
A simple machine-learning algorithm, inspired by honeybees' visual memory and sense of direction, enables a flying robot to pinpoint its home location.
Barbara Webb

News & Views
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Human cooperation undergoes constant breakdown and repair
Real-world data reveal that cooperation continually falls and recoups. Motivation to cooperate must therefore be actively renewed rather than assumed to sustain itself.
Jabin Wu

News & Views
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Cities affect small and large storms differently
Analysis of a 23-year record of Teian storms reveals how urban landscapes affect storm rainfall — painting a more complex picture than had been realized.
Wei Zhang

Articles

Article
Open Access
27 May 2026

A direct black-hole mass measurement in a little red dot at high redshift
A direct, dynamical black-hole mass measurement in a strongly lensed little red dot at high redshift indicates that it is a massive black-hole seed caught in its earliest accretion phase.
Igora Joudrbalis, Cosimo Marconini ... Saiyang Zhang

Article
Open Access
27 May 2026

Four ppm measurement of the antihydrogen ground-state hyperfine splitting
A measurement of the hyperfine splitting energy of the ground state of antihydrogen at 4 ppm precision reaches a point at which this result is sensitive to the internal structure of the antiproton.
R. Abbati, L. O. de Araujo Azevedo ... D. F. van de Werf

Article
27 May 2026

Dynamical freezing for magnetometry in an interacting spin ensemble
Dynamical freezing, a mechanism by which a driven quantum system may not thermalize to a featureless 'infinite-temperature' state at long times, is experimentally observed in an ensemble of interacting nitrogen-vacancy spins in diamond.
Ya-Nan Lu, Dong Yuan ... Pan-Yu Hou

Article
27 May 2026

Experimental randomness amplification
An experimental realization of device-independent randomness amplification is demonstrated using superconducting qubits, in which a source of weak, correlated randomness is converted into virtually perfect random bits, certified by a Bell test.
Anatoly Kulikov, Simon Storz ... Renato Renner

Article
Open Access
13 May 2026

Efficient robot navigation inspired by honeybee learning flights
A highly efficient navigation strategy taking inspiration from the visual learning flights of honeybees is described, which enables drones to quickly return from longer flights by means of path integration and uses a neural network as a view memory to reach the home location.
Dequan Ou, Jesse J. Hagenaars ... Guido C. H. E. de Croon

Article
Open Access
22 Apr 2026

Evaluating large language models for accuracy incentivizes hallucinations
Metrics such as accuracy systematically reward guessing over admitting uncertainty in large language models: reframing hallucination as an incentive problem opens a practical path towards more reliable language models.
Adam Tauman Kalai, Ofir Nachum ... Edwin Zhang

Article
23 Apr 2026

Field re-entrant superconductivity in Eu-doped infinite-layer nickelates
Eu-doped infinite-layer nickelate $\text{Sm}_{0.85}\text{Ca}_{0.15}\text{NiO}_2$ exhibits a magnetic-field-induced re-entrant superconducting phase in the Eu-rich overdoped regime.
Mingwei Yang, Jinyan Tang ... Darfeng Li

Article
20 May 2026

Advancing solar and wind penetration in China through energy complementarity
Using high-resolution satellite imagery combined with a deep-learning-based framework to build a renewable energy inventory enables a data-driven assessment of solar-wind complementarity strategies to reduce power variability and enhance renewable energy penetration across China.
Yuan Hu, Hou Jiang ... Yu Liu

Article
27 May 2026

Rising global hail damage potential in a warming world
Weather-climate simulations conducted under historical and future scenarios show a shift towards larger hailstones, resulting in global hailstorm-induced damage potential increasing by around 40% by the late twenty-first century.
Shiyi Zhang, Qinghong Zhang ... Xiangyu Lin

Article
Open Access
20 May 2026

Divergent urban storm response to convective, frontal and tropical systems
Analysis of five types of water-season storms in Texas using three-dimensional radar reflectivity data shows that urbanization can influence storm frequency, intensity or vertical distribution, depending on the storm type.
Xinmin Sui, John Nielsen-Gammon ... Dev Niyogi

Article
08 Apr 2026

The importance of competition and facilitation for global tree diversity
Across 17 forest plots (2.7 million trees, 5,400 species), competition dominated overall, but facilitation was relatively stronger near the equator and declined towards higher latitudes, partly linked to temperature, legume-mycorrhizal associations and canopy nursing effects.
Han Xu, Matteo D'Elia ... Fangliang He

Article
Open Access
29 Apr 2026

Increase in wild animal consumption across Central Africa
Wild meat is a fundamental component of the diets of rural Central African populations, accounting for 20% of the recommended daily protein intake, compared with 13% and 6% for those living in towns and cities.
Matta Bessone, Daniel J. Ingram ... Lauren Coad

Article
Open Access
25 Mar 2026

The DNA virome varies with human genes and environments
Analyses of biobank data show that human variation such as age, sex and genetics, particularly at the major histocompatibility complex locus, is associated with viral abundance and supports a causal link between abundance of Epstein-Barr virus and Hodgkin's lymphoma.
Nolan Kamitaki, David Tang ... Po-Ru Loh

Article
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22 Apr 2026

Punctuated decline of human cooperation
Cooperation in group lending declines over time due to shifting behavioural motivations, briefly rebounds after loan restarts, then declines faster again, revealing systematic deviations from rational behaviour during long-term cooperation loss.
Nicholas Sabin, David Klinowski & Felix Reed-Tschooks

Article
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01 Apr 2026

AHR inhibition promotes axon regeneration via a stress–growth switch
AHR functions as a neuronal brake on axon regeneration, integrating environmental sensing, protein homeostasis and metabolic signalling to control the balance between stress adaptation and axonal repair.
Dalia Halawani, Yiqun Wang ... Hongyan Zou

Article
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22 Apr 2026

H₂O₂ repurposes plant O₂ sensing to regulate post-hypoxia responses
Experiments in Arabidopsis demonstrate that group VII ethylene response factors show differential responses to different stimuli, enabling plants in flood-prone environments to adapt to both submergence-induced hypoxia and reoxygenation upon desubmergence.
Salma Akter, Monica Ferri ... Francesco Liccausi

Article
Open Access
22 Apr 2026

Transposable elements are driving rapid adaptation of Enterococcus faecium
Over three decades, rapid expansion of the transposable element SL3 has reshaped *Enterococcus faecium*, which helps to explain this pathogen's growing clinical threat.
Matthew P. Grieshop, Aaron A. Behr ... Ami S. Bhatt

Article
Open Access
15 Apr 2026

A spatial atlas of the healthy human liver from live donors
A human spatial atlas of gene expression in liver based on live donors shows marked porto-central zonation of hepatocytes and non-parenchymal cells, and transcriptionic changes in early steatosis.
Oran Yakubovskiy, Karen Bahar Halperin ... Shalev Itzkovitz

Article
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29 Apr 2026

Spatial atlas of diabetic kidney disease reveals a B cell-rich subgroup
A single-cell spatial atlas identifies a B cell-predominant microenvironment within the profibrotic tubular niche that marks a subset of patients with diabetic kidney disease with rapid progression.
Bernhard Dumoulin, Jonathan Levinsohn ... Katalin Susztek

Article
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Multicentre gene therapy for OTOF-related deafness followed up to 2.5 years
In a multicentre trial of AAV1-hOTOF gene therapy involving 42 participants aged 0.5–32.3 years with autosomal recessive deafness, treatment demonstrated safety, tolerability, and improved hearing and speech perception, with age and distortion product otoacoustic emissions associated with treatment outcomes.
Linying Jiang, Xiaoting Cheng ... Yida Shi

Article
29 Apr 2026

Improving access to essential medicines via decision-aware machine learning
Nationalwide deployment of a novel decision-aware machine learning framework as a decision support tool for the allocation of essential medicines in Sierra Leone resulted in improved access to essential healthcare in this resource-constrained setting.
Angel Tsai-Hsuan Chung, Jatu Abdullah ... Gilbert Bastani

Article
Open Access
06 May 2026

Androgen loss accelerates brain tumour growth via HPA axis activation
Androgens have distinct roles in the brain, acting as immune-based tumour suppressors through neuroinflammation and neuroendocrine mechanisms.
Jueyun Lee, Yoon-Mi Chung ... Justin D. Lathia

Article
01 Apr 2026

Electric dipole moment drives the dynamics of the TNFR1 complex I signallingosome
Long-range interactions mediated by protein electric dipole moments have a role in driving the assembly and disassembly of super-signalling complex I for promoting NF- κ B signalling.
Jianping Liu, Jing Zhao ... James J. Zhou

Article
08 Apr 2026

Engineered immunosuppressive dendritic cells protect against cardiac remodelling
Lesion-targeted immune modulation is a feasible strategy to control cardiac fibrosis, and engineered dendritic cells are a promising therapeutic platform for treating cardiac remodelling and heart failure.
Xiaoying Li, Jiamin Li ... Xinyang Hu

Article
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25 Mar 2026

Ectopic NMDAR expression in cancer unmasks germ-line-encoded autoimmunity
NMDAR expression is sufficient to induce B cell recruitment and affinity maturation, resulting in receptor-modulating antibodies that connect anti-cancer immunity and autoimmunity.
Sam O. Kileman, Kevin Michalski ... Tobias Janowitz

Article
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15 Apr 2026

Molecular basis for methylation-sensitive binding by Cas9
MethCas9, a genome-editing enzyme that is sensitive to the DNA methylation status of the target locus, is characterized and shows promise for targeting hypermethylated DNA regions in cancer cells.
Mitchell O. Roth, Yuerong Shu ... Hong Li

Article
Open Access
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Multomics and deep learning dissect regulatory syntax in human development
The Human Development Multomics Atlas catalogues single-cell accessibility and gene expression data from human fetal cells across 12 organs, enabling the inference of syntactic rules for motifs that govern cell-type-specific transcription factor binding and chromatin accessibility during human development.
Betty B. Liu, Selin Jeyaa ... William J. Greenleaf

Matters Arising

Matters Arising
27 May 2026

Bohmanian mechanics remains unchanged by tunnelling experiment
Aurélien Drezet, Dustin Laskovici & Bernard Michiel Nallet

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Amendments & Corrections

Author Correction
12 May 2026

Author Correction: Predictive coding of reward in the hippocampus
Muhammad Yaghoobi, M. Ganesh Kumar ... Mark P. Brandon

Author Correction
Open Access
12 May 2026

Author Correction: A mechanical ratchet drives unilateral cytokinesis
Alison Kidwell, Ulla Ulfsh ... Jan Brugatis

Publisher Correction
11 May 2026

Publisher Correction: Presymptomatic training mitigates functional deficits in a mouse model of Rett syndrome
Noélan F. A. Hill, Wei Wang & Huda Y. Zoghbi

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Nature Outlook

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27 May 2026

Lung Cancer
Lung cancer kills more people than any other type — and even with smoking on the decline, incidence is persistently high.

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