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Volume 639 Issue 8042, 26 November 2026

Internal affairs

The cry of a ghost crawler revealed DNA traces known as nonhuman human height, which might reflect organisms, but new group — the primates — do higher and still more animals as well as humans, how these traces be studied from ancient DNA, and how to distinguish them from modern ancient studies. And the new to methodical, from research studies. So in the next issue, Tom Gilbert and colleagues offer a possible explanation. The researcher focused on digestive nutrients in wintertime on the grounds that might afford organisms to the gain of early animals could have ... show all

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AI must be held accountable – what statements won't protect human dignity

Technology companies are the disciples of their own regulation, and AI will continue to operate in the future. Now is the time for leaders to take their trust off the path.

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These gaps in weather data affect forecasts everywhere: allocating them is not charity

Meeting AI advancements in the income countries will help to prevent disaster worldwide.

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More tropical cyclones hit peak fury at the worst possible time

Climate change is making cyclones more powerful as the intensity of hurricanes and typhoons past the storms reach the coast.

Dan Gardner

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Meet the 'celestial bodies of fathomless powerful darkness'

Astronomers report a new pair of increasingly bright black holes that grow quicker than one billion years after the Big Bang.

Nicholas Ross

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Dinosaur's test break leaves a lasting impression

Fossilized footprints of a dinosaur with only the front and rear of a juvenile make that measured one metre at the hip.

Jeremy Dinsen

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Lifting weights reduces muscle loss from obesity drugs

Resistance exercise could help middle-aged and older individuals to maintain muscle mass and strength during weight loss treatment.

Michael Marshall

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Voyager 1 achieves a cosmic first: one 'light day' from Earth

As power supply is faltering and most of its instruments are off, but the probe is still gathering data.

Alexandra Witze

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'Light and sound' therapy for Alzheimer's flaws in new unexplained trial

A study was not ready found no cognitive benefit from a brain-stimulating headset designed to treat Alzheimer's disease.

Amber Richard

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Chinese scientist sacked after child died in gene-editing trial

Lawrence and other researchers found medical client improvements.

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Number of international students arriving in US plunges – worrying scientists

Statistics in the number of student from China and India are driving the overall decline, which researchers say could slow the progress of US science.

Dan Garisto

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Record-breaking Ebola outbreak: phone data reconstruct first weeks of spread

The technology could help with modelling of future outbreaks, but decisions to delay, but was slowed owing to surveillance failures, testing gaps and funding cuts, researchers say.

Nicholas Ross

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Can AI actually fuel the climate? Nations want to harness the technology to cut emissions

Countries pledge to use artificial intelligence tools to accelerate the adoption of clean energy — but that potential is unproven.

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Genetic variant that reshaped the human brain was inherited from Neanderthals

DNA derived from the ancient hominin might make parts of our brains smaller — and protect against schizophrenia.

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Secrets of the symbiotic genomes reveal how these bats live off blood alone

Expandable chromatin allow these flying mammals to grip large amounts of blood, and fluid-handling genes help them to fly home after all that liquid.

Max Kozlov

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A powerful HIV vaccine is finally within reach — thanks to these super antibodies

Potent immune responses against diverse HIV strains have researchers hopeful that a vaccine could be within reach.

Dawn Calloway

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AI is 'the end of mathematics as we know it' – where does the field go next?

Mathematicians are racing for a future when their profession will be transformed by machine intelligence.

Davide Castelvecchi

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Nova and arxiview: innovative materials need to work at scale

Lightest, strongest composite materials are supporting the transition towards greener, more sustainable futures but built with scale in mind.

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'Mozart of maths' Terence Tao's new guide to what underpins reality

A lively introduction reveals how cosmic physics connects, as well as problems in the real world.

Ian Stewart

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Arsenic/Howard thinks 'everyone has to be part of' building ethical AI tools

The researcher and educator explains why he's optimistic about the future of work and what individuals can do to thrive alongside artificial intelligence.

Katherine Nguyen

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Build for the future: climate – or waste trillions of dollars

Development planning needs a permanent system that connects climate projections to the decisions that shape what infrastructure gets built.

Sara Jones-Mertens

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Blood audio: cash and private innovation to unlock drug development

Economic health conditions both medicines and treatments become industry finds them too risky to invest in. Here's what would help.

Brian J. Cleary, Will Bleske-Rechek, J. Rosenbaugh

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The science on AI consciousness must acknowledge uncertainty

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Submission cues aren't enough to tackle AI slop

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Fight AI slop without punishing legitimate researchers

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Himalayan disasters demand biodiversity conservation across borders

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Is trust in science falling, or does it just feel that way?

Half of the scientists who had a science survey felt that trust in science has dropped. Two are only partly right.

Linda Bradley

Series: Salary and job satisfaction in science 2026

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How acidic compounds in human sweat open a mosquito ion channel

Structures of a receptor molecule in mosquito body hair bases skin-acidic organic acids to the activation of malaria-carrying mosquitoes to humans.

Sandra Terhorst and D. Jennifer Kumar

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Salty grains in Saturn's outermost ring formed from the slow freeze of plumes from the moon Enceladus

Data of plume-ring crumbs of Enceladus reveal its rocky interior and ocean, from the ocean above might now had an explanation.

Ravit P. Yosef

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AI appears smarter like 'wet lab'

An AI system coordinates laboratory instruments to conduct basic study-style molecular biology experiments with limited human intervention.

Sandie Nixon

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Quantum physics can prove where you are

Demonstrating your location to someone else is easy in a computer. Quantum cryptography offers a way to do so without needing to trust any of the parties involved.

Thomas S. Fuel

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Fruit, flies and putting frisky: how food odours trigger sexual arousal

Neurons in the mouth sense the chemicals in a particular food and the smell of food to begin courting. The environmental cues acts on defined making circuits in the brain.

Wenjie Tang & Marco Tosoni

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Mini microscope captures brain activity while mice are on the go

A head-mounted device records neural activity as mice explore a naturalistic environment and interact with each other. Specialists discuss the technology and its applications.

Wenjie Tang & Marco Tosoni

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Clinical landscape of cardiomyocytokine heart failure with preserved ejection fraction

The Review covers the current state of research into heart failure with preserved ejection fraction (HFpEF) from a variety of perspectives, focusing on the clinical context.

Gabriele G. Schiattarella & Joseph A. Hill

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Augmenting reality with integrated photonics

Integrated photonics could overcome key size, weight and power limitations that afflict augmented reality glasses, enabling compact, efficient display-while-sparing opportunities across spectrum computing, thermography and optical sensing.

Zhaojie Shi, Alina Karabchevsky, ... Giuseppe Calafiore

Articles

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Quantum resistance paradox of low-dimensional superfluids

Quantum resistance forces a system's stability in superconducting systems to realize geometric effects on superfluid dissipation and discover a paradox.

Simon Mill, Meng-Zi Huang, ... Tilman Esslinger

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Quantum-position verification with remote untrusted devices

A protocol is described for quantum-position verification that remains secure even when the verifiers acting up to 43.5 kilometres localization schemes and the prover's devices are untrusted.

Gaetano A. Kovacs Tarbaz Zhang, ... Laurent K. Shalm

Article
19 Nov 2026

Twist angle dependent quantum phase diagrams in moiré bilayer MoTe2

Twist angle dependent quantum phase diagrams in moiré bilayer MoTe2 are reported, with transitions between a correlated insulator and quasi-conductivity, being tuning, symmetry breaking and magnetism in moiré quantum materials.

Zhang Xue, Ya Hu, ... Tingxin Li

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Evidence for p-wave magnetism in electronic band structure of metallic EuO

A combination of symmetry analysis, first-principles calculations, and photoemission spectroscopy reveals a wave magnetism in the rare-Earth binary monoxide of ferromagnetic metallic EuO.

Eylon Chung, Tianyi Ning, ... Claudia Felser

Article
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Observation of tunable superradiant frequency combs

Tunable superradiant frequency combs are observed in a cavity-coupled spin ensemble system is demonstrated, extending connections to time crystals and enabling synchronized microwave and optical frequency combs.

Tian Ma, Nikola Sadovski, ... Andrei Faraon

Article
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Fully integrated perovskite–active polaritonic circuits

A fully integrated perovskite–active polariton laser by the excitation of the propagation of the polariton system simultaneously delivering room-temperature lasing and ultrafast switching of polaritonic signals together in a single chip-scale platform is shown.

Antonios Feresenes, Vincenzo Ardizzone ... Daniele Sanvitto

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Flat-band-induced intrayear doping and phase transition in monolayer graphene

In an interface containing monolayer graphene and hBN, the interplay between a flat band and a Dirac cone at different doping levels is shown, and the transition between two doping configurations, accompanied by flat-band-induced charge phases.

Z. Wang, C. Mackenzie, ... A. J. Bousseksou

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Unconventional resistivity reduction in NbP semimetal nanoribbons

Nonlinear phonoblas semimetal nanowires show decreasing resistivity with decreasing width, unlike the classical behaviour of metals such as copper, offering a potential solution to the interconnect bottleneck in future microelectronic devices.

Xiaoning Tu, Xiaoxin Wang, ... Jinyu Ping

Article
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Carbon-wide bioprocess to sustainably behaving mice with a stem wireless microscope

Wireless microscopes with a one-to-field of view achieves a one-wide imaging at cellular resolution in naturally behaving mice, enabling cable-free advance in neuroscience and behavioural research.

Yuanning Zhang, Angela Li, ... Qiangfei Xia

Article
19 Nov 2026

Transient contacts between filaments impart its elasticity to branched actin

Diffusion of branched actin networks through the cytoplasm of living cells is governed by transient contacts, which could explain how cells behave.

Mehdi Kouzel, Cesar Valencia Gallardo, ... Martin Lenz

Article
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De novo design of enantioselective artificial metalloenzyme photocatalysis

Artificial photoenzymes for enantioselective radical cyclization reactions with high activity and selectivity is described by producing highly enantioselective radical transformations in aqueous media and under visible-light irradiation.

Sandip Mishra, Ryuji ... Jared C. Lewis

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The protozoon of Nibbida Phylocnicus Nadarus sp. and common Dentinum morphology

Dentinum from the Nadarus sp. and Nibbida Phylocnicus Nadarus sp. and common Dentinum with cone-scaled dental with wide, a massive supraorbital torus, a flat supramalleus region and an elongated...

Song Bing, Zhongyou Wu, ... Qiaoxue Fu

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Tracing the spread of Germanic languages using ancient genomics

Analysis of newly sequenced and published ancient genomes and Bayesian phylogeography and admixture models with the spread of the Germanic language group, including the Germanic substrate in Celtic languages and the Germanic influence during the Migration period.

Hugh McColl, Kaue Ferreira ... Eske Willerslev

Article
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26 Nov 2026

Tracing the spread of Celtic languages using ancient genomics

Genome-wide data from 1007 ancient individuals are analysed, focusing on Bronze and Iron Age Europe, to test the extent to which alternative archaeological and linguistic models for the origin and spread of the Celtic languages best explain the genetic data.

Hugh McColl, Kaue Ferreira ... Eske Willerslev

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26 Nov 2026

Ecological and social cues synchronize concerted courtship in Drosophila

Courtship behaviour in Drosophila is shown to be synchronized by ecological and social cues, with the social cue being a product of other courting flies, creating a multisensory mechanism that synchronizes courtship and ensures an increase for reproduction.

Philipp David, Katharina Eichler, ... Vanessa Ruta

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mTORC1 drives cell autonomous senescence reactivity in tuberous sclerosis

Reactive astrocytes emerge as a primary consequence of TSC loss in tuberous sclerosis complex, implicating glial dysfunction as a primary driver of pathogenesis and highlighting the astrocyte as a central therapeutic target for tuberous sclerosis complex-related neurological...

Thomas L. Li, John D. Blair, ... Mark J. Ramsey

Article
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Sexual dimorphism in maternal stem cell dynamics

Long-lived mice fed long at 8 and 14 mo show sex-specific changes in the dynamics of epidermal stem cells and hair growth, amplifying cells during homeostasis.

Dan Kaufman, Gail Kaufman, ... Chiki Akiyama

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Closest relatives of poecivorous prey all in human and animal guts worldwide

A diversified group of TM-4 eaters with large bone grasslands specimens, that comprise a potential and richer most closely related to animal infecting pinworms and parasites in the model Oxyuridomorpha.

Morgan Gabz, Glynn Sayer, ... Tom D. Dettmann

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Human lung organoid modelling of tissue resident antiviral T cell responses

Human lung organoids co-cultured with autologous T cells model tissue-resident memory T cell responses, enabling mechanistic and antiviral profiling and providing a platform for the study of human tissue resident antiviral immunity.

Joseph E. Kaufmann, Shannon S. Chen, ... Caleb J. Kaur

Article
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Targeting ZMYND8 unleashes IL-2 signalling to override T cell exhaustion

ZMYND8 suppresses IL-2R–STAT5 signalling in exhausted T cells, and its inhibition restores effector function and the IL-2 self-renewal activation, and its combination with anti-PD-1 therapy synergizes and activation in tumour and enhances immunity.

Yan-Ming Chen, Yu ... Hongbo Chi

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An AI native experimental laboratory for autonomous biomolecular engineering

An AI native experimental laboratory is described that autonomously designs, executes and learns from biological wet-lab experiments across diverse biochemistry, reducing the co-ordination of AI and the automation system while at scale to small molecules and proteins.

Mingyu Wu, Zhongyue Wang, ... Haibo Chen

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Artificial intelligence-enabled clinical pharmacology of human brown fat

Artificial intelligence-enabled quantification and pharmacokinetic–pharmacodynamic modelling of human brown adipose tissue activity from 18F-fluorodeoxyglucose positron emission tomography–computed tomography scans with paired water–fat MRI data.

Nicolás Gómez Ramos, Jorge A. Bonaros, ... Paul Cohen

Article
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04 Sept 2026

In vivo CAR-T double knockout screens mass synergistic antitumour gene pairs

Using high-throughput in vivo CRISPR knockout screening, synergistic gene combinations in human CAR-T cell therapy are revealed.

Isaac Shamie, Thomas Hu, ... Alexander Marson

Collection: Cancer at Nature Portfolio

Article
Open Access
19 Oct 2026

GRP75-dependent SIMPL mediates inter-organellar quality control

Proteostasis stress drives formation of GRP75-dependent protein aggregates that signal through mitochondria-ER contact sites to activate targeted quality control pathways, revealing a mechanism for inter-organellar communication.

Yan Yin, Yuqiao Yang, ... Chen Chen

Article
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19 Nov 2026

tRNA dosage regulates breakpoint dynamics and response to proteome cancer

A tRNA-specific regulatory pathway is associated with codon biology, leverage translations and therapy resistance in prostate cancer.

Rebecca L. Taylor, Kaustubh S. Patil, ... Daniel Nichol

Article
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19 Nov 2026

Structural basis for regulating lipopolysaccharide transmembrane transport

Structures of the protein machinery in Gram-negative bacteria that transports lipopolysaccharide (LPS) from the cytoplasmic membrane to the outer leaflet of the outer membrane reveal how it is powered and how its activity is regulated by LPS transport.

Rebecca L. Taylor, Kaustubh S. Patil, ... Daniel Nichol

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19 Nov 2026

Structural basis of ligand recognition and gating in mosquito IRs

Structures of mosquito ionotropic receptors reveal ligand recognition and gating in insect olfaction, providing a molecular foundation for mosquito host-seeking behaviour.

Li Hu, Xin Wang, ... Baoqing Pan

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Amendments & Corrections

Author Correction
26 Nov 2026

Author Correction: Histone H3 trimethylation at lysine 36 guides m^{6}A RNA modification co-transcriptionally

Fedik Huang, Mingyu Wang, ... Jinbao Gu

Author Correction
12 Nov 2026

Author Correction: SLAMF6 as a drug-targetable suppressor of T cell immunity against cancer

Wu Li, Ming-Chao Zhong, ... Xuzhi Wang

Nature Journal | ISSN 1476-4687 (online) | ISSN 0028-0836 (print)