

Diversity dividend

Is there any relationship between salaries attained by graduates and the racial diversity of their classmates? This question has generated significant debate but there is a paucity of empirical evidence to help resolve it. In this week's issue, [Dimitris M. Jona-Lasinio](#) and [Marina Tacchini](#) add to that evidence by showing that students who study under racially diverse graduating classes tend to receive higher salaries upon graduation. The researchers used datasets covering two high-earning professional degrees in the USA: Master of Business Administration — [ibid.](#)

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This Week

Editorial 14 May 2026 **Mental-health research is too often ineffective — it is time to change that**

Mental illness needs visibility more urgently than almost any other area of medicine and health care. A new award from Wellcome and Nature aims to raise its prominence.

Editorial 19 May 2026 **Why AI cannot do good science without humans**

With the arrival of AI scientists, it's as well to remember that human wisdom, empathy and sheer messiness are as much part of progress as are process and efficiency.

World View 15 May 2026 **Can the 'steroid Olympics' show the sporting community how to support athletes better?**

The Enhanced Games, which permits the use of performance-enhancing drugs, exposes flaws in the sporting world.

World View 18 May 2026 **The Enhanced Games miss the point: science can clean up sport**

An event that champions performance-boosting substances poses risks to athletes' health — and integrity. Anti-doping science must keep up.

Research Highlight 15 May 2026 **Even mild blows to the head disrupt the microbiome**

Some bacterial species became less abundant in the guts of American football players as the season progressed.

Research Highlight 15 May 2026 **Respoke DNA vaccine offers hope for treatment of notorious brain cancer**

The personalized treatment reprograms the immune system to attack the tumour cells glioblastomas.

Research Highlight 13 May 2026 **Pristine Antarctic ice records the Solar System's travels**

Rare isotopes hint at when the Solar System entered the Local Interstellar Cloud.

Research Highlight 12 May 2026 **Dried to survive, desiccated tardigrades tolerate high heat**

The famously resilient creatures can withstand temperatures of 85 °C if allowed to dry out first.

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News in Focus

News 07 May 2026 **Early-career researchers do more 'disruptive' science than veterans**

Analysis of papers from researchers of scientists shows that older researchers tend to stick with ideas from their past.

News 11 May 2026 **Elsevier vs Meta: first science publisher sues over scrapped research papers**

Science publishing giant Elsevier has joined a class-action lawsuit against Meta that alleges the reproduction of copyrighted works in developing the Llama AI model.

News 12 May 2026 **Ice core reveals longest-ever continuous record of Earth's climate**

Data from Antarctica could help to solve the mystery of why ice ages began to be brief.

News 08 May 2026 **Surge in fake citations uncovered by audit of 2.5 million biomedical science papers**

An analysis of 97 million references has found that rates of fabricated citations have climbed steeply since 2023.

News 06 May 2026 **World's largest forest research agency faces severe setback by Trump administration**

The US Forest Service has proposed closing some three-quarters of its research sites in a move that has provoked widespread fear and uncertainty.

News 08 May 2026 **Beyond GDP: 31 alternatives to the world's favourite measure of economic health**

Proposed UN progress indicators include greenhouse-gas emissions, life expectancy and children's performance in reading and maths.

News 08 May 2026 **World-leading climate centre takes Trump administration to court**

Universities that run the National Center for Atmospheric Research want to keep it from being dismantled.

Features

News Feature 19 May 2026 **It is incredible: How AI is transforming mathematics**

Thanks to some surprising advances, mathematicians are starting to realize that artificial intelligence could radically alter their profession.

News Feature 20 May 2026 **The brain's code seems to be in constant flux. Neuroscientists are baffled**

Neurons fire much more erratically than researchers thought. What does that mean for how the brain works?

News Feature 08 May 2026 **Electrospun fibres and skincare**

Beautiful micro-fibre films and advanced analytics inform new approaches to skin hydration.

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Books & Arts

Book Review 18 May 2026 **Birds get a bad rap: why we should look up to our feathered friends**

Many avian species are threatened, but conservation efforts and birds' high intelligence offer hope.

Book Review 08 May 2026 **Criminals are made, not born: how when you live shapes whether you will break the law**

An analysis of what makes young people more likely to commit crimes tears down the influential assumption that character is the main factor.

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Opinion

Obituary 06 May 2026 **J. Craig Venter obituary: maverick biotechnologist who sequenced the human genome**

The entrepreneur was also a pioneer of synthetic biology.

Comment 19 May 2026 **The uncritical adoption of AI in science is alarming — we urgently need guard rails**

Artificial intelligence is rapidly accelerating scientific output, but risks narrowing inquiry, weakening judgement and undermining how scientists are trained.

Correspondence 19 May 2026 **AI might jeopardize the uncertainty required in science**

Support academic institutions under attack

France's research-primate project goes against its own ethics panel

Airborne DNA can yield insights with the right techniques

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Work

Career Feature 05 May 2026 **Meet the academics refusing to use generative AI**

Researchers say they have their reasons for avoiding AI tools — and they're sick of arguing about it.

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Research

News & Views 29 Apr 2026 **Engineered blood cells stop bleeding in seconds**

Red blood cells have been modified to form strong clots that halt any bleeding almost instantly and then promote tissue regeneration.

News & Views 22 Apr 2026 **Specific combinations of human and viral genetic variants explain a cancer predisposition in southern China**

The interplay between variants of human immune-system genes and stems of Epstein-Barr virus underpins differences in susceptibility to an uncommon throat cancer.

News & Views 08 Apr 2026 **Genetics reveal why people respond differently to GLP-1 weight-loss drugs**

Genetic variants in GLP1R and GIPR, which encode targets of GLP-1-based medications, offer insights into why responses to these drugs vary and who might face adverse effects.

News & Views 13 May 2026 **Targeted electron beam creates thousands of atomic crystal defects**

An electron-beam technique that can precisely create thousands of atomic defects in a crystal could be used to build quantum devices.

News & Views 25 Feb 2026 **Protein engineering fixes a major crop trade-off**

Rational design of a regulatory protein decouples the ability to tolerate cold from the means to acquire phosphorus, effectively enhancing crop yield under cold stress.

News & Views 19 May 2026 **DNA folding changes block production of self-directed antibodies**

DNA rearrangements in immune-system B cells generate diverse antibody-encoding genes and help to avoid producing antibodies that target the body's own tissues.

Articles

Article 13 May 2026 **Gaussian boson sampling with 1,024 squeezed states in 8,176 modes**

A programmable photonic quantum processor, Juzhang 4.0, incorporates 1,024 high-efficiency squeezed states into a hybrid spatial-temporal encoded 8,176-mode circuit.

Article 19 May 2026 **Imaging hidden objects with consumer LiDAR via motion-induced sampling**

Analyses of laboratory experiments using a rate-and-state-based Griffin-like capture framework shows that consumer LiDAR can regulate mainshock nucleation timing with larger forelocks generating higher transient sliding velocities and triggering a more rapid transition to dynamic Coulomb friction.

Article 08 Apr 2026 **Cusp singularity-enhanced Coriolis effect for sensitive chip-scale gyroscopes**

By using singularity physics to enable cubic non-linear scaling of frequency and phase modulations induced by the Coriolis effect to enhance the performance of chip-scale Coriolis vibratory gyroscopes, substantial improvements in signal-to-noise ratio and precision are demonstrated.

Article 14 Apr 2026 **Autonomous closed-loop framework for reproducible perovskite solar cells**

An autonomous closed-loop framework combining machine-learning-driven materials discovery with an automated manufacturing platform is introduced for the highly reproducible production of perovskite solar cells that demonstrate high power conversion and certified maximum power point tracking efficiencies.

Article 13 May 2026 **Mesoscale atomic engineering in a crystal lattice**

Electron-beam control enables deterministic placement of tens of thousands of atomic defects in three-dimensional crystals, creating stable, programmable artificial matter for scalable quantum and nanoscale technologies.

Article 29 Apr 2026 **Engineering tough blood clots with rapidly crosslinked red blood cells form within seconds, greatly improving toughness and adhesion while effectively stopping bleeding and enhancing tissue repair**

Shuaibing Jiang, Guanggu Bao ... Jianyu Li

Article 15 Apr 2026 **Carbonyl swapping converts cyclic ketones to saturated heterocycles**

A modular carbonyl replacement strategy converts common cyclic ketones to diverse saturated heterocycles, enabling efficient synthesis and late-stage diversification of bioactive molecules.

Article 20 May 2026 **High-fidelity identification of guest species in porous materials**

A reconstruction method based on Gaussian-apodized single-sideband electron ptychography removes artifacts to enable the high-fidelity identification of guest species in porous materials.

Article 13 May 2026 **Twenty-first century emergence of alpine fire in Central African mountains**

A twenty-first century fire is shown to be the first to have affected a high-elevation region in the central African mountains in the past 12,000 years, and previous burning at mid-elevations highlights the potential role of human in transforming African montane ecosystems.

Article 06 May 2026 **Forelock-induced slip transients set mainshock nucleation timing**

Analyses of laboratory experiments using a rate-and-state-based Griffin-like capture framework shows that forelocks can regulate mainshock nucleation timing with larger forelocks generating higher transient sliding velocities and triggering a more rapid transition to dynamic Coulomb friction.

Article 29 Apr 2026 **Racial diversity in higher education is associated with higher student salaries**

A longitudinal study shows that racial diversity in higher education is associated with higher student salaries at graduation, indicating that policies to increase or leverage racial diversity enhance human capital and benefit society.

Article 18 Mar 2026 **Contrasting thermophilization among forests, grasslands and alpine summits**

Analyses of large-scale, multi-taxa and long-term thermophilization patterns in forests, grasslands and alpine summits across Europe provide insight into shifts in community composition among different ecosystems in a warming world.

Article 08 Apr 2026 **Genetic predictors of GLP1 receptor agonist weight loss and side effects**

Identification of genetic variants associated with the efficacy and side effects of GLP1 medications could underpin development of precision medicine approaches in the treatment of obesity.

Article 29 Apr 2026 **GLP-1R-GPR-PPAR γ / δ multiple agonism corrects obesity and diabetes in mice**

GLP-1-GPR-Lanfibator, a single-molecule agonist of GLP-1R, GPR, PPAR γ , PPAR δ and PPAR δ , shows promising therapeutic efficacy against obesity-linked metabolic dysfunction in vitro and in mouse models via synergistic incretin and PPAR activity.

Article 15 Apr 2026 **EBV strain interacts with host HLA to drive nasopharyngeal carcinoma risk**

A genome-to-genome association study identifies host and viral risk factors that interact to drive nasopharyngeal carcinoma endemicity in southern China.

Article 08 Apr 2026 **Population-scale repeat expansions elucidate disease risk and ancestry**

Expanded brain volumes and increased NFL levels can be observed earlier than disease diagnosis in short-tandem-repeat-associated neurological diseases.

Article 01 Apr 2026 **DNA damage burden causes selective CXU2 neuron loss in neuroinflammation**

DNA damage burden and inadequate repair in CXU2 cortical layer 2/3 excitatory neurons contributes to selective vulnerability in neuroinflammatory injury.

Article 01 Apr 2026 **Expansion of outer cortical CXU2 neurons requires adaptations for DNA repair**

The transcription factor ATF4 is shown to regulate double-stranded DNA repair within vulnerable CXU2 upper-layer 2/3 cortical neurons, enabling their survival during development.

Article 25 Feb 2026 **Rewriting an E3 ligase enhances cold resilience and phosphate use in maize**

The E3 ubiquitin ligase HLA positively regulates cold tolerance and negatively regulates phosphate uptake in maize, and a genetically engineered variant of this enzyme leads to improved cold tolerance and enhanced phosphate uptake, improving yield in field trials.

Article 08 Apr 2026 **Asymmetric selection of a rice immune module and rebuild of disease resistance**

Scaling JAK2-mediated effect-triggered immunity with K221-mediated partner-triggered immunity in *Oryza sativa*/japonica reconstitutes the broad-spectrum resistance from wild rice.

Article 24 Feb 2026 **Dynamic antigen expression and cytotoxic T cell resistance in HIV reservoir clones**

Insights into the vulnerabilities of HIV-1 reservoir cells to potent, sustained cytotoxic T cell pressure are revealed.

Article 25 Feb 2026 **A membrane-bound nuclease directly cleaves phage DNA during genome injection**

A membrane-bound nuclease system called DNAP1 is shown to localize to the cell membrane, where it identifies and cleaves the DNA of infecting phage as it is injected into the bacterial cell.

Article 15 Apr 2026 **Linear RAG scanning mediates editing of fox variable region repertoires**

Scanning repertoires of the secondary lymphoid follicles are described and Cx12 deletion and/or displacement is implicated as a developmental switch converting the RAG-mediated mechanisms from two-loop-based diffusional primary IgG into one-loop-based linear scanning secondary mechanisms.

Article 25 Mar 2026 **Exposed phosphatidylinositol is an inhibitory molecule in T cell exhaustion**

Insights into the mechanism by which phosphatidylinositol functions as a non-classical inhibitory molecule during T cell exhaustion, and how phosphatidylinositol-targeting antibodies enhance T cell responses are explored.

Article 11 Mar 2026 **Facile induction of immune tolerance by an Interleukin-2-TGF β surrogate agonist**

A fusion protein designed to complex IL-2 and a histone-derived TGF β mimic activates IL-2 and TGF β signalling pathways in IL-2 receptor-expressing T cells and induces stable antigen-specific regulatory T cells in peripheral lymphoid organs.

Article 10 Dec 2025 **Somatic evolution following cancer treatment in normal tissue**

High-depth sequencing of non-cancerous tissue from patients with metastatic cancer reveals single-base mutational signatures of alcohol, smoking and cancer treatments, and uncovers how exogenous factors, including cancer therapies, affect somatic cell evolution.

Article 29 Apr 2026 **Evolutionary characterization of lung cancer metastasis**

DNA-sequencing data from primary tumours and paired metastatic participants in the TRACERx lung study and PEACE autopsy programme are used to analyse the metastatic diversity of advanced non-small cell lung cancer and the seeding patterns that underpin it.

Article 08 Apr 2026 **Clinical application of base editing for treating β -thalassaemia**

A clinical phase 1 trial of a single infusion of CS-101, CD34⁺ cells edited using a transformer base editor to reactivate fetal haemoglobin production, led to early and enduring transfusion independence in patients with β -thalassaemia.

Article 01 Mar 2026 **Catabolism of extracellular glutathione by γ -glutamyltransferase supports tumour growth and survival, and pharmacological targeting of these enzymes slows tumour growth**

Gene regulatory landscape dissected by single-cell four-omics sequencing

Combining single-cell parallel profiling of genome conformation, histone modifications, chromatin accessibility and gene expression reveals dynamics and intracellular spatial clustering of epigenome profiles, enabling sophisticated analysis of the regulatory landscape across cell types and tissues.

Article 02 Mar 2026 **BXD2-CX3 and DX2-CX3 complexes assemble and stabilize RAD51 foci**

DNA-complexes that contain various RAD51 partners involved in homologous recombination are revealed, highlighting the structural, functional and mechanistic importance of these complexes.

Article 25 Mar 2026 **Structural energetics of cold sensitivity**

Data from cryogenic electron microscopy combined with hydrogen-deuterium exchange mass spectrometry inform a mechanism for cold-evoked activation of the TRPM8 channel, providing a structural and energetic framework to explain cold sensitivity.

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Amendments & Corrections

Author Correction 01 May 2026 **Author Correction: Titration of RAS alters senescent state and influences tumour initiation**

Author Correction 06 May 2026 **Author Correction: Multidimensional profiling of heterogeneity in supratentorial ependymomas**

Author Correction 06 May 2026 **Author Correction: Gene regulatory landscape dissected by single-cell four-omics sequencing**

Author Correction 07 May 2026 **Author Correction: Proteasome-guided haem signalling axis contributes to T cell exhaustion**

Editorial Expression of Concern 05 May 2026 **Editorial Expression of Concern: Nociceptive neurons promote gastric tumour progression via a CGRP-RAMP1 axis**

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Nature Index

Nature Index 20 May 2026 **Chemistry**

Chemistry research is undergoing a period of transformation, driven by new technologies and mounting environmental pressures.

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