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SCIENCE ADVANCES

VOLUME 12 | ISSUE 21 | 22 MAY 2026

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Generalizability of an AI-based mammogram risk score (MRS) for breast cancer among diverse populations of women
BY SHU JIANG, DEBBIE L. BENNETT, PETER KRAFT, GRAHAM A. COLDITZ • 20 MAY 2026
Consistent associations and excellent calibration across race and ethnicity support a robust breast cancer risk prediction tool.
ABSTRACT

NEUROSCIENCE

Evolution of a central dopamine circuit underlies adaptation of a light-evoked sensorimotor response in the blind cavefish
BY ROBERT A. KOZOL, ALLI CAHANAN, BERNADETTE TOLENTINO, ALEX C. KEENE, JOHANNA E. KOWALKO, ERIK R. DUBOUE • 22 MAY 2026
Evolution shifts dopamine neuron responses in cavefish, reversing how light drives their behavior.
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The posteroventral part of the medial amygdala nucleus glutamatergic neurons encodes conspecifics' individual identity in rodents
BY LU ZHENG, LIBIAO PAN, XIAOXU FU, SHU WANG (王书), YUE WU, HANYANG XIAO, JIACHEN YANG, SIYU WANG (王思雨), LI YANG, XIAOTONG WU, […] HAO WANG
+3 authors • 22 MAY 2026
The MeApv is a neural hub that decodes social scents to recognize individuals.
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Schizophrenia risk gene ZNF804A controls ribosome localization and synaptogenesis in developing human neurons
BY LAURA SICHLINGER, MAXIMILIAN HAUSHERR, SARA SUBRINI, LUCIA DUTAN-POLIT, GEORGE CHENNELL, ROLAND HAUY, RUDILE MATULEVICIUTE, FATEMA NASSER, SOSONIA PARKAS, ROSEMARY A. BAMFORD, […] DEEPAK P. SRIVASTAVA +6 authors • 20 MAY 2026
Schizophrenia risk gene ZNF804A regulates local protein synthesis and synapse formation in developing human neurons.
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Stress disrupts hippocampal integration of overlapping events and memory inference in humans
BY KAI A. SCHOREN, NICOLE L. VARGA, HENDRIK HEINBOCKEL, ALISON R. PRESTON, BERND ROCZENDAAL, LARS SCHWABE • 22 MAY 2026
Stress disrupts inference by reducing hippocampal reactivation of related content and differentiating overlapping events.
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Perirhinal input to auditory cortex supports memory-guided sensory perception
BY LUCA GODENZINI, ANN-SOFIE BJERRE, YI HU, LUCY M. PALMER • 22 MAY 2026
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Computational neural dynamics of goal-directed visual attention in macaques
BY JIE ZHANG, NUTTIDA RUNGRATSAMEETAWEEMANA, SHUO WANG • 20 MAY 2026
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Paleo–salt water dominates coastal aquifer salinization: A continental-scale study in China
BY TIANYUAN ZHENG, BO GUO, QINPENG CHANG, GIGUO SUN, XIAOGANG CHEN, XILAI ZHENG, JICHUN WU, ZHONGHE ZHENG, SHAOBO GAO, CHUNMIAO ZHENG, […] ALBERTO GUADAGNINI +11 authors • 20 MAY 2026
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Improved closure of the global mean sea level budget from observational advances since 1960
BY HUAYI ZHENG, LIUING CHENG, SÖNKE DANGENDORF, BENOIT MEYSSIGNAC, ANNE BARNOUD, KEVIN E. TRENBERTH, JOHN T. FASULLO, JOHN ABRAHAM • 20 MAY 2026
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Tropical basin interactions reduce spring predictability barrier of ENSO in a deep learning model
BY LU ZHOU, RONG-HUA ZHANG • 20 MAY 2026
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Nereid as a regular satellite of Neptune
BY MATTHEW BELYAKOV, M. RYLEGH DAVIS, IAN WONG, KONSTANTIN BATYGIN, MICHAEL E. BROWN • 20 MAY 2026
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Distinct impacts of tropical North Atlantic warming flavors on cross-basin tropical cyclone activity
BY JIEWEI ZHAO, LUYAO BAI, RUIFEN ZHAN, YI LIU, WENJU CAI, YUQING WANG, JONG-SEONG KUG, SI-JIU MOON, XIANBIAO FENG, RALF TOUMI, […] HAN-CHING CHEN +2 authors • 20 MAY 2026
Two Atlantic warming patterns have distinct impacts: Coastal boosts Atlantic cyclones and warm pool reduces Pacific typhoons.
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Interpreting the dominant signature of inhomogeneous mixing resulting from dry-air entrainment in clouds
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Magnetogravitationally regulated streamer accretion onto a class 0 protostellar system
BY BO HUANG, JOSEP M. GIRART, IAN W. STEPHENS, TOM MEGEATH, VALENTIN J. M. LE GOUELLEC, NADIA M. MURILLO, PAULO CORTÉS, MANUEL FERNÁNDEZ-LÓPEZ, ZHI-YUN LI, LESLIE W. LOONEY, […] PHILIP C. MYERS +9 authors • 20 MAY 2026
Magnetic fields help funnel gas along the accretion streamer that feed the growth of a young protostellar system.
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Integrated perspective on ocean carbon cycle: Untangling facts, fluxes, and fictions
BY LAURE RESPLANDY, MARINA LÉVY, LAURENT BOPP • 20 MAY 2026
The ocean is a key carbon sink, yet fragmented views exaggerate ecosystem roles; marine life deserves protection beyond climate.
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Discovery of White Sea assemblage fossils from Laurentia
BY SCOTT D. EVANS, ERIK A. SPERLING, KIMBERLY V. LAU, JUSTIN V. STRAUSS • 20 MAY 2026
Fossils of early animal groups found in deeper-water settings millions of years earlier than previously understood.
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Unconventional water and hydrous mineral formation from dry minerals and H_2 fluids
BY ALBERTO VITALE BROVARONE, EMILIE THOMASSOT, SIMONE TUMIATI, GUILLAUME SIRON, GIULIA CONSUMA, THEODOR ALPERMANN, JAY J. AGUE, FABRIZIO NESTOLA, DONATO GIOVANNELLI, DIMITRI A. SVERJENSKY, LUCA TOFFOLO • 20 MAY 2026
Molecular hydrogen reacts with oxygen-bearing minerals to produce water and hydrous minerals in the crust and upper mantle.
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Floodplain slope organizes chute and neck meander cutoffs across rivers in the Amazon basin
BY IVAN LI, DOUGLAS A. EDMONDS, NORY M. KONSIDER, JOSÉ A. CONSTANTINE, YE JIAN, DYLAN T. SHOEMAKER, MD MAZHARUL ISLAM • 20 MAY 2026
A basin-scale census of channels wider than 90 m in the Amazon shows where and how rivers cut off their bends.
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Acute temperature effects on cilia beating increase coral deoxygenation
BY CESAR O. PACHERRES, MAX S. SHILLON, MADS BILBO, ANNUEL HANSEN, DOUGLAS P. BRUMLEY, MANUEL ARANDA, SOEREN AHMERKAMP, MICHAEL KÜHL • 20 MAY 2026
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Scalable and cost-efficient custom gene library assembly from oligopools
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Emergence of unconventional ferroelectric phase in ultrathin $Hf_{0.5}Zr_{0.5}O_2$ films
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Ultrathin hafnia films reveal an unexpected crystal structure, enabling robust electric polarization at atomic-scale thickness.
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Probing individual quantum emitters in bulk semiconductors via photonic nanojets
BY BEHROOZ SEMNANI, SAI SREESH VENUTURUMILLI, MOHAMMAD SOLTANI, PRATIK ADHIKARY, ABDOLREZA PASHARAVESH, NIKOLAY VIDENOV, PAUL ANDERSON, SUPRATIK SARKAR, VINEER RAJ RAJAGOPAL MUTHU, MICHAL BAJCSY • 20 MAY 2026
Photonic nanojets act as optical spotlights, isolating color centers and efficiently extracting their photons.
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Critical point–based wireless sensors enabling tiny perturbation detection
BY CHAO WU, KE YIN, ZHAOYU ZHANG, RUYI HUANG, YUANBEN HUANG, LANYUE DAN, YUXUAN LIU, PAN XIA, TIAN XIA, YUPAN CHEN, […] YOUFAN HU +3 authors • 22 MAY 2026
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Molecular interfaces drive vertical crystallization in Dion-Jacobson perovskite solar cells
BY RUI WANG, XIYUE DONG, YUTING MA, LIU YANG, JIANGNAN LI, YUPING GAO, YU CHEN, YA ZOU, WENJIAN FENG, ZIYANG HU, […] YONGSHENG LIU +1 authors • 22 MAY 2026
Molecular interfaces guide vertical crystal growth in quasi-2D perovskites, enabling high-efficiency and stable solar cells.
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Room-temperature spinor condensate in halide perovskite microcavity
BY TAKAYA INUKAI, RYOHEI SHIBANO, TAIKI OGURA, TOHKI INOUE, DAICHI SASADA, SHUN TAKAHASHI, KENICHI YAMASHITA • 22 MAY 2026
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Symmetry control by Raman-mode excitations via anharmonic couplings with terahertz field–induced infrared modes in ferroaxial $PbWO_4$
BY MASAKI YAMAMOTO, HIROKI SATO, RYOHEI IKEDA, TETSUSHI KUBO, TATSUYA MIYAMOTO, KENTA KIKUURA, TAKAYUKI NAGAI, TSUYOSHI KIMURA, HIROSHI OKAMOTO • 20 MAY 2026
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Ferromagnetic superconductivity with excitonic Cooper pairs: Application to Γ-valley twisted semiconductors
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BY YAN JIN, NITESH CHAUHAN, JOSHUA ZANG, BRIAN EDWARDS, PRATIK CHANDHARI, FIROOZ AFLATOUNI, SCOTT B. PAPP • 22 MAY 2026
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BY YINGCHAO YANG, YUNFEI RU, SHUANGJI XU, YINGZHI SUN, JIRUI HUANG, ZHENYE YAN, TIEHAN ZHANG, BAOZI ZUO, LEI JIANG, MINGJIE LIU • 22 MAY 2026
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Adaptive tunneling photodiodes enable visual recognition in high-contrast scenes
BY LIXIN LIU, FANGCHEN HU, JIAYUE HAN, JUN GOU, PENG ZOU, HANDI YU, BIBYU HE, LEI XIAO, YUNLU LIANG, WENJIE DENG, […] JUN WANG +7 authors • 20 MAY 2026
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Discovery of spontaneous mesoscopic strain waves in nematic domains using dark-field x-ray microscopy
BY KAIMI K. VAN, WILLIAM J. KEEBE, ELLIOT KISIEL, MATTHEW J. KROGSTAD, ANISHA G. SINGH, RAFAEL M. FERNANDES, ZAHIR ISLAM, IAN R. FISHER • 20 MAY 2026
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A dual membrane-adsorption evaporator for solar-powered lithium extraction from complex brines
BY AYDIN F. ESKAFI, WENLI JIANG, JEFFREY J. URBAN, BAOXIA MI • 20 MAY 2026
The integration of interfacial solar-evaporation with membrane-adsorption enables selective lithium recovery from complex brines.
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Continuous monitoring of blood–interstitial fluid intercompartmental molecular kinetics in freely moving animals
BY WEIJIA CHEN, ZITAO HU, JEAN WON KWAK, DAVID ZAKHARIAN, JENNY JI, SU LIU, DEEPAK KAPOOR, CAZANNE LYONS, MAX YATES, STEVEN YEE, […] HYUNSOO TOM SOH +2 authors • 20 MAY 2026
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Spin glass in quantum paraelectric $KTaO_3$: Supercritical CO_2–induced monoclinic phase
BY YONING LIANG, SUN XU • 22 MAY 2026
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Bioinspired ionic thermoreceptors with anisotropic architecture for thermotactile perception in robots
BY XIXUN CUI, YUN ZENG, PEI LIU, YIXIN ZHANG, LINFENG WANG, HUAYU XIE, SUE LONG, HUA JIANG, WENDONG YANG, ZUOXIAN XIAN, […] JIANLIANG SUAN +1 authors • 20 MAY 2026
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BY XINGZHOU HE, XINLIN XUE, JIE XIE, LIANGYING WANG, ZHENDONG YU, MENG LI, XIAOFEI QIU, SERGEI BORISOVICH, HONG YANG, YANG LUO, HONG ZHANG • 22 MAY 2026
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BY DI ZHANG, GULUNG ZHU, PANGZHI MOU, XINYI WANG, ZHUAN ZHU, WEI FU, WANYI YANG, XIN LIU, JINXUANG ZHU, GUO WANG, […] JIANGGUI QIAN +4 authors • 20 MAY 2026
Magnetic nanorobots enable safe and versatile systemic-to-local thrombolysis.
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BY HENG NI, FENG ZHOU, GUOLONG ZHU, LEV BERKASHEV, SHEN XI, XUN WANG, RUOJIE SHA, NADRIAN C. SEEMAN, PAUL M. CHAIKIN • 20 MAY 2026
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On-demand linkage cleavage in two-dimensional conjugated metal-organic frameworks for closed-loop recyclable electronics
BY QUANQUAN GUO, SHAOHONG XIE, MINGRONG YOU, CHENGHAN WANG, LEIZE ZHENG, WEI HUANG, CHANGJUANG YI, JIPING BAU, HAO XU, JIANJUN ZHANG, […] XINLIANG FENG +9 authors • 22 MAY 2026
Closed-loop recycling of 2D conjugated metal-organic frameworks is achieved via mechanochemistry-enabled on-demand degradation.
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Ionic liquid–regulated interfacial charge transport and asymmetric device architecture for high-performance electrochemiluminescence
BY WEILIN LIU, DELONG LI, RIEI RU THA, JIEXIN LI, HANSONG LI, SUCHAN LI, SHERMIN CHONG LU THA, JIAJIA XIAO, KRISTEN THIBBE KANG, YUN LIU, […] YU JUN TAN +2 authors • 20 MAY 2026
Ionic liquid regulates interfacial charge transport to unlock ultrabright, stable semiluminescent devices.
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High-entropy 1D halide perovskite piezoelectrics found by megalibrary synthesis and rapid nonlinear optical screening
BY JUN LI, JARED BRIGHTS, TONG CUI, VICHEN LI, OLIVER J. S. L. CHEVALIER, YI XIE, YUHANG HANG, CHAD A. MIRKIN • 22 MAY 2026
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BY YICHUN DING, YAN ZHENG, YONGLI GUAN, XIAO CHANG, JIAN XIANG, JIANHANG LIANG, ZIQIAN ZHU, MUZHE CHEN, HANG HU, SHI ZHANG, […] ZIJIAN ZHENG +6 authors • 22 MAY 2026
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Bandgap-enabled ultrasound tissue marking by a biodegradable metastructured hydrogel implant
BY ZHANGDI PENG, LILIYE ZHI, BO GAO, NA LI, TONGYU HUANG, YUCHEN ZHOU, MINGHUAN ZHOU, YIBO HUANG, JIE CHEN, WEI WANG, […] JIANFENG ZANG +3 authors • 22 MAY 2026
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Long-cycling organic flow batteries enabled by electronic-spatial synergistic modulation
BY TIANHUA WANG, KAI YANG, CHENLONG GAO, TIANYU HUANG, ZHITAO ZHAO, WEIXIU GHAO, ZHUO CHEN, MENGHAO YANG, WANLIJIN LIU, YU SHMI, YU DONG • 20 MAY 2026
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Mesoscale hydrogen-bond network engineering controls quantum-coherent proton transport to suppress aluminum corrosion
BY HAO ZHANG, ZHIHAO LI, SHAOQIAN LI, DIBO CHEN, JIEBIN ZHENG, ZHENGHAO XIANG, HAO ZHANG, HUI YANG, ZHENGHONG YANG, ZHONGLIANG TIAN • 20 MAY 2026
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Revitalizing dendritic lithium with atomic modulator-decorated suspension electrolyte for durable lithium metal batteries
BY YUAN LI, JIEXIN CHEN, HANGYUE ZHANG, ZHENGXIN LI, YUZONG WAN, HUNOU MANGKOUN LIU, YUANHUI LI, RANGJUN XU, ZHIHUI LIU, RANGJI LIU, […] MAXIMILIAN FICHTNER +4 authors • 22 MAY 2026
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BIOMEDICINE AND LIFE SCIENCES

Autism-like phenotypes and increased NMDAR2D expression in mice with KDM5B histone lysine demethylase deficiency
BY LETICIA PÉREZ-SISQUÉS, SHAIL U. BHATT, ANGELA CARUSO, JOSEPHINE L. ROBB, ALEX P. A. DONOVAN, ROSEMARY BAMFORD, ALEJO TORRES-CANO, SHOSHANA SPRING, ELEANOR HENDY, TALIA E. GILEADI, […] M. ALBERT BASSON +14 authors • 20 MAY 2026
Inhibitors targeting NMDA receptors may represent viable therapies for KDM5B neurodevelopmental disorders.
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P2X7R of synovial fibroblasts is a potential therapeutic target associated with refractory rheumatoid arthritis
BY PEISHI RAO, SHANGHAO JIN, SHIBAI XIAO, YINCHAO MA, JING LI, YUHUA LIAO, ZIYE WANG, YUNSI TANG, XUANLIN CAI, XINGYUE ZENG, […] ZHANGUO LI +14 authors • 22 MAY 2026
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Tumor-targeted bispecific antibodies effectively inhibit oncogenic pathways while minimizing toxicity
BY YVONNE T. KOCHONSAK, WEI-CHANG LIANG, JOYCE CHAN, DAVID KAN, THAO NGUYEN, KAREN RUIZ, YEE-SEIR KEE, WEN-TING K. TSAI, HONGKANG XI, MARINA MOSKALENKO, […] JAMES T. KOERBER +18 authors • 22 MAY 2026
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Intestinal obstruction impairs feeding and promotes sleep in *Drosophila melanogaster*
BY CINDY REINGER, LAURA BLACKIE, ALEXANDRA M. MEDEIROS, HUGO GILLET, CAROLIN KRING, PEDRO GASPAR, DAFNI HADJIECONOMOU, MICHÈLE BICKMANN, MARKUS AFFOLTER, IRENE MIGUEL-ALIAGA, […] ANESSA KEMPF +1 authors • 20 MAY 2026
Intestinal obstruction disrupts feeding and promotes sleep in freshly eclosed flies.
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The immunoproteome and multimorbidity: A Mendelian randomization study
BY NIKITA HUKERIKAR, AROON D. HINGORANI, SANDESH CHOPADE, ARJEN J. CUPIDO, FOLKERT W. ASSELBERGS, CHRIS FINAN, A. FLORIAAN SCHMIDT • 20 MAY 2026
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Shifting IRES versus Cap-initiated translation during homeostatic stem cell differentiation and stress
BY MICHAEL C. MAZZOLA, TING ZHAO, ANNA HEIM, TRINE A. KRISTIANSEN, KARIN GUSTAFSSON, LAI PING WONG, EMILY SCOTT-SOLOMON, MARISSA S. PAHLBERG, CHRISTINA MAYERHOFER, ERNST MAYERHOFER, […] DAVID T. SCADDEN +17 authors • 20 MAY 2026
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Hypoxia-responsive interaction between P-TEFb, BHLHE40, and Tim8-Tim13 regulates hypoxic gene transcription
BY SHIMAA HASSAN ABDELAZIZ SOLIMAN, SIMONE DE FABRITIIS, MARTA MAVANZZIG, LAWRENCE AUSTIN LIN, MADHURIMA DAS, SARAH GOLD, GRANT DAVID ANDERSEN, RAM P. CHAKRABARTY, NAVDEEP S. CHANDEL, ALI SHILATIFARD • 20 MAY 2026
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Multiplexed single-cell transcriptomics reveals diverse phenotypic outcomes for pathogenic SHP2 variants
BY ANNE E. VAN VLIMMEREN, ROSS M. GIGLIO, ZIYUAN JIANG, WANHEE LEE, JOSÉ L. MCFALINE-FIGUEROA, NEEL H. SHAH • 22 MAY 2026
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Identifying menstrual metrics as personal health markers: Age trends and individual footprints in temperature across 5674 cycles
BY MARIE SOMBERT-LABEDAN, ALAN TAITZ, ORSOLYA KISS, FIONA C. BAKER • 20 MAY 2026
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Unlocking translational control of specialized metabolism in plants through 5′UTR structure
BY MAKOU LIN, DOOSAN SHIN, JIE HAO, MASOOD JAN, MINKYU PARK, VERONICA PÉREZ, BENJAMIN BREWER, YING WANG, JEONGMIN KIM • 22 MAY 2026
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Deciphering the ancestral mechanisms of neural regeneration through single-cell analyses of jellyfish rhopalium repair
BY YONGHUE LI, PANSHAN WANG, TINGTING SUN, XIAORAN MA, ZHANGYI YU, ZIYUE XU, WENHUI WANG, YISIANI XING, SAIJUN PENG, LEI WANG, […] ZHIJUN DONG +1 authors • 20 MAY 2026
Jellyfish regenerate centralized nervous structures, revealing ancestral mechanisms that underlie nervous system restoration.
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Noncanonical $PI(4,5)P_2$ coordinates lysosome positioning through cholesterol trafficking
BY RYAN M. LOUGHRAN, GURPREET K. ARORA, JIACHEN SUN, ALICIA LLORENTE, SOPHIA CRABTREE, CYNTHIA Y. ZHANG, KYANH LE, BEN-LI HUYNH, WONHWA CHO, BROOKE M. EMERLING • 22 MAY 2026
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53BP1 orchestrates sequence feature of RAG targets to balance DNA repair outcomes during V(D)J recombination
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Collaboration of DNA damage repair factors and intrinsic features of damage DNA shapes the DNA repair outcomes.
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Lotus japonicus VIH2 is an inositol pyrophosphate synthase that regulates arbuscular mycorrhiza
BY KIRAN RAJ, VERENA GAUGLER, MENGSI LU, MAREN SCHÄDEL, PHILIPP GAUGLER, CHARLOTTE M. M. GROTHAUS, ULRIKE A. JOCHIMSEN, ATHANASIOS MAKRIS, SIMON M. BARTSCH, ANNIK M. FRENTZEN, […] MARTINA K. RIED-LASI +5 authors • 22 MAY 2026
Inositol pyrophosphate messengers regulate arbuscular mycorrhizal symbiosis and phosphate uptake in *Lotus japonicus*.
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Visualizing the mechanism of quinol oxidation and inhibition of a *bd*-type oxidase using cryo-EM
BY TIJN T. VAN DER VELDEN, KANWAL KAYASTHA, MARIE FELSER, STEFFEN BRÜNLE, LARS J. C. JEUKEN • 20 MAY 2026
The Q-loop of *E. coli* cytochrome *bd* dynamically orders upon quinol binding and changes conformation when inhibited by Aurachin D.
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3D imaging of an entire pancreas shows inverse proportions of extra-islet versus islet-associated β cells in late-onset type 1 diabetes
BY JOAKIM LEHRSTRAND, MAX HAHN, BJÖRN MÖREN, WAYNE I. L. DAVIES, ULLE KORSGREN, TOMAS ALANENTALO, ULF AHLGREN • 22 MAY 2026
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Multiregional profiling reveals *THBS1-SPP1* monocyte-macrophage axis drives immunosuppression and outcome in colorectal liver metastases
BY DAIA BELLOMO, JAYDEN SITTENS, CHRISTOPHER BRUNNING, MASSIMILIANO ABUGULA, ROBERT P. JONES, MICHAEL C. SCHMID, AINHOA MIELGO • 22 MAY 2026
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Single-nucleotide variant profiling in liquid biopsy with RECO-Cas
BY CHONG GUO, SHAO ZHANG, RAMACHANDRA YERRAMSETTI, JOSHUA ZHANG, XIN GUAN, RUI YANG, CHENGYU HOU, MINLIE PEI, KURT T. SCHALPER, XINGYE LIU, […] CHANGCHUN LIU +5 authors • 22 MAY 2026
RECO-Cas integrates Argonaute cleavage with Cas12a amplification for profiling mutant cfDNA.
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Erythrocyte patch for enhanced B cell depletion therapy
BY JUNJI LIU, FENGJU WANG, LIAN LI • 20 MAY 2026
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ABSTRACT

Stepwise construction of the path to doubled haploid breeding in sorghum
BY YI GUI, YAO SUN, ZHIXING CHENG, YALI LI, XE LI, XIAOHUI ZHANG, TAO YIN, SUHUA YANG, GUIYING LI, MINXUAN LIU, […] CHUANYIN WU +1 authors • 22 MAY 2026
Gene-edited sorghum inducers enable efficient production of doubled haploid plants, advancing crop improvement.
ABSTRACT

Serine protease HtrA promotes *Campylobacter jejuni* intestinal colonization through degrading antimicrobial peptide LL-37
BY YUQIAN LI, MENGJIE ZHANG, ZHENZHEN XU, YUNJIU LI, SU BAIA, XIANYHE TANG, XINAN JAO, DZAN GUNDOGDU, JINLIN HUANG • 20 MAY 2026
HtrA enables *C. jejuni* to evade LL-37 killing by cleaving it, revealing a therapeutic target and a noncleavable LL-37 analog.
ABSTRACT

COST1 stimulates RHD3 GTPase activity to maintain ER morphology and plant growth in *Arabidopsis*
BY JIAOLANG WANG, JIAN JIANG, JIE REN, YUNXI ZHAO, YU ZHANG, DEYU FENG, YANJIE LI, QIAN ZHANG, YUE NIU, XIN ZHANG, […] YAN BAO +7 authors • 20 MAY 2026
A plant-specific RHD3-COST1 module controls ER morphology.
ABSTRACT

Developmental candidate GHP-88310/EIDD-3608 with high tolerability and oral efficacy in measles and respiratory paramyxovirus models
BY CAROLIN M. LIEBER, JOSEF D. WOLF, MUGUNTHAN GOVINDARAJAN, JOSEPH LIEBER, YOON, ZACHARY M. STICHER, CLAIRE E. RUCKEL, ALEXANDER I. LEACH, LAUREN A. HARRISON, DARIA VYSHENSKA, AMALIA A. CRUZ, […] RICHARD K. PLEMPER +6 authors • 20 MAY 2026
An orally available polymerase inhibitor shows broad-spectrum efficacy and improved tolerability against orthoparamyxoviruses.
ABSTRACT

Endothelial soluble APP/APLP2 promote heart repair through KIT-mediated angiogenesis
BY HARUYA KAWASE, SHANMIN LIU, SABRINA KURZ, VERENA BERGELSDORFF, REMY BONNAVION, YOUNG-JUNE JIN, KENNETH ANTHONY ROQUID, HAAGLIN CHO, GUOZHENG LIANG, MARIJA BARAČEVIĆ, […] STEFAN OFFERMANNS +9 authors • 22 MAY 2026
APPs and APLP2s are positive allosteric modulators of KIT and thereby promote neovascularization after myocardial infarction.
ABSTRACT

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THIS WEEK'S PODCAST

29 MAY 2026 BY SARAH CRESPI, VALERIE THOMPSON, SARA REARDON, ANGELA SAINI
Disembodied human brains, immortal bits of sea cucumber, and fame in Galileo's time
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