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Design and preclinical feasibility of a pediatric heart valve stent that spontaneously adapts to growth via a spring mechanism

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SOCIAL AND INTERDISCIPLINARY SCIENCES AND PUBLIC HEALTH

Assessing the health risks of rice cadmium content standards in China

BY XIAOYUAN GAO, SHENG ZHANG, XUEMEI ZHAO, XIANGYU ZHAO, JIAYUE ZHAO, WENYE ZHANG, LEI ZHANG, XUEMEI LI, ZHIHUAN... | 13 FEB 2026

The current rice cadmium limit is insufficient to safeguard human health, warranting stricter thresholds.

ABSTRACT +

Multiple southward migrations of Neolithic Chinese farmers into Southeast Asia revealed from large-scale Y chromosome sequences

BY HUI ZHENG, YI PENG, LI LIU, LIN ZHANG, YUANYUAN ZHU, ZHE ZHANG, CHENGLAI SUN, XIAOMIN ZHANG, ... | 13 FEB 2026 | +8 authors

Large-scale East Asian Y chromosome reveal multiple waves of Neolithic farmer contributions to Southeast Asian patrilineages.

ABSTRACT +

The oldest in situ Homo erectus crania in eastern Asia: The Yunxian site dates to ~1.77 Ma

BY ZHAOYU ZHU, ROBIN DENNELL, RUKANG WU, HUI TANG, WENJING HUANG, ZHIJIE TAN, ... | 09 FEB 2026

Synchrotron $^{40}Ar/^{39}Ar$ burial dates at 1.77 Ma make Yunxian the oldest in situ discovered Homo erectus fossil site in eastern Asia.

ABSTRACT +

NEUROSCIENCE

The marginal-majority effect: When social influence produces lock-in

BY ALEXANDRA BOUTYRINA, MATTHIAS MAST, ELIA SAMSON, ARNAUD TOMASINA | 18 FEB 2026

Popularity trumps quality when people are influenced by popularity ranks rather than counts.

ABSTRACT +

Human microglia in brain assembloids display region-specific diversity and respond to hypersensitive neurons carrying SCN2A mutation

BY JUNHYUN NA, SEONGJU LEE, HANBIN KWON, HYE JIN PARK, SEUNGHEE KIM, ... | 18 FEB 2026 | +7 authors

Organoid assemblies and single-cell sequencing reveal microglia that respond to hyperactive epilepsy circuit activity.

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Selective attention to auditory and visual modalities converges onto noncholinergic basal forebrain neurons

BY M. M. SHEN, ... | 18 FEB 2026

Decoding selective attentional modality biases and differential in parallel and sustained firing in basal forebrain neurons.

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Redox therapy for neuropsychiatric disorders: Molecular mechanisms and biomarker development

BY ALEXEI M. KRASNOV, ANNA A. PETRI, VERONIKA ZAIKINA-IVANOVA, OLEG V. ... | 18 FEB 2026

Redox therapy may restore brain energy deficits, underscoring the need for in vivo biomarkers to guide personalized treatments.

ABSTRACT +

EARTH, ENVIRONMENTAL, ECOLOGICAL, AND SPACE SCIENCES

Tophra seismites—Understanding seismic hazard of hidden faults by analyzing liquefied tephra layers in lakes

BY ALESSIO PISTOLESI, ANDREA ORSUCCI, MARCELLO TADDEUCCI, ELISA ZANCHETTA, ANNALISA LOMBARDI, ... | 18 FEB 2026

CT images of lacustrine volcanic soft layers 7.5 cm thick provide a key liquefaction database for seismic hazard assessments.

ABSTRACT +

Degradation of fish food webs in the Anthropocene

BY JAMES A. SANCLEMENTE, MARIA FERNANDEZ, CAITLIN KROEKER, JULIANA MARRERO-RIBAS, PABLO E. TENDERO, EMILIA DIAZ, ELENA BENAVIDES, ... | 18 FEB 2026

The decrease in body size driven by the collective response to wildlife allowing fish food web topology alterations.

ABSTRACT +

Evolving synchronization of the Gulf Stream and Kuroshio-Oyashio Extension in a changing climate

BY YUSHAN SHI, SHUANGLIN LI, THOMAS L. DELWORTH, GUOQING LAI, XIANG CHEN, WENTAO LUO, ... | 18 FEB 2026

Transient SST sensitivities across the North Pacific and North Atlantic must be linked to Arctic sea ice loss and climate change.

ABSTRACT +

Increasing synchronicity of global extreme fire weather

BY YUTIAN QIN, JIANYU LIANG, KAITLIN KEIL, ALEXIS BERKELHAMER, ANNA M. MICHALAK, ... | 18 FEB 2026

Increasing synchronicity of global extreme fire weather constrains fire suppression coordination and exacerbates air pollution.

ABSTRACT +

Propagation of the Madden-Julian oscillation as a deterministic chaotic phenomenon

BY XIANXI TAO, TIANYU WANG, WEIYU YANG, HUIJIE ZHANG | 18 FEB 2026

MJO propagation is not described by linear models but deterministically chaotic behavior with the regime bifurcation.

ABSTRACT +

Machine learning–based paleohydrometric reconstructions using archaeal lipid biomarkers

BY JIANMING BAI, SUQIANXING, CHANG ZHAO | 18 FEB 2026

Lipid biomarkers to reveal sediment-wind-action-surface-shape and moisture shifts.

ABSTRACT +

Optimal choice of proxy for cloud condensation nuclei reduces uncertainty in aerosol-cloud–climate forcing

BY DUSAN GRAMOTNEV, ANDREW GETTELMAN, ANDREW GETTELMAN, JOSEPH HARDIN, ... | 18 FEB 2026

Using optimal proxies for cloud condensation nuclei reduces the uncertainty in aerosol cloud forcing estimates by one third.

ABSTRACT +

PHYSICAL AND MATERIALS SCIENCES

Direct cyanation of aromatic rings using dinitrogen and methane promoted by nonthermal plasma

BY YUNHAO ZHANG, ZHENG LIANG, LEI LI, WEILIU LIU, WENFENG JIN, JIE LIU, YUANHUA LI, XIBIN BAO, PEN CHEN, ... | 13 FEB 2026 | 15 authors

A nonthermal plasma method enables direct synthesis of aromatic nitriles from nitrogen and methane.

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Electroluminescent perovskite QD–based neural networks for energy-efficient and accelerate multitasking learning

BY LEI ZHANG, ... | 18 FEB 2026

Dual-stripe perovskite complex-enable energy-efficient multitasking learning through parallel electrical and optical signals.

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Precise modulation of MOF pore structures via functional group dimensions and spatial configuration for membrane separation

BY ZHEN-ZHEN ZHANG, YAN-LI ZHANG, YUAN-YUAN LIANG, XIAOYU HE, JIAN-RONG LI, ... | 18 FEB 2026

Ligand functionalization can achieve pore structure and aperture regulation via functional group-tight modulation for alkane separation.

ABSTRACT +

Efficient AgInGaS-based QLEDs and full-color displays via uniform silver vacancy distribution

BY YUANHUA LI, YUNHAO ZHANG, WEILIU LIU, WENFENG JIN, YUANHUA LI, JIE LIU, ... | 13 FEB 2026 | 10 authors

Multistep temperature control enables uniform V_{Ag} distribution in AIGS QDs for efficient QLEDs and full-color displays.

ABSTRACT +

Inertia-driven amphibious robot with asymmetric microsaltatory fin arrays

BY HANG YANG, HANGYU WANG, WENLE ZHANG, ZHENGYUAN ZHANG, ZHENGLONG ZHOU, ... | 18 FEB 2026

A compact robot uses an internal inertial actuator to crawl, jump, and perform steerable swimming.

ABSTRACT +

Repurposing Si CMOS nonlinearities for stochastic and analog image processing

BY WEIJIE LIU, ZHIHAO XU, ZHENGHAO LIU, YUHAN DAN, CHUANGTIAN CAO, ZHANGCHAI, ZHANGYUAN, ... | 18 FEB 2026 | 11 authors

A standard CMOS transistor functions bistable noise and nonlinearity to perform stochastic and analog image processing.

ABSTRACT +

Electrochemical conversion of oxalic acid to glycolic acid via oxygen vacancy–mediated tandem catalysis

BY YUANHUA LI, YUNHAO ZHANG, WEILIU LIU, WENFENG JIN, YUANHUA LI, JIE LIU, ... | 18 FEB 2026

A dual-site tandem catalytic mechanism promotes the electrocatalytic hydrogenation of oxalic acid to glycolic acid.

ABSTRACT +

Metal-organic framework/graphene nanoribbon/polyimide mixed-matrix membranes for high-temperature H_2/N_2 separation

BY ELIZA RUSSELL, SHUNQING ZHANG, ZHENGBANG QIAN, YUANZHE LI, YUNHAO ZHANG, ... | 18 FEB 2026

A thermally stable polymeric matrix enables high-temperature membrane separation with industrial relevance.

ABSTRACT +

"Direct" measurement of delocalized molecular excitonic wave functions through excitonic and vibronic photon imaging

BY YAN LIU, ZHEN ZHAO, LIANG CHEN, YUAN JIN, QIANGSONG, PHOTOSYNTHESIS, ZHEN ZHAO, YAN, YUCHENG, YUCHENG, ... | 18 FEB 2026

Subwavelength photon imaging enables real-space reconstruction of amplitude and phase of delocalized excitonic wave.

ABSTRACT +

Bending capacitive energy storage in nitazer ferroelectrics through polymorphic phase engineering

BY YUNG-HSIANG HSU-HSIN, YUANLIU, WENYU, ZHU-YUNHAO, ZHENGBANG, WENYU, ZHENGBANG | 18 FEB 2026

Polymorphic phase engineering to release ferroelectric effect thus benefits the dielectric energy storage.

ABSTRACT +

Morphology-adaptive Au-Ag nanowire electronics for integrated FlexoSERS and bioelectrical sensing

BY HANG ZHANG, YUHAN ZHANG-HANG ZHANG, ZHANG-YUAN ZHANG, YUAN ZHANG, ZHANG-YUAN ZHANG, ZHANG-YUAN ZHANG, YUAN ZHANG, ... | 18 FEB 2026 | +8 authors

A vertically aligned Au-Ag nanowire array as a morphology-adaptive, dual-functional conformal sensing platform.

ABSTRACT +

Conformation-programmed DNA computing

BY XIAOJIE ZHOU, LI ZHANG, ZHAO ZHANG, ZHAO ZHANG, ZHAO ZHANG, ZHAO ZHANG | 18 FEB 2026

This DNA computing model integrates sequence programmability with allostery, establishing a conformation-based computing paradigm.

ABSTRACT +

BIOMEDICINE AND LIFE SCIENCES

Hemizygous loss of helicases promotes genomic instability and cancer development

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

Losing one copy of helicase genes reduces genome protection, leading to DNA damage and higher risk of cancer development.

ABSTRACT +

Single-cell epigenetic profiling reveals a tumor-intrinsic interferon response program in ccRCC tied to poor prognosis and BAP1 loss

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026 | 15 authors

Single-cell chromatin profiling reveals how BAP1 loss drives interferon signaling and aggressiveness in ccRCC.

ABSTRACT +

Design and preclinical feasibility of a pediatric heart valve stent that spontaneously adapts to growth via a spring mechanism

BY GIOELE FERRARI, MARIANO GUCCIARDO, ... | 13 MAR 2026

A pediatric heart valve stent that spontaneously "grows" could reduce surgeries and improve procedures for children.

ABSTRACT +

READING NOW

Engineering surgery-free prosthetic heart valve growth

BY JONATHAN M. TOBIN ET AL. | 04 FEB 2026

Evidence that extra copies of chromosome 1q play a role in the early phases of pancreatic neoplasia

BY ANNA ZHANG, ANNA ZHANG, ANNA ZHANG, ANNA ZHANG, ANNA ZHANG, ANNA ZHANG, ANNA ZHANG, ... | 18 FEB 2026

Copy-number increases of the 1 chromosome arm on 1q were identified as candidate oncogenes in pancreatic neoplasia.

ABSTRACT +

Disrupted energy metabolism is associated with retinal ganglion cell degeneration in autosomal dominant optic atrophy

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026 | 10 authors

Optic nerve disrupted mitochondrial energy metabolism and redox homeostasis, triggering RGC degeneration in ADOA.

ABSTRACT +

Infiltrational Parvimonas micra promotes esophageal squamous cell carcinoma via p-cresol–induced T_{reg} differentiation

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 11 FEB 2026 | 11 authors

Intratumoral Parvimonas micra promotes esophageal cancer via p-cresol–mediated T_{reg} differentiation and immunosuppression.

ABSTRACT +

3D reconstruction of human liver tissue at cellular resolution

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

3D human liver reconstructions reveal architectural hallmarks of cirrhosis and offer translational insights for tissue engineering.

ABSTRACT +

Tuning of the RBR1-E3ligase transcriptional module by the F-box protein FBL17

BY ELVIS FERNANDEZ, ALEJANDRO R. GAVIRIA, ANGELINA MENDOZA, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026 | 10 authors

FBL17 regulates the RBR1–E3 SIP transcriptional module to prevent aberrant activation of the JA/Ile-dependent response to wounding.

ABSTRACT +

Structures of the 26S proteasome in complex with the Hsp70 co-chaperone Bag1 reveal a mechanism for direct substrate transfer

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

Bag1 connects the chaperone and proteasome systems for delivering the ATPase step to promote direct degradation of Hsp70 clients.

ABSTRACT +

Complement C3 recognition by C3 convertases

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

Cryo-EM structures reveal how tumors complement pathways and how, activating and basolytic subcellular-cap and therapeutic targets.

ABSTRACT +

The vault particle is enclosed by a C13-symmetric cap with a positively charged exterior

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

Cryo-EM analysis of the cap of the vault particle reveals an unexpected C13-symmetric architecture.

ABSTRACT +

Engineering controlled-release steroid therapeutics: fabrication and molecular design of self-assembled microparticles

BY ALEXANDRA JACOBS, MICHAEL J. PALMER, MARIA MARIA, JOHANNES MARIA, JOHANNES MARIA, JOHANNES MARIA, JOHANNES MARIA, ... | 18 FEB 2026

Steroid microparticle self-assembly is leveraged through modifications to fabrication process parameters and steroid chemistry.

ABSTRACT +

12R-HETE acts as an endogenous ligand for Nur77 in the intestines and regulates NAphS$^+$ ILC3 development

BY HANNAH ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

A gut lipid activates Nur77 to guide early-life ILC3 development and protect postnatal from T. Trichuriasis infection.

ABSTRACT +

Aneuploidy of chromosome 8 promotes the mesenchymal lineage during cell fate transitions

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

A specific chromosome number change frequently observed in childhood sarcomas reshapes pathways to aneuploidy-driven cells.

ABSTRACT +

KRAS^{G12D}/HLA-A*02:01–targeted chimeric antigen receptor T cells exhibit potent preclinical activity against solid tumors

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026 | 17 authors

CAR T cells targeting KRAS^{G12D}/HLA-A*02:01 eliminate solid tumors in preclinical models, offering a promising immunotype therapy.

ABSTRACT +

cPLA$_2$α targeting to exosomes connects nuclear deformation to LTB$_4$ signaling during neutrophil chemotaxis

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

Nuclear squeezing triggers lipid signals that help neutrophils step on course through tight spaces.

ABSTRACT +

BASH12: BRCC3 complex regulates FANCM-mediated R-loop resolution to safeguard genome integrity

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

BASH12 pairing CO2 complex distinctly participates in R-loop resolution and fork maintenance to safeguard the replicating genome.

ABSTRACT +

miRNA gene mutations commonly disrupt the proper functioning of miRNA genes

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

Most mutations located in miRNA genes seriously affect their proper functioning.

ABSTRACT +

The mechanical properties of Arabidopsis thaliana roots adapt dynamically during development and to stress

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

Brillouin microscopy reveals to the dynamics of mechanical properties during plant development and response to stress.

ABSTRACT +

Cl$^{\delta-}$···S halogen bonds drive molecular recognition of ergothioneine by the microbial transporter

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

Alkyl-Cl/sp3 halogen bonding interactions enable selective transport of the antioxidant ergothioneine into bacterial cells.

ABSTRACT +

Glomerular rusting of tumor-derived extracellular vesicles substantiates urinary biopsy

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

Tumor-derived extracellular vesicles cross the kidney filter into urine via glomerular transcytosis, enabling urinary diagnostics.

ABSTRACT +

Systematic analysis of functional genetic and epigenetic variants in colorectal cancer

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 11 FEB 2026 | 11 authors

Integrative screening pinpoints genetic and epigenetic drivers of colorectal cancer progression and diagnosis.

ABSTRACT +

Structure and dynamics of a multidomain nitric oxide synthase regulated by a CO domain

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

nNOS is a highly dynamic multidomain oxidoreductase that harnesses a Ca^{2+} -sensitive CO domain to modulate activity.

ABSTRACT +

R-loop processing via RECQ4-RNaseH1–mediated exo- and exo-cleavage coupling mode prevents genome instability and antitumor immunity

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

Decoupling RECQ4-RNaseH1–mediated R-loop processing triggers genome instability and lymphoma antitumor immune responses.

ABSTRACT +

Covalent capture and genetic code expansion enables chemoproteomic profiling and functional characterization of lysine acetoacetylation

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

A chemical-biology toolkit combining chemoproteomics and genetic code expansion deciphers the function of lysine acetoacetylation.

ABSTRACT +

Transmembrane prolyltrio mediate basal complex assembly and individual daughter cell formation in malaria parasites

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

Cell division and basal complex disassembly are coupled by transmembrane prolyltrio proteins in malaria parasites.

ABSTRACT +

The actin cytoskeleton is required to maintain plant cell division orientation against cellular geometry

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 11 FEB 2026 | 11 authors

Actin guides plant cell division, shaping tissues to ease that skirts geometric constraints.

ABSTRACT +

Taurine-driven chemotaxis and metamorphosis in ascidian tadpole larvae

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

Targeting taurine chemosensation to master animals provides an antifouling strategy.

ABSTRACT +

Activation of the YAP1/pSTAT3/NRP1 axis in perifenestrious sensory nerves promotes tendon healing

BY ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ZHIHUA ZHANG, ... | 18 FEB 2026

A myogenetic patch harnesses chronic activated nerve signaling to accelerate tendon regeneration and prevent adhesions.

ABSTRACT +

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