Bloomer.

2026 positive AI breakthroughs

A free list of every positive AI story Bloomer published in 2026, each with a short original summary, a link to the Bloomer story, and a link to the original source. Nothing here is unsourced, and no counts are invented.

150 STORIES FROM 2026, GROUPED BY MONTH. UPDATED WITH THE SITE.

October 2026

Patients help train their own seizure detectors by chatting with an AI app

In a Penn Medicine study of 13 people with epilepsy, a phone app let patients ask about their brain activity and flag false alarms so the system could learn.

Oct 13, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/penn-patients-chat-with-seizure-monitor/** (https://bloomer.news/stories/penn-patients-chat-with-seizure-monitor/) · Source: **Penn Medicine** (https://www.pennmedicine.org/news/ai-platform-allows-patients-to-text-with-their-medical-device)

AI design tools create enzymes that cut disease proteins on command

Researchers in David Baker's lab used AI protein design software to build new proteases that slice chosen targets, including proteins tied to dementia.

Oct 14, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/ai-designed-protease-scissors/** (https://bloomer.news/stories/ai-designed-protease-scissors/) · Source: **Ars Technica** (https://arstechnica.com/science/2026/10/researchers-use-ai-to-design-proteins-that-cut-up-other-proteins/)

AI maps how more than 18,000 human proteins move in under two days

An Illinois deep learning model called ESMDynamic predicts protein motion in milliseconds, work that once needed months of supercomputer time.

Oct 14, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/illinois-esmdynamic-protein-motion/** (https://bloomer.news/stories/illinois-esmdynamic-protein-motion/) · Source: **University of Illinois** (https://chbe.illinois.edu/news/stories/ai-model-offers-faster-way-explore-how-proteins-move-study-finds)

AI helps new radiation oncologists outline prostates more accurately and faster

In a randomized trial presented at ASTRO 2026, trainees using AI generated contours matched expert outlines more closely and finished about 24 percent faster.

Oct 15, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/ai-contouring-brachytherapy-trial/** (https://bloomer.news/stories/ai-contouring-brachytherapy-trial/) · Source: **ASCO AI in Oncology** (https://ascoai.org/articles/2026/10/ai-auto-segmentation-narrows-the-gap-between-trainee-and-attending-contours-in-prostate-brachytherapy/)

Caltech AI learns to spot sudden shifts ahead of time in simulated climate and airflow

A recurrent neural operator predicted the timing of abrupt transitions in simplified models, in one case looking more than two years ahead.

Oct 15, 2026 · AI in Science · Bloomer: https://bloomer.news/stories/caltech-ai-forecasts-tipping-points/ (https://bloomer.news/stories/caltech-ai-forecasts-tipping-points/) · Source: Caltech (https://www.caltech.edu/about/news/forecasting-tipping-points-with-ai)

AI agents help Penn State scientists find a new pattern in food physics

Guided by human experts, AI agents gathered more than 4,000 experimental data records from food science papers in 30 minutes and revealed a previously unreported relationship.

Oct 16, 2026 · AI in Science · Bloomer: https://bloomer.news/stories/penn-state-ai-agents-food-physics/ (https://bloomer.news/stories/penn-state-ai-agents-food-physics/) · Source: Penn State (https://www.psu.edu/news/research/story/can-ai-help-discover-new-food-physics-researchers-pair-ai-human-expertise)

Stanford AI helps clinicians follow ICU patients' activity across a whole hospital stay

TRACER combines bedside video with health records so doctors and nurses can see how a patient's movement and behavior change over an ICU stay.

Oct 16, 2026 · AI in Health · Bloomer: https://bloomer.news/stories/stanford-tracer-icu-patient-activity/ (https://bloomer.news/stories/stanford-tracer-icu-patient-activity/) · Source: Stanford AI Lab Blog (https://ai.stanford.edu/blog/tracer/)

AI summaries lighten the load for cancer clinicians before first visits

At the Netherlands Cancer Institute, an AI tool that turns messy records into structured summaries cut clinicians' perceived workload in a real world study.

Oct 17, 2026 · AI in Health · Bloomer: https://bloomer.news/stories/ai-oncology-consult-prep/ (https://bloomer.news/stories/ai-oncology-consult-prep/) · Source: npj Digital Medicine (https://www.nature.com/articles/s41746-026-03396-6)

MIT model helps AI understand crystals in 3D to find better materials

A new multimodal AI from MIT pairs atomic structures with written descriptions, helping it suggest promising materials such as battery electrolytes.

Oct 18, 2026 · AI in Science · Bloomer: https://bloomer.news/stories/mit-ai-crystal-materials/ (https://bloomer.news/stories/mit-ai-crystal-materials/) · Source: MIT News (https://news.mit.edu/2026/giving-ai-crystal-clear-view-of-materials-world-1018)

Left alone on a virtual island, Claude agents started to play and learned from it

Researchers left Claude agents on a simulated island for 30 hours with no task. They invented games and goals, and the playtime made them better at later challenges.

Oct 19, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/claude-agents-play-virtual-island/** (https://bloomer.news/stories/claude-agents-play-virtual-island/) · Source: **MIT Technology Review** (https://www.technologyreview.com/2026/10/19/1147095/ai-stranded-claude-virtual-desert-island-play/)

MIT AI keeps fetal brain MRI scans sharp even when the baby moves

E(3)-Pose tracks a moving fetus's head during MRI so scans stay complete, which could mean earlier diagnoses and fewer repeat hospital visits.

Oct 19, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/mit-e3-pose-fetal-mri/** (https://bloomer.news/stories/mit-e3-pose-fetal-mri/) · Source: **MIT News** (https://news.mit.edu/2026/teaching-ai-about-symmetry-could-make-prenatal-diagnosis-more-reliable-1019)

Seoul National University robot AI pictures the result before it moves

Dynin-Robotics reads instructions, imagines the scene after an action and uses that picture to choose its moves, topping the models it was compared with.

Oct 19, 2026 · AI in Robotics · Bloomer: **https://bloomer.news/stories/snu-dynin-robotics-predicts-scenes/** (https://bloomer.news/stories/snu-dynin-robotics-predicts-scenes/) · Source: **Seoul National University College of Engineering** (https://eng.snu.ac.kr/en/communication/promotion/news?bbsidx=8429&md=v)

Claude designs protein binders against scorpion toxins, a first step toward new antivenoms

Working mostly on its own for 64 hours, an internal Claude research model designed protein binders against four dangerous scorpion neurotoxins. Lab tests confirmed 17 of 211 designs.

Oct 20, 2026 · AI for Health · Bloomer: **https://bloomer.news/stories/claude-scorpion-toxin-binders/** (https://bloomer.news/stories/claude-scorpion-toxin-binders/) · Source: **Anthropic** (https://www.anthropic.com/research/claude-scorpion-toxin-binder-design)

A startup's AI model learns to read the electrical signals of plants

Electric Plant built Bombadil, an AI model that interprets tiny electrical signals inside about 125 plant species to tell growers what their crops need.

Oct 20, 2026 · AI for the Planet · Bloomer: **https://bloomer.news/stories/electric-plant-bombadil-plant-signals/** (https://bloomer.news/stories/electric-plant-bombadil-plant-signals/) · Source: **TechCrunch** (https://techcrunch.com/2026/10/20/plants-can-speak-using-electricity-so-this-startup-built-an-ai-model-to-decipher-their-language/)

AI agents help physicists find new exact solutions for fusion magnetic fields in hours

Researchers used Gemini 4 Argon agents to extend exact solutions for the magnetic fields that hold plasma in fusion devices, giving software developers new reference cases.

Oct 20, 2026 · AI for Science · Bloomer: **https://bloomer.news/stories/gemini-agents-extend-fusion-solutions/** (https://bloomer.news/stories/gemini-agents-extend-fusion-solutions/) · Source: **TechRadar** (https://www.techradar.com/pro/its-over-ai-won-google-gemini-4-argon-shatters-59-year-old-nuclear-fusion-conjecture-in-just-a-few-hours)

KAIST AI restores satellite views hidden by clouds

GeoCore-9B rebuilds cloud-covered satellite images and turns radar scans into photo-like views, which could help disaster response and environmental monitoring.

Oct 20, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/kaist-geocore-cloud-free-satellite-views/** (https://bloomer.news/stories/kaist-geocore-cloud-free-satellite-views/) · Source: **KAIST News Center** (https://www.kaist.ac.kr/newsen/html/news/?mng_no=68390&mode=V)

AI spots a treatable weakness in ovarian cancer from ordinary tissue images

King's College London's HRDPath model reads microscope images of tumour tissue to find faulty DNA repair, a flaw some drugs can exploit, without a genomic test.

Oct 21, 2026 · AI for Health · Bloomer: **https://bloomer.news/stories/kcl-hrdpath-ovarian-cancer/** (https://bloomer.news/stories/kcl-hrdpath-ovarian-cancer/) · Source: **King's College London** (https://www.kcl.ac.uk/news/ai-model-detects-signs-of-faulty-dna-repair-in-ovarian-cancer-using-tissue-images)

AI lets health workers without sonography training date pregnancies as accurately as experts

In a prospective study in Chicago and Nairobi, Google's AI read simple blind sweep ultrasounds from low-cost probes and estimated gestational age as accurately as expert sonographers.

Oct 22, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/google-blind-sweep-ultrasound-pregnancy/** (https://bloomer.news/stories/google-blind-sweep-ultrasound-pregnancy/) · Source: **Google Research** (https://research.google/blog/empowering-frontline-maternal-care-with-ai-assisted-ultrasound/)

AI designs new enzyme parts that help microbes make more drug building blocks

HIPS researchers used generative AI to design 76 new parts for the molecular assembly lines microbes use to make antibiotics and other drugs. Some raised yields up to threefold.

Oct 22, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/hips-ai-designs-enzyme-building-blocks/** (https://bloomer.news/stories/hips-ai-designs-enzyme-building-blocks/) · Source: **Helmholtz Institute for Pharmaceutical Research Saarland (HIPS)** (https://www.helmholtz-hips.de/en/news-events/news/detail/news/artificial-intelligence-aids-in-the-development-of-new-active-ingredients/)

Thousands of AI agents sift millions of brain cells for new clues to neurodegenerative disease

OpenAI, PerturbAI and Scripps Research used thousands of GPT-Rosalind agents to analyze a whole-brain CRISPR atlas in 32 minutes, surfacing testable leads for brain disease research.

Oct 22, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/openai-agents-brain-cell-atlas/** (https://bloomer.news/stories/openai-agents-brain-cell-atlas/) · Source: **OpenAI** (https://openai.com/index/scaling-ai-research-for-complex-biological-data)

RFD4-Proteina, a new open AI model, makes protein design faster and more successful

The UW Medicine Institute for Protein Design and NVIDIA released RFD4-Proteina, an open model that designs working proteins with five to ten times higher success rates on benchmarks.

Oct 22, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/uw-nvidia-rfd4-proteina-protein-design/** (https://bloomer.news/stories/uw-nvidia-rfd4-proteina-protein-design/) · Source: **UW Medicine** (https://newsroom.uw.edu/news-releases/researchers-achieve-major-advance-in-protein-design)

Claude writes mathematical proofs that 123 open source libraries will not crash

Working with Theorem, Anthropic used Claude to formally prove crash-freedom properties for 239 entry points across 123 open source libraries, fixing long-hidden bugs along the way.

Oct 23, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/anthropic-claude-formal-verification-123-libraries/** (https://bloomer.news/stories/anthropic-claude-formal-verification-123-libraries/) · Source: **Anthropic** (https://www.anthropic.com/research/formal-verification)

Microsoft's AI diagnostic panel tops physicians on tough cases while ordering fewer tests

In a Science study, Microsoft's MAI-DxO worked through cases step by step like a panel of doctors and reached correct diagnoses more often than generalist physicians, at lower testing cost.

Oct 23, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/microsoft-mai-dxo-sequential-diagnosis-science/** (https://bloomer.news/stories/microsoft-mai-dxo-sequential-diagnosis-science/) · Source: **Microsoft AI (study published in Science)** (https://microsoft.ai/news/building-medical-superintelligence/)

MSK's DynaVelo AI predicts how cells develop and suggests fixes that worked in mice

Researchers at Memorial Sloan Kettering and Weill Cornell built DynaVelo, an AI tool that infers how cells change over time and runs virtual experiments; its suggested fixes restored normal immune cell behavior in mice.

Oct 23, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/msk-dynavelo-predicts-cell-fate/** (https://bloomer.news/stories/msk-dynavelo-predicts-cell-fate/) · Source: **Memorial Sloan Kettering Cancer Center** (https://www.mskcc.org/news/msk-research-highlights-october-22-2026)

UChicago AI tools read tumor 'floor plans' to predict who responds to immunotherapy

Borrowing ideas from flocks of birds, UChicago researchers built AI methods that compare how tumors are spatially organized and predicted lung cancer immunotherapy response better than the standard biomarker.

Oct 23, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/uchicago-tumor-floor-plans-immunotherapy/** (https://bloomer.news/stories/uchicago-tumor-floor-plans-immunotherapy/) · **Source: University of Chicago News** (https://news.uchicago.edu/story/new-uchicago-built-tools-predict-how-cancer-responds-treatment-studying-floor-plans-tumors)

Autonomous AI eye exams closed a screening gap for young people with diabetes

In a Johns Hopkins-led study of 397 young people with diabetes, point-of-care autonomous AI eye exams brought screening completion to about 98 to 99.5 percent for both White and non-White youth.

Oct 24, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/autonomous-ai-eye-exams-close-screening-gap-youth/** (https://bloomer.news/stories/autonomous-ai-eye-exams-close-screening-gap-youth/) · **Source: Nature Communications** (https://www.nature.com/articles/s41467-026-78842-w)

Google's open health AI models are helping clinics screen for tuberculosis in seconds

Google Research shared how its chest X-ray AI, now a certified tool from partner Nexus AI, and open models like MedGemma are speeding up tuberculosis screening across Africa and in Indonesia.

Oct 24, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/google-medgemma-tb-screening-front-lines/** (https://bloomer.news/stories/google-medgemma-tb-screening-front-lines/) · **Source: Google Research** (https://research.google/blog/bringing-foundational-models-to-the-front-lines-of-tb-screening/)

Machine learning tunes genetic risk scores to local patients and finds more people at risk

Researchers at Mass General Brigham and the Broad Institute used machine learning to recalibrate published polygenic risk scores to local data, improving prediction for heart disease, breast cancer and prostate cancer.

Oct 24, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/mgb-machine-learning-tunes-genetic-risk-scores/** (https://bloomer.news/stories/mgb-machine-learning-tunes-genetic-risk-scores/) · **Source: Nature Communications** (https://www.nature.com/articles/s41467-026-77770-z)

An explainable AI and robot lab found cheap hydrogen catalysts that rival platinum

UCLA, National Taiwan University and UNC researchers paired an interpretable decision-making AI with an automated electrochemistry platform and discovered new earth-abundant catalysts for making hydrogen.

Oct 24, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/ucla-ai-robot-lab-finds-hydrogen-catalysts/** (https://bloomer.news/stories/ucla-ai-robot-lab-finds-hydrogen-catalysts/) · **Source: Nature Communications** (https://www.nature.com/articles/s41467-026-78335-w)

Google DeepMind researchers find and fix two hidden math bugs in how AI models learn

A new paper identifies two numerical bugs in standard softmax and cross-entropy code and offers drop-in fixes that remove loss spikes and keep distilled models closer to their teachers.

Oct 25, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/deepmind-fix-softmax-cross-entropy-bugs/** (https://bloomer.news/stories/deepmind-fix-softmax-cross-entropy-bugs/) · Source: **arXiv (Barron, Gnanapragasam and Tschannen, Google DeepMind)** (https://arxiv.org/abs/2610.31642)

Harvard study finds AI peer reviews now beat even top human reviews

In blind tests on 124 manuscripts, former journal editors preferred Claude Opus 4.8 reviews in 26 of 30 judgments, and the AI reviews had about a third the rate of incorrect claims.

Oct 25, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/harvard-ai-peer-reviews-beat-top-human-reviews/** (https://bloomer.news/stories/harvard-ai-peer-reviews-beat-top-human-reviews/) · Source: **Harvard IQSS working paper (Gary King and Steven Worthington)** (https://gking.harvard.edu/files/peerless.pdf)

An AI model designs working proteins from plain-language descriptions

Pinal, a 16 billion parameter model described in Nature, turned written descriptions of a desired function into proteins that worked in the lab across four different design tasks.

Oct 25, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/pinal-designs-proteins-from-plain-language/** (https://bloomer.news/stories/pinal-designs-proteins-from-plain-language/) · Source: **Nature** (https://www.nature.com/articles/s41586-026-11205-z)

The UK is launching an AI lab to spot disease threats earlier and speed up vaccines

The UK government announced the AI Biosecurity Lab, backed by £100 million of public money and up to £200 million in compute and model credits from OpenAI and Anthropic, to detect outbreaks sooner and accelerate treatments.

Oct 25, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/uk-ai-biosecurity-lab-faster-vaccines/** (https://bloomer.news/stories/uk-ai-biosecurity-lab-faster-vaccines/) · Source: **GOV.UK (Cabinet Office)** (https://www.gov.uk/government/news/introducing-the-ai-biosecurity-lab)

Researchers trace how AI image generators learn to create instead of copy

A study links diffusion models to associative memory networks and finds that the odd in-between states once seen as glitches are actually the first signs of a model learning to generate new things.

Oct 26, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/diffusion-models-emerge-from-associative-memory/** (https://bloomer.news/stories/diffusion-models-emerge-from-associative-memory/) · Source: **Nature Communications** (https://www.nature.com/articles/s41467-026-78727-y)

Google open-sources the plugin its engineers use to catch AI coding mistakes before they happen

The free Elephant-Goldfish Model plugin makes an AI coding agent write and defend a design document, then hands it to fresh AI reviewers with no memory of the conversation to hunt for gaps.

Oct 26, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/google-open-sources-elephant-goldfish-plugin/** (https://bloomer.news/stories/google-open-sources-elephant-goldfish-plugin/) · **Source: Help Net Security** (https://www.helpnetsecurity.com/2026/10/26/google-elephant-goldfish-model-plugin/)

AI home monitoring aims to catch early warning signs for children on ventilators

Doctors at Severance Hospital and Seoul Asan Hospital are building an AI service that reads home ventilator data in real time and guides caregivers with responses matched to the level of risk.

Oct 26, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/korea-ai-home-ventilator-monitoring-children/** (https://bloomer.news/stories/korea-ai-home-ventilator-monitoring-children/) · **Source: Health Chosun** (https://health.chosun.com/english/site/data/html_dir/2026/10/26/2026102602012.html)

USC researchers teach 3D AI models to recognize the parts of an object, not just the whole

3D-PLOT-LLM lets a language model point to and describe specific parts of a 3D object, like a chair's legs or back, while adding fewer than one million parameters. Code, weights and data are public.

Oct 26, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/usc-ai-names-parts-of-3d-objects/** (https://bloomer.news/stories/usc-ai-names-parts-of-3d-objects/) · **Source: USC Media Communications Lab** (https://mcl.usc.edu/news/2026/10/25/mcl-research-on-multimodal-llms-for-3d-understanding/)

Limited to research from before 2018, AI still picked out a hydrogen catalyst found years later

Researchers used language models to mine thousands of papers for clues to high-entropy alloy catalysts, and a test on pre-2018 literature flagged an alloy that was later reported for hydrogen production.

Oct 27, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/ai-reads-old-papers-finds-hydrogen-catalyst/** (https://bloomer.news/stories/ai-reads-old-papers-finds-hydrogen-catalyst/) · **Source: Phys.org (ARC Centre of Excellence for Carbon Science and Innovation)** (https://phys.org/news/2026-10-restricted-pre-ai-flags-hydrogen.html)

OpenAI says its models found new results in math, computer science and physics, and hands them to experts to check

OpenAI says its internal models produced a proof of the local smoothing conjecture, a refutation of the Exponential Time Hypothesis and an existence proof for quantum chromodynamics, with outside expert groups now examining the work.

Oct 27, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/openai-ai-discoveries-math-cs-physics-experts/** (https://bloomer.news/stories/openai-ai-discoveries-math-cs-physics-experts/) · **Source: OpenAI** (https://openai.com/index/building-scientific-understanding-with-academic-communities)

AI spots hidden signs of pancreatic cancer on CT scans more than a year before diagnosis

In a study in the journal Gut, the REDMOD model found subtle tissue patterns an average of 475 days before diagnosis and caught 73% of early cases, compared with 39% for radiologists.

Oct 27, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/redmod-ai-spots-pancreatic-cancer-early/** (https://bloomer.news/stories/redmod-ai-spots-pancreatic-cancer-early/) · Source: **ScienceDaily (BMJ Group)** (https://www.sciencedaily.com/releases/2026/10/261024222031.htm)

Explainable AI 'digital twins' suggest extra treatments for hard-to-treat breast cancer

A symbolic AI model built virtual tumours for 31 trial patients, correctly predicted treatment response in 74% of cases and found possible extra options for 12 of 13 patients who did not fully respond.

Oct 27, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/ucl-digital-twins-triple-negative-breast-cancer/** (https://bloomer.news/stories/ucl-digital-twins-triple-negative-breast-cancer/) · Source: **UCL News** (https://www.ucl.ac.uk/news/2026/oct/ai-based-computer-model-offers-new-weapon-against-hard-treat-cancers)

Claude helps design shorter cancer therapy parts, allergy antibodies and faster drug paperwork, Anthropic reports

Anthropic shared early results from six drug development partnerships, from CAR T designs for solid tumors to food allergy antibody hits and a muscular dystrophy program.

Oct 28, 2026 · AI for Health · Bloomer: **https://bloomer.news/stories/anthropic-claude-drug-development-partners/** (https://bloomer.news/stories/anthropic-claude-drug-development-partners/) · Source: **Anthropic** (https://www.anthropic.com/research/early-progress-drug-development)

Google DeepMind unveils Genie 4, a world model that simulates scenes with realistic people, physics and sound

Genie 4 generates explorable worlds in real time with native audio and dialogue, and can be steered with plain language, opening new ways to train robots and prototype ideas.

Oct 28, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/deepmind-genie-4-world-model/** (https://bloomer.news/stories/deepmind-genie-4-world-model/) · Source: **Google DeepMind** (https://deepmind.google/blog/genie-4-a-new-generation-of-world-simulation/)

Google Research gives language models a "sleep" phase so they can keep learning without forgetting

Inspired by how the brain stores memories during rest, Google's sleep framework lets a model alternate between active use and offline consolidation, absorbing new facts while keeping old skills.

Oct 28, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/google-sleep-framework-llms-keep-learning/** (https://bloomer.news/stories/google-sleep-framework-llms-keep-learning/) · Source: **Google Research** (https://research.google/blog/the-sleep-framework-a-new-way-for-llms-to-retain-knowledge-in-continual-learning/)

A routine face photo could help doctors tailor cancer care, Mass General Brigham AI study finds

FAHR-Face, trained on more than 40 million facial photographs, estimates biological age and outlook from a simple photo, giving doctors another quick signal before choosing intensive treatment.

Oct 28, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/mgb-fahr-face-photo-health-assessment/** (https://bloomer.news/stories/mgb-fahr-face-photo-health-assessment/) · Source: **ASCO AI in Oncology (The Lancet Digital Health study)** (https://ascoai.org/articles/2026/10/foundation-model-improves-prognostication-from-facial-image-analysis-for-patients-with-cancer/)

Anthropic expands AI for Science, giving free Claude credits to 20 foundations, institutes and research projects

From the Space Telescope Science Institute to the Broad Institute's gnomAD, new partners will use free Claude credits to speed up research, with many projects producing open tools and data.

Oct 29, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/anthropic-ai-for-science-20-partners/** (https://bloomer.news/stories/anthropic-ai-for-science-20-partners/) · Source: **Anthropic** (https://www.anthropic.com/news/ai-for-science-expands-foundations-research-institutions)

Meta backs research at five US universities using its open AI models for medicine and science

Caltech, Ohio State, LSU, Indiana University and UTHealth Houston will use Meta's models on projects from earlier heart failure detection to offline newborn care guidance.

Oct 29, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/meta-five-universities-muse-science-medicine/** (https://bloomer.news/stories/meta-five-universities-muse-science-medicine/) · Source: **Meta AI Research** (https://research.meta.ai/blog/supporting-medical-scientific-research)

NVIDIA releases Nemotron 3.5 Transcribe, an open speech model that transcribes 40 languages and knows who said what

One open-weight model handles transcription in 40 languages, translation in 31, speaker labels and audio questions, alongside an open dataset spanning 48 languages.

Oct 29, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/nvidia-nemotron-transcribe-open-speech-40-languages/** (https://bloomer.news/stories/nvidia-nemotron-transcribe-open-speech-40-languages/) · Source: **NVIDIA on Hugging Face** (https://huggingface.co/blog/nvidia/nemotron-transcribe-granary)

Tiny "micro language models" let smartwatches start answering instantly, University of Washington researchers show

Models with just 8 to 30 million parameters begin a reply on the device while a big cloud model catches up, and most study participants preferred the faster experience.

Oct 29, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/uw-micro-language-models-smartwatches/** (https://bloomer.news/stories/uw-micro-language-models-smartwatches/) · Source: **UW News** (https://www.washington.edu/news/2026/10/28/october-research-highlights-cellular-organization-downsized-llms-migrant-fishers-and-burrowing-shrimp/)

Berkeley Lab's TEM Agent lets scientists run a world class electron microscope in plain English

By connecting a commercial AI model to the microscope's existing controls, researchers can describe an experiment in words and let the agent carry out the dozens of steps.

Oct 30, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/berkeley-lab-tem-agent-electron-microscope/** (https://bloomer.news/stories/berkeley-lab-tem-agent-electron-microscope/) · Source: **Molecular Foundry, Berkeley Lab** (https://foundry.lbl.gov/2026/10/29/new-virtual-assistant-streamlines-one-of-the-most-advanced-microscopes/)

Biohub's AI spots sepsis from images of millions of blood cells, aiming for answers in minutes

In an early study, the Remo-ID model correctly classified 43 of 47 blood samples, telling sepsis apart from other critical illness and healthy blood.

Oct 30, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/biohub-remo-id-sepsis-blood-cell-images/** (https://bloomer.news/stories/biohub-remo-id-sepsis-blood-cell-images/) · Source: **Biohub** (https://biohub.org/blog/ai-sepsis-detection-blood-cells/)

An AI agent helps radiologists read abdominal ultrasounds faster, CU Anschutz study shows

A vision language model that combines ultrasound images with lab data identified the correct diagnoses 99.6% of the time in 100 reports reviewed by experts.

Oct 30, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/cu-anschutz-ai-agent-reads-abdominal-ultrasounds/** (https://bloomer.news/stories/cu-anschutz-ai-agent-reads-abdominal-ultrasounds/) · Source: **CU Anschutz School of Medicine** (https://news.cuanschutz.edu/medicine/ai-tool-for-ruq-ultrasounds)

EVENET, a foundation model for particle collisions, rediscovers a known particle in real CMS data

Pretrained on 500 million simulated collision events, the open access model beat established methods in searches for new physics, especially when data was scarce.

Oct 30, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/evenet-foundation-model-particle-physics/** (https://bloomer.news/stories/evenet-foundation-model-particle-physics/) · Source: **Nature Machine Intelligence** (https://www.nature.com/articles/s42256-026-01322-9)

Imperial joins a 4.2 million euro project to build AI that learns inside physical materials

The four year KAN-DO-IT project, funded by the European Innovation Council, will explore nanoscale devices that perform machine learning directly and could save huge amounts of energy.

Oct 31, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/imperial-kan-do-it-physical-ai-hardware/** (https://bloomer.news/stories/imperial-kan-do-it-physical-ai-hardware/) · Source: **Imperial College London** (https://www.imperial.ac.uk/news/articles/natural-sciences/physics/2026/imperial-team-secures-horizon-pathfinder-funding-for-next-generation-ai/)

AI models catch far more errors in clinical trial reports than human reviewers, preprint finds

Fifteen language models found 53% to 96% of planted major errors in trial reports, compared with 27% for untrained human reviewers in an earlier experiment.

Oct 31, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/llms-catch-clinical-trial-errors-peer-review/** (https://bloomer.news/stories/llms-catch-clinical-trial-errors-peer-review/) · Source: **medRxiv (preprint)** (https://www.medrxiv.org/content/10.64898/2026.10.25.26366455v2)

Self-taught AI models read cell images better than classic methods, Nature Methods study finds

Researchers pretrained and benchmarked self-supervised foundation models on the largest public Cell Painting dataset, and the models beat classical methods across cell types.

Oct 31, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/nature-methods-cell-painting-foundation-models/** (https://bloomer.news/stories/nature-methods-cell-painting-foundation-models/) · Source: **Nature Methods** (https://www.nature.com/articles/s41592-026-03271-y)

UC Santa Barbara funds five projects to make AI and data centers use less energy

Seed grants from UCSB's Institute for Energy Efficiency back leaner AI agents, energy proportional models, smarter data center cooling and new computing hardware.

Oct 31, 2026 · AI for the Planet · Bloomer: **https://bloomer.news/stories/ucsb-iee-seed-grants-energy-efficient-ai/** (https://bloomer.news/stories/ucsb-iee-seed-grants-energy-efficient-ai/) · Source: **UC Santa Barbara College of Engineering** (https://engineering.ucsb.edu/news/iee-awards-seed-funding)

November 2026

AI forecasts where monsoon landslides will hit Nepal up to two weeks ahead

A team from Durham, Oxford and partners built the first national AI system that forecasts district by district landslide impacts across Nepal over a 14 day window.

Nov 1, 2026 · AI for the Planet · Bloomer: **https://bloomer.news/stories/ai-forecasts-nepal-monsoon-landslides/** (https://bloomer.news/stories/ai-forecasts-nepal-monsoon-landslides/) · Source: **Durham University Research Online** (https://durham-repository.worktribe.com/output/6034124)

An AI tool reads children's eardrum photos to help rule out ear infections

Researchers at Turku University Hospital in Finland trained an AI classifier that was 92% accurate at spotting acute ear infections in eardrum images of young children.

Nov 1, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/finland-ai-ear-infection-kids/** (https://bloomer.news/stories/finland-ai-ear-infection-kids/) · Source: **Scienceline** (https://scienceline.org/2026/10/ear-infection-a-new-ai-model-may-have-the-diagnosis/)

Vanderbilt's MutexaGPT turns a chemist's plain English hunch into real enzyme designs

Vanderbilt chemists built MutexaGPT, an AI assistant that converts scientists' intuition, typed in plain English, into physics based enzyme designs for cleaner medicine and food production.

Nov 1, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/vanderbilt-mutexagpt-enzyme-design/** (https://bloomer.news/stories/vanderbilt-mutexagpt-enzyme-design/) · Source: **Vanderbilt University** (https://as.vanderbilt.edu/news/2026/10/20/vanderbilt-chemists-develop-ai-tool-to-convert-human-ingenuity-into-life-enhancing-enzymes/)

New AI tool spots hidden soil bacteria that genetic databases miss

Researchers in Israel built BBERT, a language model style AI that recognizes bacterial DNA even from microbes missing from reference databases, which could help researchers study microbes that matter for agriculture.

Nov 2, 2026 · AI for the Planet · Bloomer: **https://bloomer.news/stories/bbert-ai-finds-hidden-soil-bacteria/** (https://bloomer.news/stories/bbert-ai-finds-hidden-soil-bacteria/) · Source: **World Israel News (TPS)** (https://worldisraelnews.com/israeli-ai-breakthrough-could-unlock-new-possibilities-for-agriculture/)

KAIST method trains specialist AI in about a third of the time

A KAIST team found that picking training examples more carefully, rather than adding more chips, cut fine-tuning time on a medical question task by 69.6 percent.

Nov 2, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/kaist-cluster-faster-ai-fine-tuning/** (https://bloomer.news/stories/kaist-cluster-faster-ai-fine-tuning/) · Source: **Aju Press** (https://www.ajupress.com/view/20261102091759595)

A simple AI loop proves hard math theorems and settles eight open problems

Researchers at FAIR at Meta, NYU and EPFL built h1, a plain agent loop around the Lean proof checker that matches elaborate theorem provers at lower cost and settled eight open conjectures.

Nov 2, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/meta-nyu-h1-simple-loop-theorem-proving/** (https://bloomer.news/stories/meta-nyu-h1-simple-loop-theorem-proving/) · Source: **arXiv (FAIR at Meta, NYU, EPFL)** (https://arxiv.org/abs/2610.35962)

South Korea switches on Hangang, a supercomputer 24 times faster than its predecessor

KISTI turned on Hangang, South Korea's sixth national supercomputer, with 8,496 GPUs and a theoretical peak of 614 quadrillion calculations per second, to support AI and scientific research.

Nov 3, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/kisti-hangang-supercomputer-switched-on-korea/** (https://bloomer.news/stories/kisti-hangang-supercomputer-switched-on-korea/) · Source: **Aju Press** (https://www.ajupress.com/view/20261103134853032)

MIT's Barzilay and Collins win a top AI science prize for AI discovered antibiotics

MIT professors Regina Barzilay and James Collins won the 2026 Pritzker Prize for AI in Science Research Excellence for using deep learning to find new antibiotics against drug resistant bacteria.

Nov 3, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/mit-pritzker-prize-barzilay-collins-ai-antibiotics/** (https://bloomer.news/stories/mit-pritzker-prize-barzilay-collins-ai-antibiotics/) · **Source: MIT News** (https://news.mit.edu/2026/regina-barzilay-jim-collins-win-pritzker-prize-ai-and-science-research-excellence-1102)

Penn's Percival AI looks for hidden disease on CT scans ordered for something else

Penn Medicine built Percival, a research AI that checks CT scans for signs of pancreatic cancer, cirrhosis and kidney disease beyond the reason the scan was ordered; it is not yet used on patients.

Nov 3, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/penn-percival-ai-reads-ct-scans-for-hidden-disease/** (https://bloomer.news/stories/penn-percival-ai-reads-ct-scans-for-hidden-disease/) · **Source: Medical Daily** (https://www.medicaldaily.com/penn-ai-ct-scans-hidden-disease-signs-480677)

AI eye photo screening flags glaucoma years before diagnosis in large Dutch study

A Dutch team tested an AI algorithm on eye photos from 9,837 people and found it caught about 71 percent of glaucoma cases at a low false alarm rate, sometimes years before diagnosis.

Nov 3, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/rotterdam-study-ai-glaucoma-screening-validation/** (https://bloomer.news/stories/rotterdam-study-ai-glaucoma-screening-validation/) · **Source: Ophthalmology (journal)** (https://www.aaojournal.org/article/S0161-6420(26)00846-8/fulltext)

AI model learns general prediction skills from data it makes up for itself

Researchers at Tel Aviv University and Stanford showed a proof of concept in which a model trained only on self generated sequences improved its predictions across text, images, music, code and DNA.

Nov 3, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/tel-aviv-stanford-zero-data-pretraining/** (https://bloomer.news/stories/tel-aviv-stanford-zero-data-pretraining/) · **Source: Ynetnews** (https://www.ynetnews.com/tech-and-digital/article/rjlpwql6zg)

DeepMind shows an AI agent turning days of drug design chemistry into about an hour

Google DeepMind says new Cheminformatics Skills let its Antigravity agent mine thousands of compounds and propose new lung cancer drug designs in about an hour, with lab testing still required.

Nov 4, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/deepmind-antigravity-cheminformatics-skills-drug-design/** (https://bloomer.news/stories/deepmind-antigravity-cheminformatics-skills-drug-design/) · **Source: Google DeepMind** (https://deepmind.google/blog/agentic-cheminformatics-with-google-antigravity/)

MIT team lands up to $38 million to build a body-powered patch that watches for heart failure and sepsis

MIT researchers will lead a four-year, up to $38 million ARPA-H project called PYTHIA to build a wearable patch with on-chip AI that tracks heart failure and sepsis biomarkers.

Nov 4, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/mit-pythia-arpa-h-wearable-patch-heart-failure-sepsis/** (https://bloomer.news/stories/mit-pythia-arpa-h-wearable-patch-heart-failure-sepsis/) · **Source: MIT News** (https://news.mit.edu/2026/mit-led-team-receives-funding-for-early-disease-detection-wearable-monitor-1104)

Stanford AI predicts cell types straight from ordinary pathology slides

Stanford researchers built SpatialWhisperer, an AI research tool that finds T cells, tumor cells and more on routine H&E slides, beating prior models by 13.9 to 15.9 percent on benchmarks.

Nov 4, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/stanford-spatialwhisperer-cell-types-from-pathology-slides/** (https://bloomer.news/stories/stanford-spatialwhisperer-cell-types-from-pathology-slides/) · **Source: Stanford Cancer Institute** (https://med.stanford.edu/cancer/about/news/from-pixels-to-plain-english--introducing-spatialwhisperer.html)

AI helps sort 98 million bat calls in Britain's largest woodland bat survey

Scientists say Britain's largest woodland bat survey, with 98 million calls recorded across 310 woodlands, would not have been feasible without AI, which saved an estimated 30 years of analysis.

Nov 4, 2026 · AI for the Planet · Bloomer: **https://bloomer.news/stories/uk-woodland-bat-survey-ai-98-million-calls/** (https://bloomer.news/stories/uk-woodland-bat-survey-ai-98-million-calls/) · **Source: BBC News** (https://www.bbc.co.uk/news/articles/cqm24kgr1jz4o)

Anthropic says Claude helped its biology team solve the first 3D structure of a bacterial vault particle

Anthropic's biology lab reports that Claude helped it find, isolate and map a vault particle from a bacteriophage, a barrel-shaped protein structure whose purpose is still unknown.

Nov 5, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/anthropic-claude-first-3d-structure-bacterial-vault-particle/** (https://bloomer.news/stories/anthropic-claude-first-3d-structure-bacterial-vault-particle/) · **Source: Anthropic** (https://www.anthropic.com/research/investigating-vault-particles-with-claude)

MIT's new robot memory system spots its own mistakes and fixes mislabeled objects

MIT researchers created UQ-DAAAM, which lets a moving robot measure how unsure it is about an object description and refine it using extra camera views.

Nov 5, 2026 · AI and Robotics · Bloomer: **https://bloomer.news/stories/mit-uq-daaam-robot-memory-knows-what-it-doesnt-know/** (https://bloomer.news/stories/mit-uq-daaam-robot-memory-knows-what-it-doesnt-know/) · **Source: MIT News** (https://news.mit.edu/2026/cleaning-up-robot-fuzzy-memory-1105)

AI agents run a robotic Shanghai lab that designs and carries out DNA experiments from a simple prompt

A Nature news report describes AutoDNA, a Shanghai Jiao Tong University lab where a team of AI agents plans and runs DNA synthesis and sequencing experiments with robots.

Nov 5, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/nature-autodna-ai-agents-run-self-driving-dna-lab/** (https://bloomer.news/stories/nature-autodna-ai-agents-run-self-driving-dna-lab/) · **Source: Nature** (https://www.nature.com/articles/d41586-026-03552-8)

USC team's AI fills in missing pieces of brain wiring maps where MRI scans lose signal

Researchers at USC built FOD-Diffusion, a generative AI model that restores brain pathway data lost to MRI distortions, which could help studies of aging and disease.

Nov 5, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/usc-fod-diffusion-fills-gaps-brain-wiring-maps/** (https://bloomer.news/stories/usc-fod-diffusion-fills-gaps-brain-wiring-maps/) · **Source: Medical Xpress (Keck School of Medicine of USC)** (https://medicalxpress.com/news/2026-11-generative-ai-gaps-brain-wiring.html)

Meta's GSLM2 spoken language models narrow the gap with text AI by learning speech at many levels

Meta AI's GSLM2 paper says multi-stream spoken language models trained on up to 6M hours shrink the linguistic gap with text models by about two orders of magnitude on key benchmarks.

Nov 6, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/meta-gslm2-spoken-language-models-narrow-gap/** (https://bloomer.news/stories/meta-gslm2-spoken-language-models-narrow-gap/) · **Source: Meta AI** (https://ai.meta.com/research/publications/gslm2-multi-stream-speech-representation-learning-and-generative-spoken-language-modeling/)

Microsoft brings a 138B coding model onto Windows PCs with low-bit MAI-Code-1.1-Flash

Microsoft says MAI-Code-1.1-Flash, a 137.9B MoE coding model, fits in about 53 GB on RTX Spark PCs and reaches about 51 tokens per second at 120K context with speculative decoding.

Nov 6, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/microsoft-mai-code-local-coding-on-rtx-spark/** (https://bloomer.news/stories/microsoft-mai-code-local-coding-on-rtx-spark/) · **Source: Microsoft** (https://devblogs.microsoft.com/foundry-on-windows/coding-ai-on-windows-pcs-quality-efficiency/)

MIT researchers use GPT-6 Astra to edit another model's weights and unlock math it already had

MIT CSAIL researchers report that GPT-6 Astra directly edited a tiny share of Qwen3.5-0.8B's weights, raising MATH-500 from 7.9% to 48.1% without gradient training.

Nov 6, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/mit-csail-weight-space-programming-astra-edits-qwen/** (https://bloomer.news/stories/mit-csail-weight-space-programming-astra-edits-qwen/) · **Source: MIT CSAIL** (https://rikiyat.github.io/blog/weight-space-programming/)

PharmAgents2 plans drug hunts end to end, and wet labs confirm several of its hits

Tsinghua and AIPher researchers say PharmAgents2 autonomously ran end-to-end drug discovery workflows whose nominated compounds and a secondary target were later confirmed in human wet-lab tests.

Nov 6, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/tsinghua-pharmagents2-autonomous-drug-discovery-wet-lab/** (https://bloomer.news/stories/tsinghua-pharmagents2-autonomous-drug-discovery-wet-lab/) · Source: **arXiv** (https://arxiv.org/abs/2611.07653)

AIRoA-0 robot model learns towel folding and parts sorting from 16,000 hours of human hand data

Japan's AIRoA released AIRoA-0, a robot foundation model trained on 16,151 hours of human manipulation data gathered without robots, reporting a 78% average success rate on ten two-handed tasks.

Nov 7, 2026 · AI in Robotics · Bloomer: **https://bloomer.news/stories/airoa-0-robot-model-learns-from-human-demonstrations/** (https://bloomer.news/stories/airoa-0-robot-model-learns-from-human-demonstrations/) · Source: **AIRoA** (https://airoa.org/updates/20261106/832/)

An AI model reads health clues across 18 body systems from the way a person walks

A Nature Medicine study built a gait foundation model from 3D motion of 3,328 adults recorded with one depth camera, and it predicted traits like grip strength and sleep quality across 18 body systems.

Nov 7, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/gait-foundation-model-predicts-health-from-how-you-walk/** (https://bloomer.news/stories/gait-foundation-model-predicts-health-from-how-you-walk/) · Source: **Nature Medicine** (https://www.nature.com/articles/s41591-026-04724-9)

MIT's CheMeleon predicts how new molecules will behave even when lab data is scarce

MIT's open-source CheMeleon model learns chemistry from about a million molecules, then fine-tunes on a few data points to help drug and materials teams pick which compounds to test.

Nov 7, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/mit-chemeleon-predicts-molecule-properties-from-scant-data/** (https://bloomer.news/stories/mit-chemeleon-predicts-molecule-properties-from-scant-data/) · Source: **MIT News** (https://news.mit.edu/2026/how-to-predict-molecule-behavior-with-scant-data-1106)

MIT's VISTA helps AI agents remember what they saw and solve visual puzzles faster than first-time players

MIT researchers released VISTA, a free agent harness that saves every image frame so models can look back and zoom in, helping agents beat first-time human players on game benchmarks.

Nov 7, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/mit-vista-agent-remembers-images-beats-first-time-players/** (https://bloomer.news/stories/mit-vista-agent-remembers-images-beats-first-time-players/) · Source: **The Batch, DeepLearning.AI** (https://www.deeplearning.ai/the-batch/context-engineering-for-images)

An AI alert cut the wait for an autoimmune diagnosis from 138 days to 43 in a randomized trial

In a two-year randomized trial reported in NEJM AI, Vanderbilt and Johns Hopkins researchers found that an AI risk alert got high-risk patients diagnosed with autoimmune disease in a median of 43 days instead of 138.

Nov 8, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/aura-ai-alert-halves-time-to-autoimmune-diagnosis/** (https://bloomer.news/stories/aura-ai-alert-halves-time-to-autoimmune-diagnosis/) · **Source: Johns Hopkins Engineering for Professionals** (https://ep.jhu.edu/news/ai-tool-identifies-people-at-high-risk-for-autoimmune-disease-and-speeds-time-to-diagnosis/)

The NHS is trialing Dora Care, an AI phone assistant designed with empathy to check in on osteoporosis patients

A two-year NHS trial is testing Dora Care, a generative AI phone assistant built with help from linguists to hold safe, empathetic follow-up calls with people who have osteoporosis.

Nov 8, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/nhs-trials-empathetic-ai-phone-assistant-dora-care/** (https://bloomer.news/stories/nhs-trials-empathetic-ai-phone-assistant-dora-care/) · **Source: Newcastle University** (https://www.ncl.ac.uk/press/articles/latest/2026/11/dora/)

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structRFM, an open RNA foundation model, learns from 21 million sequence and structure pairs

A Nature paper presents structRFM, an RNA language model that builds base pairing into its training and reports 3D structure predictions comparable to AlphaFold3 on several benchmarks, with data, weights and code released openly.

Nov 8, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/structrfm-open-rna-foundation-model-nature/** (https://bloomer.news/stories/structrfm-open-rna-foundation-model-nature/) · **Source: Nature** (https://www.nature.com/articles/s41586-026-11210-2)

Cancer Grand Challenges funds AI co-scientists to help UCL teams hunt for new cancer treatments

Two teams involving UCL researchers won 1 million pounds each to join AURORA, an 8 million pound Cancer Grand Challenges project testing how AI co-scientists can work alongside cancer researchers.

Nov 8, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/ucl-ai-co-scientists-cancer-grand-challenges-aurora/** (https://bloomer.news/stories/ucl-ai-co-scientists-cancer-grand-challenges-aurora/) · **Source: UCL News** (https://www.ucl.ac.uk/news/2026/nov/ucl-researchers-win-cancer-grand-challenges-funding-test-ai-co-scientists)

In Copenhagen, an AI model spotted strokes on medical helpline calls more often than human call-takers did

A retrospective study in npj Digital Medicine found a speech-and-text AI pipeline recognized stroke in 63.0 percent of Copenhagen helpline cases, versus 52.7 percent for call-takers, as a supportive tool.

Nov 9, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/copenhagen-ai-flags-strokes-on-medical-helpline-calls/** (https://bloomer.news/stories/copenhagen-ai-flags-strokes-on-medical-helpline-calls/) · **Source: AI Weekly** (https://aiweekly.co/alerts/copenhagen-ml-model-spots-strokes-on-helpline-calls-at-63)

MANTIS, an AI model, predicts individual survival curves for children with common brain tumors

A Nature Genetics study describes MANTIS, a neural network trained on methylation data from 2,786 patients that estimates a child's ten-year survival odds and may help flag who could safely receive less intensive radiotherapy.

Nov 9, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/mantis-ai-predicts-survival-childhood-brain-tumors/** (https://bloomer.news/stories/mantis-ai-predicts-survival-childhood-brain-tumors/) · **Source: Scienmag** (https://scienmag.com/ai-model-predicts-individual-survival-in-childhood-brain-tumors-from-routine-methylation-data/)

MIT and NYU's FLEX helps robots understand what you meant, not just what you said

Researchers from MIT and New York University introduced FLEX, which uses a language model so a robot arm can generalize from a plain-language instruction, for example avoiding all fragile or electronic items after hearing 'Don't spill on the laptop.'

Nov 9, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/mit-nyu-flex-robots-read-between-the-lines/** (https://bloomer.news/stories/mit-nyu-flex-robots-read-between-the-lines/) · **Source: MIT News** (https://news.mit.edu/2026/ai-assisted-learning-platform-helps-robots-reason-beyond-literal-commands-1109)

MIT's WorldParticle uses one AI model to simulate everything from sliding sand to folding proteins

Researchers at MIT, the University of British Columbia and other institutions built WorldParticle, a single transformer-based simulator that models six kinds of physics and tracked protein motion about 100 times faster than numerical simulators.

Nov 9, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/mit-worldparticle-one-ai-model-simulates-sand-fluids-proteins/** (https://bloomer.news/stories/mit-worldparticle-one-ai-model-simulates-sand-fluids-proteins/) · **Source: MIT News** (https://news.mit.edu/2026/single-ai-model-simulates-many-substances-behavior-1109)

Claude designs working electronics prototypes from start to finish

Working with circuit board maker Diode Computers, Anthropic says Claude Fable 5.2 designed a speakerphone, a voice assistant hub and a handheld virtual pet whose prototypes worked without circuit fixes.

Nov 10, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/anthropic-claude-designs-working-electronics-prototypes/** (https://bloomer.news/stories/anthropic-claude-designs-working-electronics-prototypes/) · **Source: Anthropic** (https://www.anthropic.com/research/claude-electronics-design)

MIT-led team gets up to $53 million to design safer weed killers with AI

Through ARPA-H's STREAM program, MIT researchers will build generative AI models to discover herbicide alternatives designed with human health, cost and weed resistance in mind.

Nov 10, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/mit-arpa-h-generative-ai-safer-herbicides/** (https://bloomer.news/stories/mit-arpa-h-generative-ai-safer-herbicides/) · **Source: MIT News** (https://news.mit.edu/2026/mit-led-team-receives-funding-next-generation-alternatives-modern-weed-killers-1110)

NYU Langone's Lang1 reads doctors' notes to predict patient outcomes

A Nature Medicine study describes Lang1, a model trained on 20 years of records from more than 10 million patients that beat much larger general AI models at predicting readmissions and insurance denials.

Nov 10, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/nyu-langone-lang1-predicts-patient-outcomes-from-notes/** (https://bloomer.news/stories/nyu-langone-lang1-predicts-patient-outcomes-from-notes/) · **Source: NYU Langone Health** (https://nyulangone.org/news/ai-models-predictions-accurate-enough-quickly-improve-medical-decisions)

PREVIA uses AI to flag PTSD risk from what patients say in the ER

A Nature Communications study shows an ensemble of language models reading trauma survivors' own words predicted PTSD a month later about as well as a specialist emergency clinician.

Nov 10, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/previa-ai-flags-ptsd-risk-in-emergency-rooms/** (https://bloomer.news/stories/previa-ai-flags-ptsd-risk-in-emergency-rooms/) · **Source: Nature Communications** (https://www.nature.com/articles/s41467-026-78768-3)

AI drafts of heart ultrasound reports match human drafts and nearly halve reading time

In a randomized Kaiser Permanente study of 1,200 echocardiograms, AI-drafted preliminary reports were as accurate as those from sonographers and cardiologists and cut review time from 8.5 to 4.6 minutes.

Nov 11, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/ai-drafted-echocardiogram-reports-halve-cardiologist-reading-time/** (https://bloomer.news/stories/ai-drafted-echocardiogram-reports-halve-cardiologist-reading-time/) · **Source: American Heart Association** (https://newsroom.heart.org/news/ai-interpreted-echocardiograms-comparable-to-human-reports-cardiologists-time-cut-by-about-50)

Google DeepMind's AlphaProof Code mathematically verifies the Signal protocol's code

AI agents working with human experts produced machine-checked proofs that the code behind the Signal protocol, which protects billions of private messages, meets its key security goals.

Nov 11, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/deepmind-alphaproof-code-verifies-signal-protocol/** (https://bloomer.news/stories/deepmind-alphaproof-code-verifies-signal-protocol/) · **Source: Google DeepMind** (https://deepmind.google/blog/introducing-alphaproof-code/)

MIT and CMU's Workspace Models give robots a fast, compact memory for complex chores

Large vision-language models do their reasoning offline and teach a small module what to remember, letting a robot arm react in milliseconds and succeed about 92 percent of the time on a memory task.

Nov 11, 2026 · AI in Robotics · Bloomer: **https://bloomer.news/stories/mit-csail-workspace-models-give-robots-fast-memory/** (https://bloomer.news/stories/mit-csail-workspace-models-give-robots-fast-memory/) · **Source: MIT CSAIL** (https://www.csail.mit.edu/news/new-form-memory-helps-robots-learn-complex-skills)

UChicago wins $10 million to bring AI weather forecasts to farmers in the tropics

A Laude Institute grant will help a UChicago team build a free, open-source AI Almanac so weather agencies in low- and middle-income countries can run forecasts tuned to local decisions like when to plant.

Nov 11, 2026 · AI for the Planet · Bloomer: **https://bloomer.news/stories/uchicago-ai-weather-forecasts-for-smallholder-farmers/** (https://bloomer.news/stories/uchicago-ai-weather-forecasts-for-smallholder-farmers/) · **Source: University of Chicago News** (https://news.uchicago.edu/story/uchicago-team-wins-10-million-laude-institute-grant-advance-ai-weather-forecasting-low-and)

DeepMind's AlphaGenome 2 shows how DNA changes affect specific human cells

Google DeepMind's AlphaGenome 2 predicts how genetic variants change gene activity in hundreds of human cell types, finding nearly twice as many causal variants as before.

Nov 12, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/deepmind-alphagenome-2-cell-specific-dna-effects/** (https://bloomer.news/stories/deepmind-alphagenome-2-cell-specific-dna-effects/) · **Source: Google DeepMind** (https://deepmind.google/blog/alphagenome-2-deciphering-how-cells-read-dna-to-better-understand-disease/)

MBZUAI releases PAN 2, an open world model that simulates what happens next

MBZUAI's Institute of Foundation Models released PAN 2 with weights and full training code, letting anyone build on a world model that turns a scene and an action into video.

Nov 12, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/mbzuai-pan-2-open-world-model/** (https://bloomer.news/stories/mbzuai-pan-2-open-world-model/) · **Source: MBZUAI** (https://mbzuai.ac.ae/news-events/news/the-institute-foundation-models-unveils-pan-2-open-world-model-physical)

Michigan's PRISM helps humanoid robots stay upright and grip objects more reliably

A small University of Michigan change to robot neural networks raised simulated humanoid walking success from 51% to 92.5% and real tape pickups from 68% to 94%.

Nov 12, 2026 · AI in Robotics · Bloomer: **https://bloomer.news/stories/michigan-prism-helps-robots-walk-and-grip-better/** (https://bloomer.news/stories/michigan-prism-helps-robots-walk-and-grip-better/) · **Source: Michigan Engineering** (https://news.engin.umich.edu/2026/11/prism-a-neural-network-component-for-better-robotic-motor-control/)

MIT method builds faster, more reliable AI climate emulators with far less data

MIT researchers created a training method that lets AI climate emulators predict unfamiliar scenarios accurately while needing only one run of a full Earth system model.

Nov 12, 2026 · AI for the Planet · Bloomer: **https://bloomer.news/stories/mit-faster-trustworthy-ai-climate-emulators/** (https://bloomer.news/stories/mit-faster-trustworthy-ai-climate-emulators/) · **Source: MIT News** (https://news.mit.edu/2026/new-research-could-lead-faster-trustworthy-ai-models-climate-prediction-1112)

CMU and Pitt use AI to design molecular tools that reach specific brain cells

With NIH support, Carnegie Mellon and University of Pittsburgh researchers are pairing AI design with fast lab screening to build precise tools for studying and someday treating brain disorders like depression.

Nov 13, 2026 · AI for Health · Bloomer: **https://bloomer.news/stories/cmu-pitt-ai-designed-tools-to-target-brain-cells/** (https://bloomer.news/stories/cmu-pitt-ai-designed-tools-to-target-brain-cells/) · **Source: Carnegie Mellon University** (https://www.cmu.edu/ni/news-events/2026/cmu-researchers-develop-tools-target-brain-disorders)

Google launches Gemini 4 Hydrogen, a fast model for everyday coding and agent work

Google says Gemini 4 Hydrogen finishes tasks about 2.5 times faster than Gemini 3.8 Flash and cuts fabricated claims by more than 5x, and it is rolling out to developers, businesses and Search users.

Nov 13, 2026 · AI Models · Bloomer: **https://bloomer.news/stories/google-gemini-4-hydrogen-fast-model-for-everyone/** (https://bloomer.news/stories/google-gemini-4-hydrogen-fast-model-for-everyone/) · **Source: Google** (https://blog.google/innovation-and-ai/models-and-research/gemini-models/introducing-gemini-4-hydrogen/)

MIT's AI copilot lets engineers steer structural designs as they take shape

An MIT system flags the parts of an algorithm-generated structure an engineer would likely want to change, producing stronger, easier to build designs with about 15 extra seconds of work.

Nov 13, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/mit-ai-copilot-helps-engineers-design-better-structures/** (https://bloomer.news/stories/mit-ai-copilot-helps-engineers-design-better-structures/) · **Source: MIT News** (https://news.mit.edu/2026/new-ai-copilot-helps-engineers-design-better-structures-1113)

Nextflow Frontier lets AI run days of experiments to find better biology models

Nextflow says its new closed-loop discovery system, which tests ideas for a median of 62 hours per task, beat leading AI science systems on the public BioML-bench benchmark.

Nov 13, 2026 · AI for Science · Bloomer: **https://bloomer.news/stories/nextflow-frontier-ai-discovery-system-biology-benchmark/** (https://bloomer.news/stories/nextflow-frontier-ai-discovery-system-biology-benchmark/) · **Source: Nextflow (PR Newswire)** (https://www.prnewswire.com/news-releases/nextflow-frontier-develops-discovery-system-to-solve-sciences-most-complex-problems-with-breakthrough-results-302937312.html)

Brookhaven AI learns on its own to pull particle jets out of collision noise

An unsupervised AI method from Brookhaven Lab reconstructs particle jets more accurately than standard techniques, sharpening studies of the early universe's quark-gluon plasma.

Nov 14, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/brookhaven-ai-separates-particle-jets-from-collision-noise/** (https://bloomer.news/stories/brookhaven-ai-separates-particle-jets-from-collision-noise/) · **Source: Brookhaven National Laboratory** (https://www.bnl.gov/newsroom/news.php?a=123018)

Google DeepMind opens the rainfall and satellite datasets behind its AI weather model

DeepMind released PARDIG, an AI global rainfall map, and SatWeave, a live satellite mosaic, so anyone can build weather, flood and climate tools.

Nov 14, 2026 · AI for the Planet · Bloomer: **https://bloomer.news/stories/deepmind-opens-pardig-satweave-weather-datasets/** (https://bloomer.news/stories/deepmind-opens-pardig-satweave-weather-datasets/) · **Source: Google DeepMind** (https://deepmind.google/blog/opening-the-datasets-behind-our-ai-weather-models/)

Georgia Tech and OpenAI show how test scoring pushes AI to guess, and how to fix it

A Nature study finds AI evaluations punish 'I don't know' as harshly as wrong answers, encouraging guessing, and proposes open scoring rubrics to curb hallucinations.

Nov 14, 2026 · AI Safety · Bloomer: **https://bloomer.news/stories/georgia-tech-openai-why-ai-models-hallucinate/** (https://bloomer.news/stories/georgia-tech-openai-why-ai-models-hallucinate/) · **Source: Georgia Tech Research News** (https://news.research.gatech.edu/2026/11/13/mathematics-ai-safety)

Google's teams of AI agents help researchers crack long-open math and chemistry problems

Working with university partners, Google's multi-agent /teamwork tools helped prove an information theory conjecture and identify molecules from NMR data, and are now open to outside researchers.

Nov 14, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/google-antigravity-teamwork-agents-solve-open-problems/** (https://bloomer.news/stories/google-antigravity-teamwork-agents-solve-open-problems/) · **Source: Google Research** (https://research.google/blog/advancing-science-engineering-with-antigravitys-teamwork-feature/)

AI chart review helps Cleveland Clinic study how long replacement heart valves last

NVIDIA highlighted Dyania Health's Synapsis AI, which reviewed records of more than 7,800 valve replacement patients for a Cleveland Clinic study, with clinicians making every decision.

Nov 15, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/ai-chart-review-cleveland-clinic-heart-valve-study/** (https://bloomer.news/stories/ai-chart-review-cleveland-clinic-heart-valve-study/) · **Source: NVIDIA Blog** (https://blogs.nvidia.com/blog/how-ai-is-helping-care-teams/)

Cambridge physicists use an AI coding agent to discover faster particle collision math

In a Cambridge proof of concept, an AI coding agent searched for better ways to compute particle scattering amplitudes and found one 805 times faster than its starting code.

Nov 15, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/cambridge-ai-agent-finds-faster-particle-physics-math/** (https://bloomer.news/stories/cambridge-ai-agent-finds-faster-particle-physics-math/) · **Source: Physics World** (https://physicsworld.com/a/ai-agents-act-as-search-tool-for-more-efficient-collider-physics-calculations/)

Harvard's NoR-AI pairs a light-based microscope with AI to reveal hidden detail in tissue

Harvard Medical School researchers built NoR-AI, which combines Raman imaging with a neural network to map protein, lipid and water in tissue in about 30 minutes.

Nov 15, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/harvard-nor-ai-reveals-lipids-in-tissue/** (https://bloomer.news/stories/harvard-nor-ai-reveals-lipids-in-tissue/) · Source: **Harvard Medical School** (https://hms.harvard.edu/news/ai-assisted-imaging-method-advances-150-year-old-technique-studying-tissue)

AlphaFold helps a graduate student pin down a protein that keeps kidney filters sealed

Using AlphaFold's prediction of how a kidney protein pairs up, a PhD student designed a zebrafish experiment that found a region needed for healthy kidney filter cells.

Nov 15, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/mdi-alphafold-kidney-filter-protein/** (https://bloomer.news/stories/mdi-alphafold-kidney-filter-protein/) · Source: **MDI Biological Laboratory** (https://mdibl.org/a-graduate-student-tackles-a-kidney-puzzle-aided-by-ai/)

AI heart MRI measurements predict survival slightly better than experts, in seconds

A Lancet Digital Health study of 27,382 patients found AI-measured ejection fraction from cardiac MRI was slightly better linked to survival than clinician measurements.

Nov 16, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/ai-cardiac-mri-ejection-fraction-predicts-survival/** (https://bloomer.news/stories/ai-cardiac-mri-ejection-fraction-predicts-survival/) · Source: **Medical News Today** (https://www.medicalnewstoday.com/articles/ai-could-improve-doctors-ability-predict-survival-using-heart-scans)

KAIST AI reads speech from lip movements alone with record accuracy

A KAIST team used a diffusion language model that decodes the clearest words first, reaching a 19.4% word error rate on the LRS3 lip-reading benchmark.

Nov 16, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/kaist-ai-reads-lips-record-accuracy/** (https://bloomer.news/stories/kaist-ai-reads-lips-record-accuracy/) · Source: **DongA Science** (https://www.dongascience.com/en/news/80883)

A physicist and GPT-6 Astra propose a lattice definition of the Standard Model

UC Santa Barbara physicist Nathaniel Craig describes how GPT-6 Astra helped turn his idea into a proof for a candidate lattice definition of the Standard Model.

Nov 16, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/openai-gpt-6-astra-helps-physicist-define-standard-model-lattice/** (https://bloomer.news/stories/openai-gpt-6-astra-helps-physicist-define-standard-model-lattice/) · Source: **OpenAI** (https://openai.com/index/step-toward-defining-the-standard-model)

Brain implants help people with paralysis speak with expression, and one woman sing

At Neuroscience 2026, teams showed brain-computer interfaces that carry pitch in a synthetic voice, let a locked-in person communicate for over a year, and decode text on an iPhone.

Nov 16, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/sfn-brain-computer-interfaces-restore-expressive-voice/** (https://bloomer.news/stories/sfn-brain-computer-interfaces-restore-expressive-voice/) · **Source: Society for Neuroscience via Medical Xpress** (https://medicalxpress.com/news/2026-11-brain-interfaces-voice-people-paralysis.html)

Materials AI can drop 90% of its training data and stay accurate, study finds

Michigan Tech and UCLA researchers found AI models predicting electronic structure kept nearly full accuracy after discarding 90% of training data, and trained at least three times faster.

Nov 17, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/michigan-tech-materials-ai-needs-far-less-data/** (https://bloomer.news/stories/michigan-tech-materials-ai-needs-far-less-data/) · **Source: Michigan Technological University** (https://www.mtu.edu/news/2026/11/less-data-faster-discovery-researchers-rethink-ais-role-in-developing-new-materials.html)

Microsoft Research's TokenEconomizer helps coding agents learn from past work and cost less

An open-source plugin from UC Berkeley and Microsoft lowered AI coding agent costs by 18.4% to 30.9% across 277 real bug-fixing tasks while success rates stayed broadly stable.

Nov 17, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/microsoft-tokeneconomizer-cheaper-coding-agents/** (https://bloomer.news/stories/microsoft-tokeneconomizer-cheaper-coding-agents/) · **Source: Microsoft Research** (https://www.microsoft.com/en-us/research/blog/tokeneconomizer-learning-from-experience-to-make-ai-coding-agents-more-efficient/)

NVIDIA releases Nemotron for Science, open tools for building research agents

NVIDIA introduced Nemotron for Science, pairing its open Nemotron 3.5 Super VL model with LitmusBench v0.2, an open chemistry dataset of nearly 50,000 questions, and post-training recipes.

Nov 17, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/nvidia-nemotron-for-science-open-chemistry-dataset/** (https://bloomer.news/stories/nvidia-nemotron-for-science-open-chemistry-dataset/) · **Source: NVIDIA Newsroom** (https://nvidianews.nvidia.com/news/nvidia-introduces-nemotron-for-science-to-accelerate-discoveries-with-agents)

OpenScientist, an open AI co-scientist, finishes months of biomedical analysis in minutes

Washington University researchers describe OpenScientist, an open-source agentic AI that domain experts tested on five biomedical case studies, including Alzheimer's blood biomarkers.

Nov 17, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/openscientist-open-ai-co-scientist-nature-medicine/** (https://bloomer.news/stories/openscientist-open-ai-co-scientist-nature-medicine/) · **Source: Nature Medicine** (https://www.nature.com/articles/s41591-026-04808-6)

Arc Institute releases AI tools that forecast virus mutations and design antibodies for them

Arc Institute's antiGen learns from phylogenetic trees to predict future viral mutations, and Germinal Multi designs one antibody that holds up across many variants.

Nov 18, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/arc-institute-antigen-germinal-multi-future-variants/** (https://bloomer.news/stories/arc-institute-antigen-germinal-multi-future-variants/) · Source: **Arc Institute** (https://arcinstitute.org/news/antigen-and-germinal-multi)

ELFNet predicts chemical bonding 350 times faster to speed up materials discovery

CSUN chemists built ELFNet, an image-to-image neural network that predicts complex electron localization maps 350 times faster than full quantum simulations.

Nov 18, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/csun-elfnet-predicts-chemical-bonding-faster/** (https://bloomer.news/stories/csun-elfnet-predicts-chemical-bonding-faster/) · Source: **California State University, Northridge** (https://newsroom.csun.edu/2026/11/17/csun-researchers-use-hardcore-ai-model-to-take-big-step-in-field-of-materials-science/)

A new coral AI reads reef images 1,000 times faster to help restore reefs

HKUST launched a Center for Marine Intelligence and an AI that segments full reef images over 1,000 times faster than manual point sampling, tested in the Red Sea and Hong Kong.

Nov 18, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/hkust-coral-ai-reef-monitoring/** (https://bloomer.news/stories/hkust-coral-ai-reef-monitoring/) · Source: **Hong Kong University of Science and Technology** (https://hkust.edu.hk/news/hkust-establishes-center-marine-intelligence-and-partners-kaust-launch-inaugural-ai4coral)

An AI tool maps how people walk across a whole city from just a few sensors

Loughborough researchers built GPAE, a machine learning framework that accurately predicts pedestrian activity across an entire town using data from only 29 monitoring sites.

Nov 18, 2026 · AI for Good · Bloomer: **https://bloomer.news/stories/loughborough-gpae-predicts-city-footfall/** (https://bloomer.news/stories/loughborough-gpae-predicts-city-footfall/) · Source: **Loughborough University** (https://www.lboro.ac.uk/media-centre/press-releases/2026/november/footfall-tool/)

An AI tool reads T cells to predict who will respond to cancer immunotherapy

MSK researchers built TCRi, an information theory model that analyzed more than 167,000 T cells to spot which patients are likely to respond to immunotherapy.

Nov 18, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/msk-tcri-predicts-immunotherapy-response/** (https://bloomer.news/stories/msk-tcri-predicts-immunotherapy-response/) · Source: **Memorial Sloan Kettering Cancer Center** (https://www.technologynetworks.com/informatics/news/ai-tool-predicts-cell-behavior-to-advance-immunotherapy-418340)

AI text detectors that keep learning after release catch far more disguised writing

MIT and Cornell researchers used test-time adaptation so a deployed detector adjusts to new, unlabeled text, raising detection of disguised AI writing from about 27% to over 93%.

Nov 19, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/mit-cornell-ai-text-detectors-adapt-on-the-fly/** (https://bloomer.news/stories/mit-cornell-ai-text-detectors-adapt-on-the-fly/) · **Source: MIT News** (https://news.mit.edu/2026/helping-ai-text-detectors-keep-up-with-changing-conditions-1118)

OpenAI's models found real efficiency gains in production chip designs with AMD

OpenAI says its models rewrote chip circuit code to deliver up to 14% power, performance and area gains on AMD's flagship GPU IP, and some changes are already headed to manufacturing.

Nov 19, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/openai-models-improve-amd-chip-designs/** (https://bloomer.news/stories/openai-models-improve-amd-chip-designs/) · **Source: OpenAI** (https://openai.com/index/advancing-chip-design-with-our-models/)

A smart ring uses light and on-device AI to spot stress in real time

USC engineers built a ring that reads sweat activity under the skin with near-infrared light and runs AI on the device, beating electrode-based stress sensors in tests.

Nov 19, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/usc-ai-ring-detects-stress-with-light/** (https://bloomer.news/stories/usc-ai-ring-detects-stress-with-light/) · **Source: USC Viterbi School of Engineering** (https://viterbischool.usc.edu/news/2026/11/usc-engineers-develop-ai-powered-ring-that-detects-stress-with-light/)

Virginia Tech tests open satellite AI to see where farm conservation is working

Virginia Tech and University of Maryland researchers are testing Ai2's open OlmoEarth model to map cover crops and tillage field by field from satellite images.

Nov 19, 2026 · AI for the Planet · Bloomer: **https://bloomer.news/stories/virginia-tech-olmoearth-tracks-farm-conservation/** (https://bloomer.news/stories/virginia-tech-olmoearth-tracks-farm-conservation/) · **Source: Virginia Tech News** (https://news.vt.edu/articles/2026/11/cals-benami.html)

AI reading routine chest X-rays found 209 hidden cancers across 41 hospitals

A real-world study in Poland, the Czech Republic, Hungary and Romania used AI to check nearly 495,000 routine chest X-rays and found 209 previously undiagnosed malignancies.

Nov 20, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/carebot-ai-chest-xrays-find-hidden-lung-cancers/** (https://bloomer.news/stories/carebot-ai-chest-xrays-find-hidden-lung-cancers/) · **Source: ASCO AI in Oncology** (https://ascoai.org/articles/2026/11/ai-assisted-routine-chest-x-rays-may-expand-opportunities-for-lung-cancer-detection/)

A portable box lets Malawi run its own AI weather forecasts

ECMWF, MET Norway and Malawi's weather service are piloting Forecast-in-a-Box, open software that runs pretrained AI weather models on desktop-class machines.

Nov 20, 2026 · AI for the Planet · Bloomer: **https://bloomer.news/stories/ecmwf-forecast-in-a-box-malawi-ai-weather/** (https://bloomer.news/stories/ecmwf-forecast-in-a-box-malawi-ai-weather/) · **Source: ECMWF** (https://www.ecmwf.int/en/about/media-centre/news/2026/forecast-box-piloting-portable-solution-running-ai-weather-forecasts)

A family idea became an AI tool that makes Easy Read documents in minutes

Mencap and Google DeepMind launched a Gemini-powered tool that drafts Easy Read materials for people with learning disabilities in minutes, with people checking every output.

Nov 20, 2026 · AI for Good · Bloomer: **https://bloomer.news/stories/mencap-deepmind-easy-read-ai-tool/** (https://bloomer.news/stories/mencap-deepmind-easy-read-ai-tool/) · **Source: Learning Disability Today** (https://www.learningdisabilitytoday.co.uk/news/mencap-launches-new-ai-easy-read-tool-to-make-information-more-accessible/)

Texas A&M's AI virtual cell explains why a disease happens, not just if

Texas A&M engineers built PertReason, an AI virtual cell model that predicts how genetic changes and drugs alter cells and traces the biological pathways behind those effects.

Nov 20, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/texas-am-pertreason-ai-virtual-cell/** (https://bloomer.news/stories/texas-am-pertreason-ai-virtual-cell/) · **Source: Texas A&M Engineering** (https://news.engineering.tamu.edu/news/2026/11/19/researchers-develop-ai-to-help-understand-and-treat-disease/)

A mathematician says he and Claude proved the Riemann hypothesis, and early checks of the code pass

Levent Alpöge, a mathematician at Anthropic, says he found a proof of the generalized Riemann hypothesis working with Claude. Independent academics report the formal Lean proof compiles, though understanding it may take years.

Nov 21, 2026 · Science · Bloomer: **https://bloomer.news/stories/claude-assisted-riemann-hypothesis-proof-claim/** (https://bloomer.news/stories/claude-assisted-riemann-hypothesis-proof-claim/) · **Source: Science** (https://www.science.org/content/article/ai-may-have-solved-math-s-greatest-mystery-can-humans-understand-answer)

MIT finds a way to keep AI weather and turbulence models from drifting into the impossible

MIT researchers added an energy-based physical constraint to machine learning models of chaotic systems, guaranteeing long-range predictions stay within realistic bounds, which could make climate and turbulence forecasts more reliable.

Nov 21, 2026 · Climate · Bloomer: **https://bloomer.news/stories/mit-physics-constrained-ai-chaotic-systems/** (https://bloomer.news/stories/mit-physics-constrained-ai-chaotic-systems/) · **Source: MIT News** (https://news.mit.edu/new-approach-enables-physically-consistent-ai-models-chaotic-systems-1120)

An AI-assisted brain cap helps people say what they mean nearly twice as fast

Rutgers engineers paired an EEG cap with a local language model that suggests words and phrases, letting users communicate nearly twice as fast as a conventional predictive speller, with ALS patient trials planned.

Nov 21, 2026 · Health · Bloomer: **https://bloomer.news/stories/rutgers-chatbci-assist-noninvasive-brain-communication/** (https://bloomer.news/stories/rutgers-chatbci-assist-noninvasive-brain-communication/) · **Source: Rutgers University** (https://www.rutgers.edu/news/how-rutgers-engineers-made-noninvasive-brain-computer-communication-system)

Stanford's AI bedside video system watches around the clock for early signs of ICU delirium

Stanford researchers built TRACER, an AI system that combines continuous ICU video with health records so clinicians can track behavior changes linked to delirium, which often goes unnoticed between brief checks.

Nov 21, 2026 · Health · Bloomer: **https://bloomer.news/stories/stanford-tracer-ai-video-icu-delirium/** (https://bloomer.news/stories/stanford-tracer-ai-video-icu-delirium/) · **Source: Stanford HAI** (https://hai.stanford.edu/news/ai-enabled-video-system-monitors-icu-patients-for-early-signs-of-delirium)

An AI that learned from tumor slides and their genes outperforms leading pathology models on 107 tasks

THREADS, a foundation model trained to match tissue images with their genomic and transcriptomic profiles, beat leading whole-slide models across 107 cancer tasks, including subtyping, treatment response and survival.

Nov 21, 2026 · Health · Bloomer: **https://bloomer.news/stories/threads-ai-links-tumor-images-and-genes/** (https://bloomer.news/stories/threads-ai-links-tumor-images-and-genes/) · **Source: Nature Cancer** (https://www.nature.com/articles/s43018-026-01252-w)

Scientists wire a fruit fly's full brain map to a virtual body to learn how neurons drive movement

At the Society for Neuroscience meeting, a Janelia-led team showed a digital fruit fly whose body is linked to its complete neural wiring map, letting machine learning models predict how neurons orchestrate walking and turning.

Nov 22, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/connectome-virtual-fruit-fly-body-model/** (https://bloomer.news/stories/connectome-virtual-fruit-fly-body-model/) · **Source: Science** (https://www.science.org/content/article/scientists-control-virtual-fruit-fly-map-insect-s-brain)

AI spots hidden warning signs of bladder cancer in health records, sometimes years before diagnosis

University of Plymouth researchers built PRECISE-AGZ, an AI model that reads electronic health records and correctly identified 85% of bladder cancer patients, outperforming current NHS referral guidelines in a study of nearly 70,000 people.

Nov 22, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/plymouth-ai-flags-bladder-cancer-years-early/** (https://bloomer.news/stories/plymouth-ai-flags-bladder-cancer-years-early/) · **Source: ScienceDaily (University of Plymouth)** (https://www.sciencedaily.com/releases/2026/11/261120075604.htm)

A virtual scientist called RhoAgent designs working RNA molecules and improves them with lab feedback

A team led by CUHK's Yu Li, with MIT's James Collins, built RhoAgent, an agentic AI that turns plain-language goals into 3D RNA designs. Reported in Nature Biotechnology, it boosted one ribozyme's activity about sixfold and an aptamer's glow by 230%.

Nov 22, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/rhoagent-virtual-scientist-designs-functional-rna/** (https://bloomer.news/stories/rhoagent-virtual-scientist-designs-functional-rna/) · **Source: CUHK Computer Science and Engineering** (https://www.cse.cuhk.edu.hk/news/rhoagent-a-virtual-scientist-for-the-programmable-design-of-functional-rna/)

TensorLean mathematically proves AI's core GPU code is correct, and finds bugs that testing missed

Researchers at Columbia University and CertiK introduced TensorLean, which uses the Lean proof assistant to verify compiled GPU kernels. They checked 149 real kernel instances, proved 83 correct and found 38 bugs that had slipped past testing.

Nov 22, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/tensorlean-formally-verifies-production-gpu-kernels/** (https://bloomer.news/stories/tensorlean-formally-verifies-production-gpu-kernels/) · **Source: TensorLean (Columbia University and CertiK)** (https://tensorlean.ai/)

AI learns to tell individual wild birds apart by their songs, tracking 405 ovenbirds over four years

A machine learning method identifies individual birds from passive audio recordings with 96% accuracy on birds it never saw in training, letting ecologists follow 405 male ovenbirds across 126 sites for four years without catching or tagging them.

Nov 23, 2026 · AI for the Planet · Bloomer: **https://bloomer.news/stories/ai-identifies-individual-ovenbirds-by-song/** (https://bloomer.news/stories/ai-identifies-individual-ovenbirds-by-song/) · **Source: Nature Methods** (https://www.nature.com/articles/s41592-026-03406-1)

World's largest AI breast screening trial opens to nearly 700,000 women in the UK

The 10 million pound EDITH trial, co-led by Cambridge and Warwick, will test whether an AI tool can help radiologists read mammograms for nearly 700,000 women across 30 UK screening sites, with every image still checked by a human.

Nov 23, 2026 · AI in Health · Bloomer: **https://bloomer.news/stories/edith-trial-ai-breast-screening-700000-women/** (https://bloomer.news/stories/edith-trial-ai-breast-screening-700000-women/) · **Source: University of Cambridge** (https://www.cam.ac.uk/research/news/cambridge-co-leading-worlds-largest-trial-to-use-ai-to-help-detect-breast-cancers-earlier)

AI shortcut helps scientists simulate the entire Milky Way star by star at record detail

Researchers from the University of Tokyo and RIKEN built PHEASANT, a whole-galaxy simulation that resolves individual stars by using an AI model to predict how gas evolves after supernovae, making it about 20 times faster across three supercomputers.

Nov 23, 2026 · AI in Science · Bloomer: **https://bloomer.news/stories/milky-way-star-by-star-simulation-ai-supernova/** (https://bloomer.news/stories/milky-way-star-by-star-simulation-ai-supernova/) · **Source: Phys.org (University of Tokyo)** (https://phys.org/news/2026-11-milky-simulation-resolution-supercomputers.html)

MIT trains a laptop-sized AI model to design analog chips nearly as well as frontier models

MIT researchers built SLIC, a training method that teaches a small language model of a few billion parameters to design analog circuits nearly as well as a frontier model, running locally so companies can keep their chip data private.

Nov 23, 2026 · AI Research · Bloomer: **https://bloomer.news/stories/mit-slic-small-ai-model-designs-analog-chips/** (https://bloomer.news/stories/mit-slic-small-ai-model-designs-analog-chips/) · **Source: MIT News** (https://news.mit.edu/2026/ai-driven-technique-could-help-engineers-design-analog-chips-faster-and-less-expensive-1123)

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