



Nobel Prize in economics awarded to Mokyr, Aghion and Howitt for explaining 'innovation-driven' growth

Joel Mokyr, Philippe Aghion and Peter Howitt won the Nobel memorial prize in economics Monday for their research into the impact of innovation on economic growth and how new technologies replace older ones, a key economic concept known as "creative destruction."

 [edition.cnn.com](#)


ARTIFICIAL INTELLIGENCE



STATE OF AI REPORT.

October 9, 2025

Nathan Benaich

AIR STREET CAPITAL.
[stateof.ai](#)
[airstreet.com](#)

The State of AI 2025: Insights from Nathan Benaich at Air Street Capital

The State of AI Report is the most widely read and trusted analysis of key developments in AI. Published annually since 2018, the open-access report aims to spark informed conversation about the state of AI and what it means for the future. Produced by AI investor Nathan Benaich and Air Street...

 [youtube.com](#)


ENERGY



How Much Energy Does It Take to Power Billions of AI Queries?

AI energy use is skyrocketing as ChatGPT alone handles 2.5 billion queries each day. See what it adds up to for all generative AI, both now and in 2030.

 [spectrum.ieee.org](#)


LIFE SCIENCES



Cell2Sentence Scale 27B

How a Gemma model helped discover a new potential cancer therapy pathway

C2S-Scale 27B, a new foundation model built on Gemma AI and validated in the lab, is transforming single-cell analysis and may help provide a novel pathway for cancer therapy.

 [blog.google](#)

A built-in 'off switch' to stop persistent pain

J. Nicholas Betley has led collaborative research seeking the neural basis of long-term sustained pain and finds that a critical hub in the brainstem holds a mechanism for stopping pain signals from reaching the rest of the brain. Their findings could help clinicians better understand chronic pain...

 [penntoday.upenn.edu](#)


How ultrasound is ushering a new era of surgery-free cancer treatment

Ultrasound has long been used for helping doctors see inside the body, but focused high frequency sound waves are offering new ways of targeting cancer.

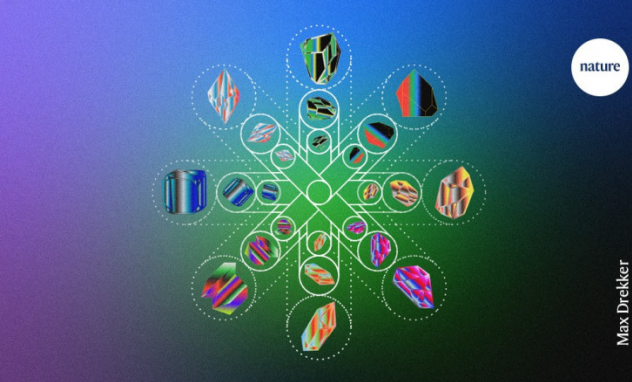
 [bbc.com](#)


The next revolution in biology isn't reading life's code - it's writing it

It's time to write the human genome, argues microbiologist Andrew Hessel, cofounder of the Human Genome Project-write.

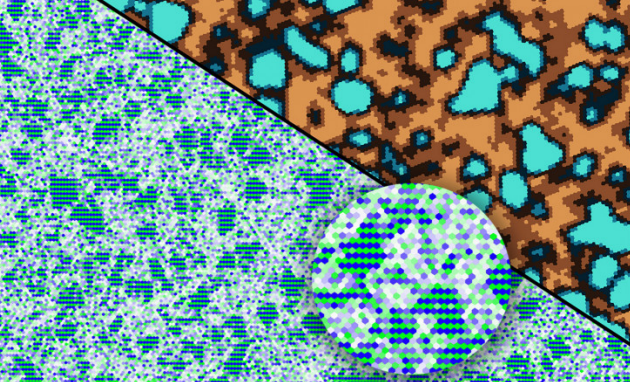
 [bigthink.com](#)


ADVANCED MATERIALS



AI is dreaming up millions of new materials. Are they any good?

Critics slammed attempts by Google, Microsoft and Meta to speed up materials discovery. But behind the hype, there is progress. Critics slammed attempts by Google, Microsoft and Meta to speed up materials discovery. But behind the hype, there is progress.

 [nature.com](#)


Printable aluminum alloy sets strength records, may enable lighter aircraft parts

MIT engineers have developed a recipe for a printable aluminum alloy that can withstand high temperatures and is five times stronger than traditionally manufactured aluminum.

 [news.mit.edu](#)


ROBOTICS



Xi, Robot

The number of industrial robots deployed in China between 2014-24 increased more than ten-fold, from 189,000 to 2 million.

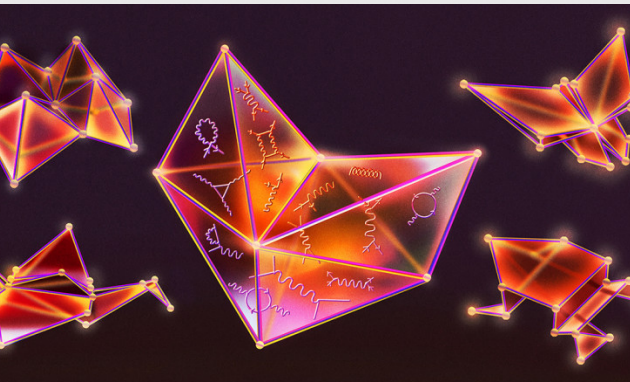
 [nationalreview.com](#)


IN THE LAB



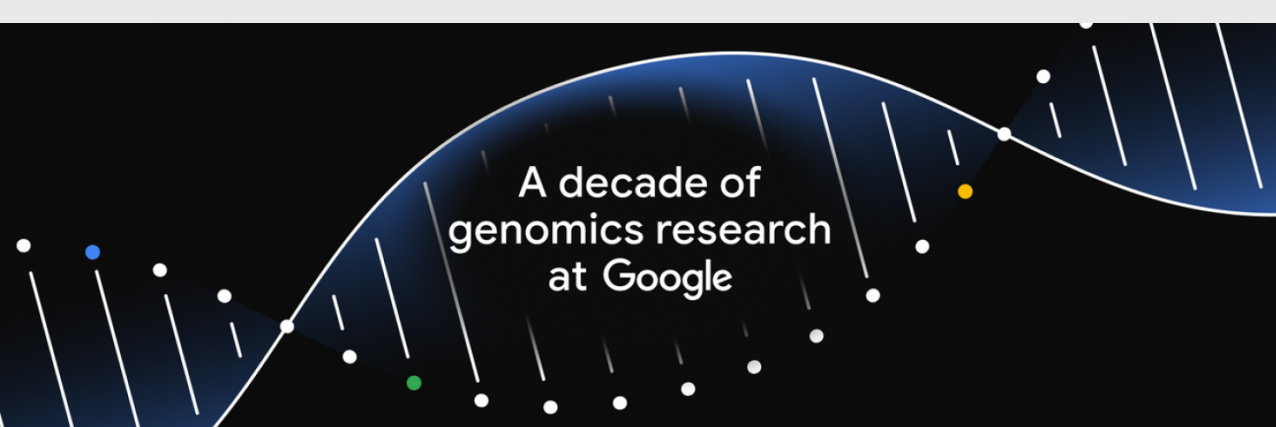
Researchers Discover the Optimal Way To Optimize

The leading approach to the simplex method, a widely used technique for balancing complex logistical constraints, can't get any better.

 [quantamagazine.org](#)


Origami Patterns Solve a Major Physics Riddle

The amplituhedron, a shape at the heart of particle physics, appears to be deeply connected to the mathematics of paper folding.

 [quantamagazine.org](#)


10 years of genomics research at Google

An overview of ten years of milestones and breakthroughs in Google's work on genomics.

 [blog.google](#)


AFTER HOURS



Are we living in a golden age of stupidity?

From brain-rotting videos to AI creep, every technological advance seems to make it harder to work, remember, think and function independently ...

 [theguardian.com](#)


Move over, Alan Turing: meet the working-class hero of Bletchley Park you didn't see in the movies

The Oxbridge-educated boffin is feted as the codebreaking genius who helped Britain win the war. But should a little-known Post Office engineer named Tommy Flowers be seen as the real father of computing?

 [theguardian.com](#)

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