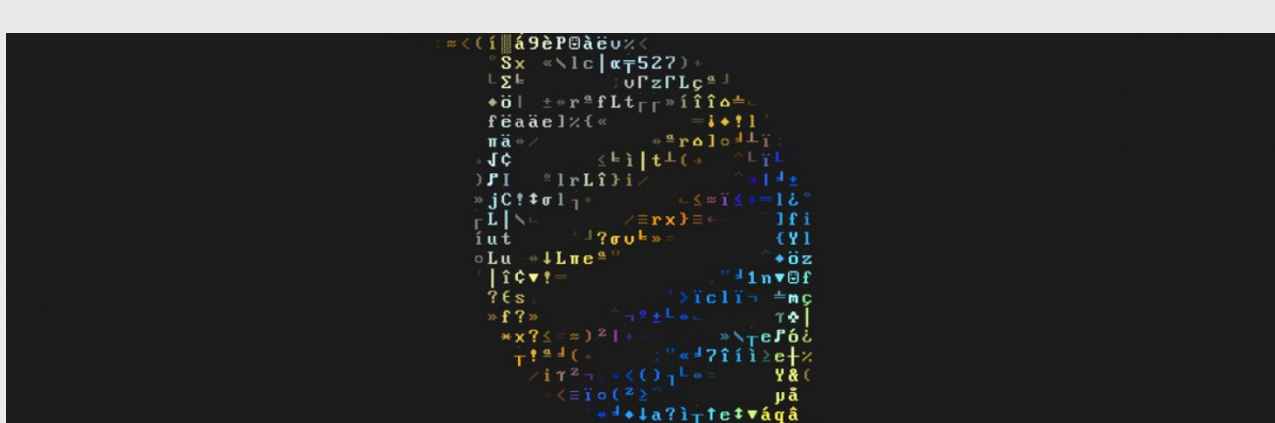


**The Universe Is Not Locally Real, and the Physics Nobel Prize Winners Proved It**  
Elegant experiments with entangled light have laid bare a profound mystery at the heart of reality

SA scientificamerica.com



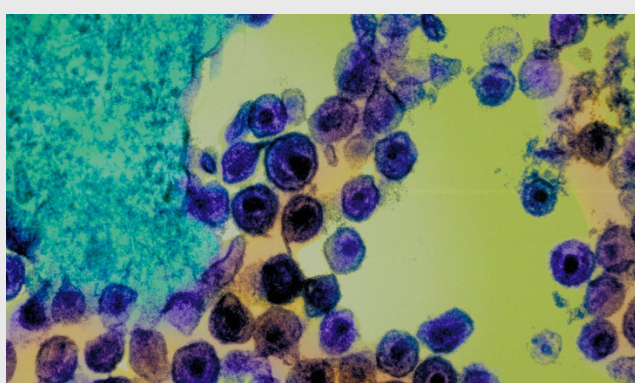
LIFE SCIENCES



**Starting a Revolution Isn't Enough**

CRISPR is changing the world—but it can do more.

theatlantic.com



**A Bold Effort to Cure HIV—Using Crispr**

An experiment tests whether the gene-editing technology can stop the virus from replicating, which would ultimately wipe out the infection.

wired.com



**Human genomics vs Clinical genomics**

We're now well over 20 years since the first human genome was sequenced, but with few exceptions the massive amount of data that has been generated has not been transformed to routine patient care.

erictopol.substack.com



ARTIFICIAL INTELLIGENCE



**Of God and Machines**

The future of artificial intelligence is neither utopian nor dystopian—it's something much more interesting.

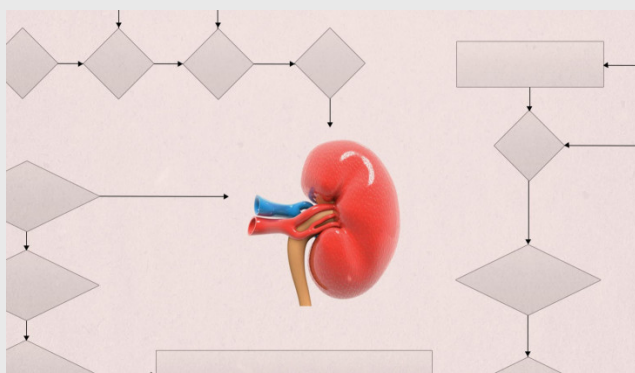
theatlantic.com



**Learning on the edge**

A new technique enables on-device training of machine-learning models on edge devices like microcontrollers, which have very limited memory. This could allow edge devices to continually learn from new data, eliminating data privacy issues, while enabling user customization.

news.mit.edu



**The Kidney Transplant Algorithm's Surprising Lessons for Ethical A.I.**

The kidney allocation score determines who gets a life-saving transplant. Here's how it was made.

slate.com



**Open AI Whisper - Open Source Translation and Transcription**

Open AI Whisper is an automatic speech recognition (ASR) system trained on 680,000 hours of multilingual and multitask supervised data collected from the web.

youtube.com



ENERGY



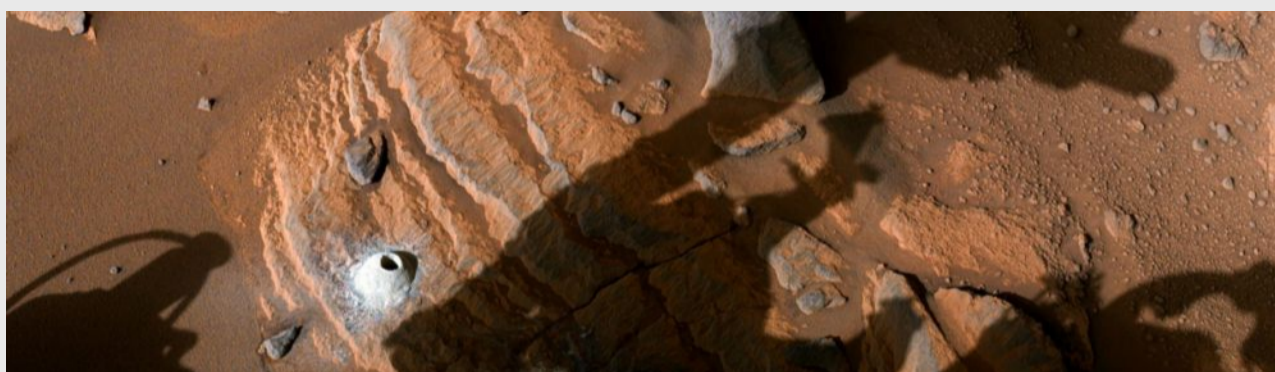
**Innovative MIT Passive Cooling System Works Without Electricity**

Relying on evaporation and radiation — but not electricity — the MIT passive cooling system could keep food fresh longer or supplement air conditioning in buildings.

scitechdaily.com



AEROSPACE



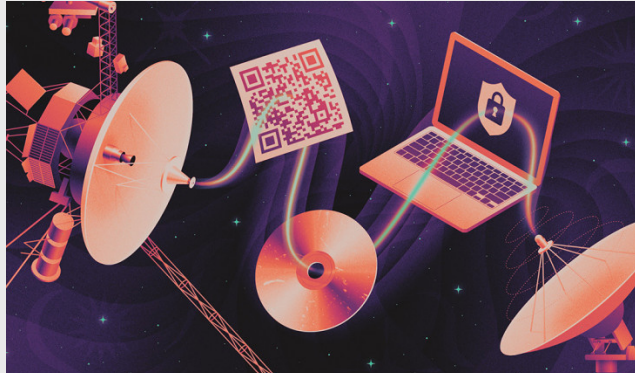
**Mars rover nears milestone in ambitious plan to return first rocks from another planet**

Perseverance set to drop organic-rich sample cache for pickup—and eventual scrutiny in terrestrial labs

science.org



IN THE LAB



**How Mathematical Curves Power Cryptography**

A simple geometric idea has been used to power advances in information theory, cryptography and even blockchain technology.

quantamagazine.org



**Scientists Have Long Dreamed of a Memory Prosthesis. The First Human Trials Look Promising**

The central idea is simple: replicate the hippocampus' signals with a digital replacement. It's no easy task.

singularityhub.com



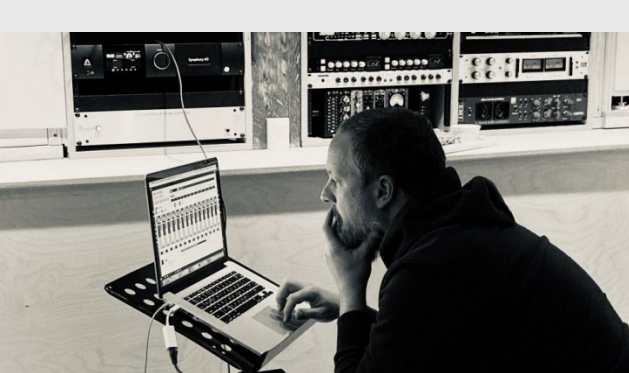
AFTER HOURS



**2022 Golden Goose Award Documentary Short Film**

The Golden Goose Award recognizes three teams of researchers whose silly, odd, or obscure sounding U.S. federally funded research has returned serious benefits to society.

youtube.com



**Math Meets Art in Greg Davis' "New Primes"**

The composer demonstrates the range of musical effects that can be created from mathematical relationships.

daily.bandcamp.com

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