

2022 World Changing Ideas Awards

See the 39 inspiring winners, and hundreds of honorees, of Fast Company's 2022 World Changing Ideas Awards.

[FC fastcompany.com](https://www.fastcompany.com)



WSJ | Documentary

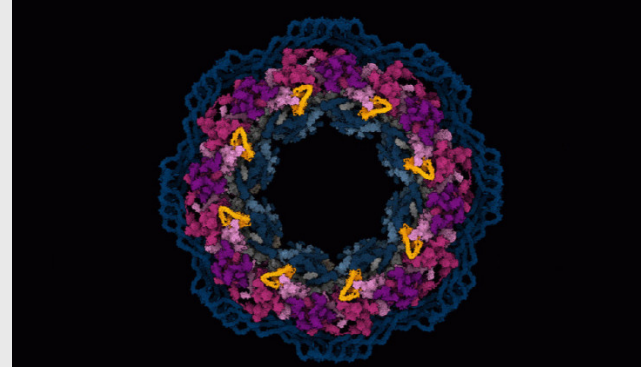
Why Global Supply Chains May Never Be the Same

Every day, millions of sailors, truck drivers, longshoremen, warehouse workers and delivery drivers keep mountains of goods moving into stores and homes to m...

[youtube.com](https://www.youtube.com)



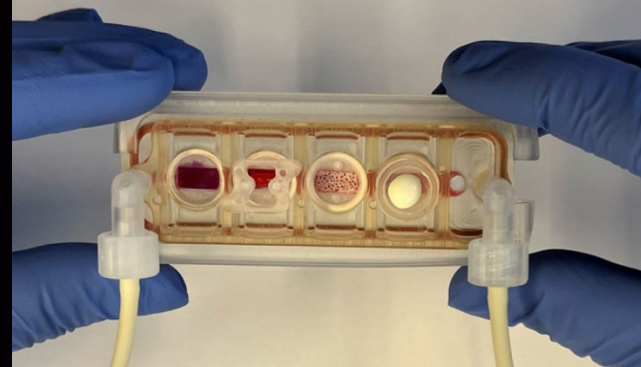
LIFE SCIENCES



What's next for AlphaFold and the AI protein-folding revolution

DeepMind software that can predict the 3D shape of proteins is already changing biology.

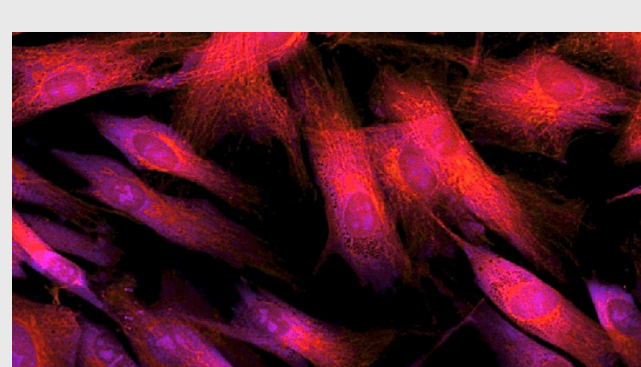
[nature.com](https://www.nature.com)



Patient-Personalized Multi Organ Chip Recapitulates Interdependent Organ Functions

Multi-organ chip is made of engineered human tissues, linked by vascular flow, to help model systemic diseases and drug effects.

[genengnews.com](https://www.genengnews.com)



Anti-ageing technique makes skin cells act 30 years younger

Skin cells have been exposed to molecules that reverse their development but still retain their function, creating a kind of stem cell that keeps its original function in the body

[NS newscientist.com](https://www.newscientist.com)



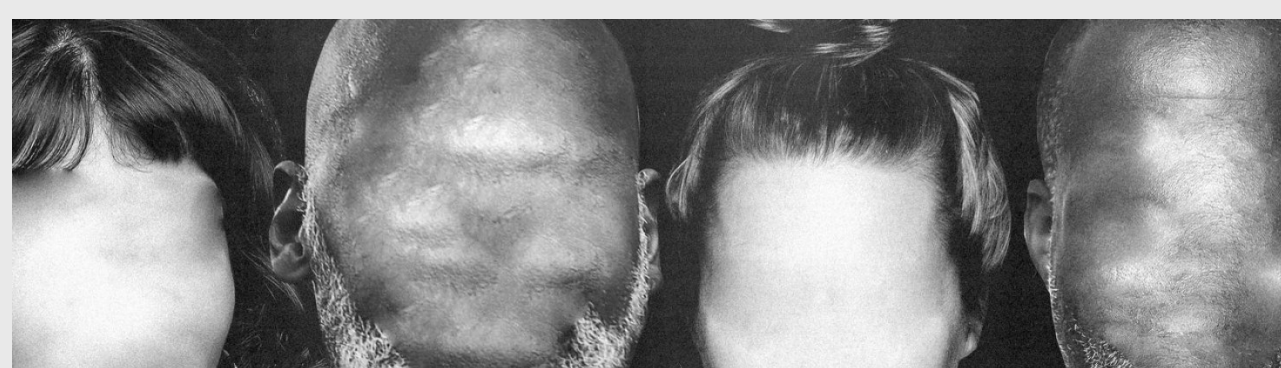
How Paxlovid came to be: From the germ of an idea to a vital tool against Covid

The story of Paxlovid is a reminder that the path from a biological idea to a useable medicine depends on thousands of decisions, any of which can result in the medicine not making it.

[statnews.com](https://www.statnews.com)



ARTIFICIAL INTELLIGENCE



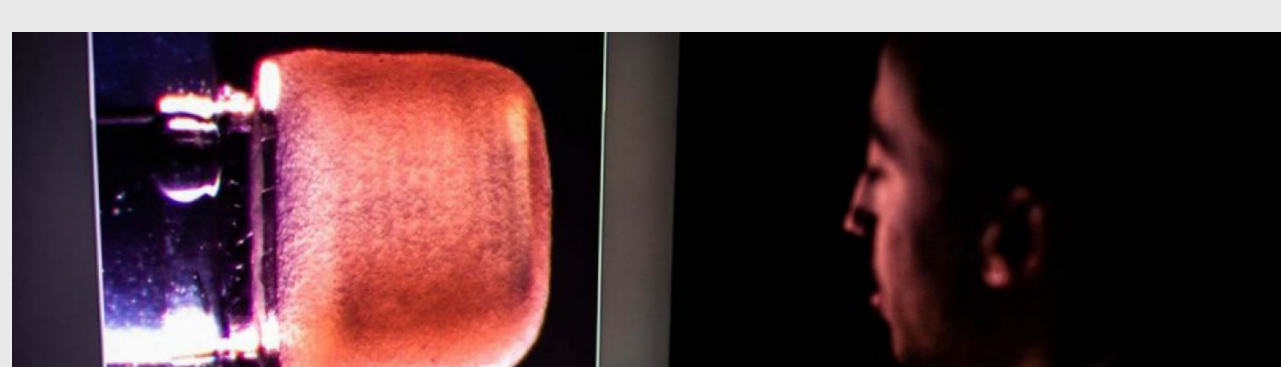
DALL-E 2 Creates Incredible Images—and Biased Ones You Don't See

OpenAI's new system is adept at turning text into images. But researchers say it also reinforces stereotypes against women and people of color.

[wired.com](https://www.wired.com)



3D PRINTING



Boston University's new 3D printed mini human heart beats on its own

A research team led by Boston University has used 3D printing technology to develop a miniature replica of a human heart.

[3dprintingindustry.com](https://www.3dprintingindustry.com)



VIRTUAL AND AUGMENTED REALITY



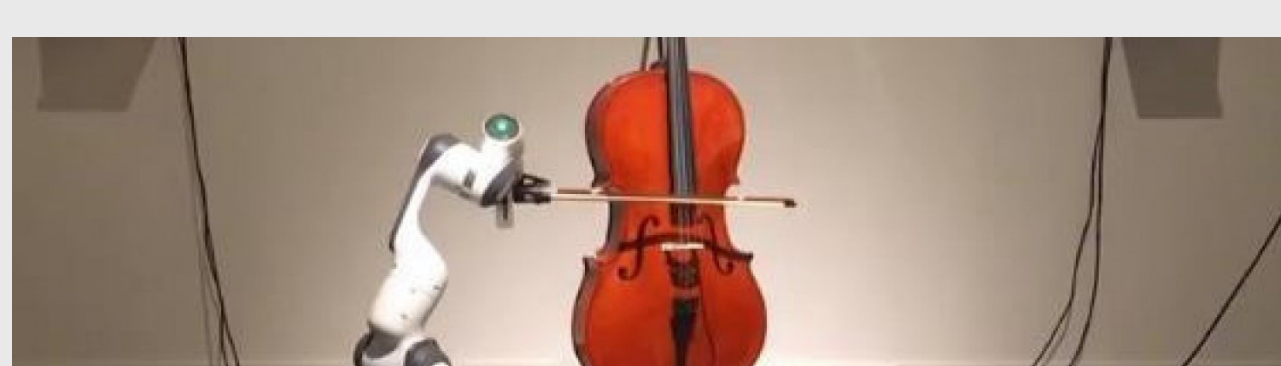
Innovative 3D Telemedicine to Help Keep Astronauts Healthy

Holoportation is a type of capture technology that allows high-quality 3D models of people to be reconstructed, compressed and transmitted live anywhere in real time.

[nasa.gov](https://www.nasa.gov)



ROBOTICS



A robot delicately learning to play the cello is about more than just music

I play, therefore I am?

[mashable.com](https://www.mashable.com)



CYBERSECURITY



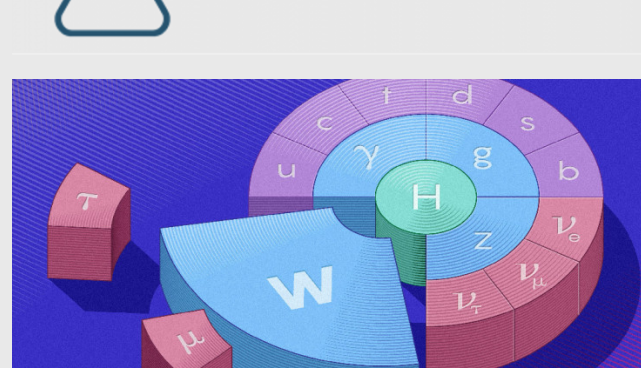
Google lines up with Apple and Microsoft to nix passwords in favor of nearby-device authentication

The trio of tech giants are slowly making moves to eliminate the password as the primary defense for an account.

[FC fastcompany.com](https://www.fastcompany.com)



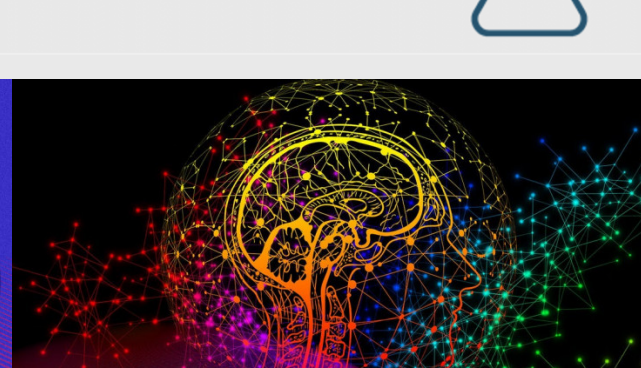
IN THE LAB



Fermilab Says Particle Is Heavy Enough to Break the Standard Model

A new analysis of W bosons suggests these particles are significantly heavier than predicted by the Standard Model of particle physics.

[quantamagazine.org](https://www.quantamagazine.org)



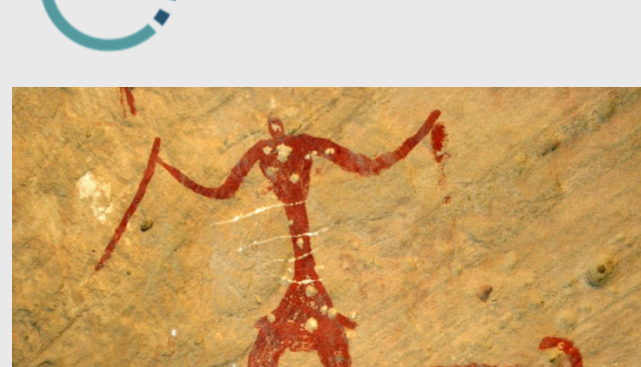
Pythagoras' revenge: humans didn't invent mathematics, it's what the world is made of

Did humans invent mathematics or does it exist independently?

[theconversation.com](https://www.theconversation.com)



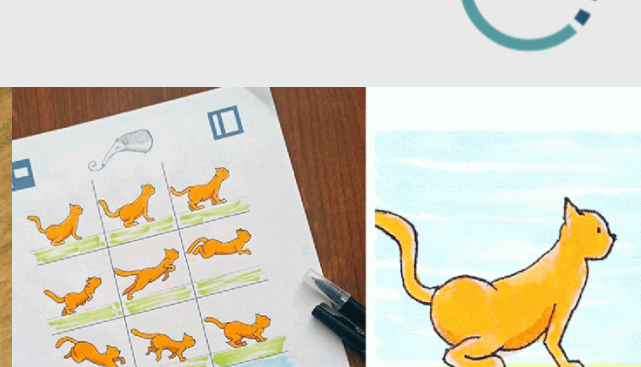
AFTER HOURS



How dogs tracked their humans across the ancient world

DNA from dog remains traces a relationship across time and space

[science.org](https://www.science.org)



This website's printable templates make it easy to turn hand drawn animations into GIFs

The hardest part about using Arteeater is getting your home printer to work.

[gizmodo.com](https://www.gizmodo.com)



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