

**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**

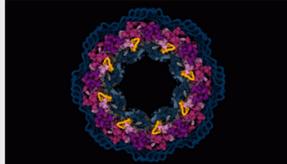
**Why Global Supply Chains May Never Be the Same**

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.

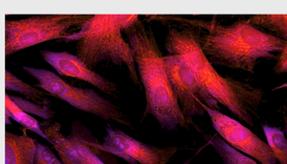
[nature.com](https://www.nature.com)



**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**



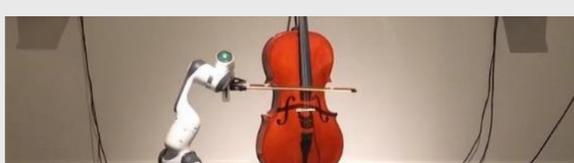
**Innovative 3D Telemedicine to Help Keep Astronauts Healthy**

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 Arteamer is getting your home printer to work.

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



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