



Sharing Knowledge to create a Better World!



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Weekly Science Report

May 19, 2023

“For in the final analysis, our most basic common link, is that we all inhabit this small planet, we all breathe the same air, we all cherish our children's futures, and we are all mortal.”

President John F. Kennedy

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Introduction

Steve Detwiler created this publication with the support of Graham Hancock and the late John Anthony West to share news and information on various disciplines to include but not limited to paleontology, space sciences, genetics, and archaeology. His goal behind sharing this publication has always been very simple, by sharing knowledge we can make our world a better place. This publication is Mr. Detwiler's contribution to bring people together and share ideas and discoveries with his fellow humans.

I hope you enjoy this publication and that the content challenges and inspires you!

The Weekly Science Report is also on social media at:

- Facebook: <https://www.facebook.com/weeklysciencertpt/>
- Twitter: <https://twitter.com/wklysciencertpt>

News Articles

Paleontology, Evolution and Prehistoric Studies

Evidence of ice age human migrations from China to the Americas and Japan

<https://phys.org/news/2023-05-evidence-ice-age-human-migrations.html>

Human ancestry has been shaped by mixing and matching alleles, show two recent studies

<https://phys.org/news/2023-05-human-ancestry-alleles.html>

The Closest Living Relative of the First Animal Has Finally Been Found

<https://www.scientificamerican.com/article/the-closest-living-relative-of-the-first-animal-has-finally-been-found/>

'Thunder beast' fossils show how some mammals might have gotten big

https://www.sciencenews.org/article/thunder-beast-brontothere-fossils-mammals-giant-evolution?fireglass_rsn=true#fireglass_params&tabid=ab3156f7d754ae6c&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Some Neanderthals hunted bigger animals, across a larger range, than modern humans

https://theconversation.com/some-neanderthals-hunted-bigger-animals-across-a-larger-range-than-modern-humans-205339?fireglass_rsn=true#fireglass_params&tabid=a1a5cdc49f0f4c77&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

A Paleontologist Explains Why No 'Hobbits' Could Still Be Living in Indonesia

https://www.popularmechanics.com/science/a43645918/do-homo-floresiensis-still-exist?fireglass_rsn=true#fireglass_params&tabid=a8e7c8abe8afd9ca&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

'Truly gobsmacked': Ancient-human genome count surpasses 10,000

https://www.nature.com/articles/d41586-023-01403-4?fireglass_rsn=true#fireglass_params&tabid=ac0934d65c214200&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

"Smoke archaeology" reveals early humans were visiting Nerja Caves 41,000 years ago

https://arstechnica.com/science/2023/05/smoke-archaeology-reveals-early-humans-were-visiting-nerja-caves-41000-years-ago/?fireglass_rsn=true#fireglass_params&tabid=a6d448e0d4fd1c81&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Butterflies originated in North America after splitting from moths, new study suggests

<https://www.npr.org/2023/05/16/1176200429/butterflies-originated-in-north-america-after-splitting-from-moths-new-study-sug?sc=18&f=1001>

History

A New Online Tool Will Let Native Americans Search for Relatives Who Attended Indian Boarding Schools

https://nativenewsonline.net/sovereignty/a-new-online-tool-will-let-native-americans-search-for-relatives-who-attended-indian-boarding-schools?fireglass_rsn=true#fireglass_params&tabid=ab2d17b2d2c8a24d&start_with_session_counter=3&application_server_address=isolation2-us-east-1.wss.prod.fire.glass

Senate confirms Colleen Shogan as permanent head of National Archives

https://www.usatoday.com/story/news/politics/2023/05/10/national-archives-permanent-leader/70205420007/?taid=645c50d390f121000160ec9c&utm_campaign=trueanthem&utm_medium=social&utm_source=twitter&fireglass_rsn=true#fireglass_params&tabid=a934538fa0174faa&start_with_session_counter=3&application_server_address=isolation2-us-west-2.wss.prod.fire.glass

What Happened to the Nazi Treasure Buried in This Dutch Village?

<https://www.smithsonianmag.com/smart-news/treasure-map-nazis-ommeren-180982137/>

DNA study shows migration patterns of ancient Mexican civilizations much more complex than expected

<https://phys.org/news/2023-05-dna-migration-patterns-ancient-mexican.html>

Archaeologists Discover Roman Camps in Jordan That May Indicate a Secret Military Invasion

<https://www.smithsonianmag.com/smart-news/archaeologists-discover-roman-army-camps-in-jordan-that-may-indicate-a-secret-military-mission-180982165/>

Bronze Age long-distance connections: Baltic amber in Aššur

<https://phys.org/news/2023-05-bronze-age-long-distance-baltic-amber.html>

Archaeologists discover ancient Mayan board game—here's what it can teach modern educators

<https://phys.org/news/2023-05-archaeologists-ancient-mayan-board-gamehere.html>

The Shipwrecked Teenager Who Helped End Japan's Isolationist Era

<https://www.smithsonianmag.com/history/the-shipwrecked-teenager-who-helped-end-japans-isolationist-era-180982199/>

The Myth of the 'Dark Ages' Ignores How Classical Traditions Flourished Around the World

<https://www.smithsonianmag.com/history/the-myth-of-the-dark-ages-ignores-how-classical-traditions-flourished-around-the-world-180982190/>

Nearly 1,000 Years Old, This Text Shows the Ingenuity of Chinese Woodblock Printing

<https://www.smithsonianmag.com/arts-culture/nearly-1000-years-old-text-shows-ingenuity-chinese-woodblock-printing-180982114/>

A Sherpa guide has scaled Mount Everest for the 26th time, tying the all-time record

<https://www.npr.org/2023/05/14/1176076907/a-sherpa-guide-has-scaled-mount-everest-for-the-26th-time-tying-the-all-time-rec?sc=18&f=1001>

Chief Standing Bear, Native American civil rights icon, is honored on a postal stamp

<https://www.npr.org/2023/05/13/1176015675/chief-standing-bear-native-american-civil-rights-icon-is-honored-on-a-postal-stamp?sc=18&f=1001>

'A Small Light' Tells the Story of Miep Gies, Who Hid Anne Frank From the Nazis

https://www.smithsonianmag.com/smart-news/a-small-light-tells-the-story-of-miep-gies-who-hid-anne-frank-from-the-nazis-180982175/?utm_medium=social&utm_source=twitter&utm_campaign=editorial&utm_term=5152023&utm_content=recent&fireglass_rsn=true#fireglass_params&tabid=aa95a95777fcb979&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Oldest human remains from Puerto Rico contradict idea of simple island nomads

https://www.science.org/content/article/oldest-human-remains-puerto-rico-contradict-idea-simple-island-nomads?fireglass_rsn=true#.ZEqebuwmMie.twitter&fireglass_params&tabid=a1b288eaf11644e0&start_with_session_counter=4&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

How Pythagoras turned math into a tool for understanding reality

https://www.sciencenews.org/article/pythagoras-math-reality-music-spheres?fireglass_rsn=true#fireglass_params&tabid=aea231e5d007dd1f&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

DNA evidence reveals family man in Australia was teenage killer who escaped Nebraska jail

<https://www.theguardian.com/us-news/2023/may/14/william-leslie-arnold-australia-nebraska-killed-parents-jailbreak#:~:text=William%20Leslie%20Arnold%20was,movie%20showing%20of%20The%20Undead.>

Auschwitz museum begins emotional work of conserving 8,000 shoes of murdered children

<https://www.npr.org/2023/05/15/1176108532/auschwitz-museum-begins-emotional-work-of-conserving-8-000-shoes-of-murdered-children>

Two charged after Hitler speeches played on Austrian train intercom

<https://www.theguardian.com/world/2023/may/15/two-charged-after-hitler-speeches-played-on-austrian-train-intercom>

The U.N. is marking the 75th anniversary of Palestinians' displacement

<https://www.npr.org/2023/05/15/1176097958/un-nakba-day-explained-anniversary-palestine-israel?sc=18&f=1001>

The importance of religion in the lives of Americans is shrinking

<https://www.npr.org/2023/05/16/1176206568/less-important-religion-in-lives-of-americans-shrinking-report?sc=18&f=1176206568>

Archaeology

Hundreds of Aboriginal ancient artefacts unearthed at site of new Eurobodalla Hospital in Moruya
<https://www.abc.net.au/news/2023-05-10/hundreds-of-aboriginal-artefacts-found-at-site-of-hospital/102322822>

Archaeologists discover 4,000-year-old temple in western Peru
<https://www.abc.net.au/news/2023-05-13/archaeologists-discover-4-000-year-old-temple-discovered-in-peru/102342980>

1,700-year-old Roman watchtower ruins discovered in Switzerland
<https://www.livescience.com/archaeology/romans/1700-year-old-roman-watchtower-ruins-discovered-in-switzerland>

2 hidden male skeletons discovered under pile of rubble in Pompeii's 'House of the Chaste Lovers'
<https://www.livescience.com/archaeology/romans/2-hidden-male-skeletons-discovered-under-pile-of-rubble-in-pompeii-house-of-the-chaste-lovers>

Humanity's earliest recorded kiss occurred in Mesopotamia 4,500 years ago
<https://www.eurekalert.org/news-releases/989443>

5,400-year-old tomb discovered in Spain perfectly captures the summer solstice
<https://www.livescience.com/archaeology/5400-year-old-tomb-discovered-in-spain-perfectly-captures-the-summer-solstice>

'She has stories to tell': digital scan of Titanic wreck could reveal its secrets
https://www.theguardian.com/uk-news/2023/may/17/digital-scan-of-titanic-wreck-secrets-stories-to-tell?CMP=fb_gu&utm_medium=Social&utm_source=Facebook#Echobox=1684330834

Ancient tablet found on Mount Ebal predates known Hebrew inscriptions
<https://www.jpost.com/archaeology/article-743039>

Egyptology

Signs of Anemia Detected in Ancient Egyptian Mummies

<https://www.archaeology.org/news/11450-230518-egypt-children-anemia>

Evidence of bird sacrifices to the goddess Isis in ancient Roman Empire

<https://phys.org/news/2023-05-evidence-bird-sacrifices-goddess-isis.html>

General Science

Why We're Worried About Generative AI

<https://www.scientificamerican.com/podcast/episode/why-were-worried-about-generative-ai/>

Physics, Earth and Space Sciences

Warm object that crashed into New Jersey bedroom was a 4.5 billion-year-old meteorite "in excellent condition," experts confirm

<https://www.cbsnews.com/news/meteorite-crashed-new-jersey-bedroom-experts-confirm-4-5-billion-year-old/>

Researchers discover twisted fields around mysterious fast radio burst

<https://phys.org/news/2023-05-fields-mysterious-fast-radio.html>

NASA picks Bezos' Blue Origin to build lunar landers for moonwalkers

<https://phys.org/news/2023-05-nasa-bezos-blue-lunar-landers.html>

An X-ray look at the heart of powerful quasars

<https://phys.org/news/2023-05-x-ray-heart-powerful-quasars.html>

China's Mysterious Space Plane Returns to Earth

<https://www.scientificamerican.com/article/chinas-mysterious-spaceplane-returns-to-earth/>

Betelgeuse's Brightening Raises Hopes for a Supernova Spectacle

<https://www.scientificamerican.com/article/betelgeuses-brightening-raises-hopes-for-a-supernova-spectacle/>

Researchers discover that the ice cap is teeming with microorganisms

https://www.eurekalert.org/news-releases/987915?fireglass_rsn=true#fireglass_params&tabid=ac3796c0bffd3935&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Hidden oceans could be lurking deep within Uranus' moons

https://www.popsci.com/science/uranus-moon-oceans/?fireglass_rsn=true#fireglass_params&tabid=a88a0b516d313e78&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Superconducting qubits have passed a key quantum test

https://www.newscientist.com/article/2372828-superconducting-qubits-have-passed-a-key-quantum-test/?utm_term=Autofeed&utm_campaign=echobox&utm_medium=social&utm_source=Twitter&fireglass_rsn=true#Echobox=1684112531&fireglass_params&tabid=a4f31e4e40bc8184&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

China's malfunctioning Mars rover may have found evidence of recent water on the Red Planet

https://www.livescience.com/space/mars/chinas-malfunctioning-mars-rover-may-have-found-evidence-of-recent-water-on-the-red-planet?utm_source=twitter.com&utm_campaign=socialflow&utm_content=livescience&utm_medium=social&fireglass_rsn=true#fireglass_params&tabid=a9b2a91e6eafe15&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

James Webb Space Telescope detects water vapor around alien planet. But where did it come from?

https://www.space.com/james-webb-space-telescope-exoplanet-water-vapor-atmosphere-or-star?utm_medium=social&utm_content=space.com&utm_campaign=socialflow&utm_source=twitter.com&fireglass_rsn=true#fireglass_params&tabid=ab39f9ec5b92195c&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

South Korean moon probe snaps picture of NASA's powerful lunar orbiter (photo)

https://www.space.com/danuri-moon-probe-photo-lunar-reconnaissance-orbiter?utm_source=twitter.com&utm_medium=social&utm_campaign=socialflow&utm_content=space.com&fireglass_rsn=true#fireglass_params&tabid=a68151cfb27c741b&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

The James Webb telescope revealed surprise asteroids in the Fomalhaut star system

https://www.sciencenews.org/article/webb-telescope-asteroids-fomalhaut-star?fireglass_rsn=true#fireglass_params&tabid=a497ce3b6af10049&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Florida man breaks record for longest time living underwater

<https://www.cbsnews.com/news/florida-man-breaks-record-for-longest-time-living-underwater-joseph-dituri/>

Environment, Climate Change and Alternative Energy Sources

An unusually early heat wave in the Pacific Northwest is testing records

<https://www.npr.org/2023/05/14/1176058301/an-unusually-early-heat-wave-in-the-pacific-northwest-is-testing-records?sc=18&f=1001>

Tiny microbes could brew big benefits for green biomanufacturing

https://www.eurekalert.org/news-releases/988488?fireglass_rsn=true#fireglass_params&tabid=ad2a0f1a8900beb3&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Lab-grown meat could be 25 times worse for the climate than beef

https://www.newscientist.com/article/2372229-lab-grown-meat-could-be-25-times-worse-for-the-climate-than-beef/?utm_term=Autofeed&utm_campaign=echobox&utm_medium=social&utm_source=Twitter&fireglass_rsn=true#Echobox=1684105728&fireglass_params&tabid=a2fd3c73eabcdec&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Satellites traced super methane plumes to Turkmenistan's gas fields

https://www.popsci.com/environment/satellite-methane-emissions-turkmenistan/?fireglass_rsn=true#fireglass_params&tabid=aac0e59d5d38f289&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Biological, Genetics and Medical Sciences

What is the 'Hippocratic oath,' and who was Hippocrates?

<https://www.livescience.com/62515-hippocrates.html>

Mutation in ribosomal protein in heart and skeletal muscle leads to impaired cardiac contractility in mice

<https://medicalxpress.com/news/2023-05-mutation-ribosomal-protein-heart-skeletal.html>

Novel gene-editing strategy leverages unusual genetic alteration to block HIV spread in cells

<https://medicalxpress.com/news/2023-05-gene-editing-strategy-leverages-unusual-genetic.html>

A global effort to identify critical illness in some COVID-19 patients highlights genetic risk, potential treatments

<https://medicalxpress.com/news/2023-05-global-effort-critical-illness-covid-.html>

He helped cancer patients find peace through psychedelics. Then came his diagnosis

<https://www.npr.org/2023/05/14/1175762261/cancer-patients-psychedelics-medical-spirituality?sc=18&f=1001>

FDA changes rules for donating blood. Some say they're still discriminatory

<https://www.npr.org/2023/05/12/1175915036/fda-changes-rules-for-donating-blood-some-say-theyre-still-discriminatory?sc=18&f=1001>

Scientists announce rough draft of human pangenome

<https://www.nbcnews.com/science/science-news/scientists-announce-rough-draft-human-pangenome-rcna83120>

Wearable ultrasound patch provide non-invasive deep tissue monitoring

https://www.eurekalert.org/news-releases/988067?fireglass_rsn=true#fireglass_params&tabid=a42ac6b72a92563f&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Restoring control to a particular brain region may help to prevent return to use of opioids

https://medicalxpress.com/news/2023-05-brain-region-opioids.html?fireglass_rsn=true#fireglass_params&tabid=a56fcdd606154b3f&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Researchers identify a brain marker indicating future suicide risk

https://medicalxpress.com/news/2023-05-brain-marker-indicating-future-suicide.html?fireglass_rsn=true#fireglass_params&tabid=adee277a080227c1&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Socioeconomic diversity of US medical school students has decreased, find researchers

https://medicalxpress.com/news/2023-05-socioeconomic-diversity-medical-school-students.html?fireglass_rsn=true#fireglass_params&tabid=a531943b8376f867&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

How African scientists are working to pool data that decodes diseases

https://medicalxpress.com/news/2023-05-african-scientists-pool-decodes-diseases.html?fireglass_rsn=true#fireglass_params&tabid=a2fcba7acf893b38&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Artificial intelligence could improve heart attack diagnosis to reduce pressure on emergency departments

https://medicalxpress.com/news/2023-05-artificial-intelligence-heart-diagnosis-pressure.html?fireglass_rsn=true#fireglass_params&tabid=a22adeb772aa3da0&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

New way to model human brain immune cells

https://medicalxpress.com/news/2023-05-human-brain-immune-cells.html?fireglass_rsn=true#fireglass_params&tabid=a8b1d906ef94a5d5&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Robot injected in the skull spreads its tentacles to monitor the brain

https://www.newscientist.com/article/2373099-robot-injected-in-the-skull-spreads-its-tentacles-to-monitor-the-brain/?utm_term=Autofeed&utm_campaign=echobox&utm_medium=social&utm_source=Twitter&fireglass_rsn=true#Echobox=1684124338&fireglass_params&tabid=a37a61ea9c4ad0ab&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Why the sci-fi dream of cryonics never died

https://www.technologyreview.com/2022/10/14/1060951/cryonics-sci-fi-freezing-bodies/?utm_source=Twitter&utm_medium=social&utm_campaign=site_visitor.unpaid.engage&fireglass_rsn=true#fireglass_params&tabid=ab15933a7e962b55&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Humpback whales caught on film for 1st time treating themselves to a full body scrub on the seafloor

https://www.livescience.com/animals/humpback-whales/humpback-whales-caught-on-film-for-1st-time-treating-themselves-to-a-full-body-scrub-on-the-seafloor?utm_source=twitter.com&utm_medium=social&utm_campaign=socialflow&utm_content=livescience&fireglass_rsn=true#fireglass_params&tabid=ad2c5c18e2c77e7b&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

Families scramble to find growth hormone drug as shortage drags on

<https://www.npr.org/sections/health-shots/2023/05/15/1176220138/families-scramble-to-find-growth-hormone-drug-as-shortage-drags-on?sc=18&f=1001>

Platypuses Return to Australia's Oldest National Park

https://www.smithsonianmag.com/smart-news/platypuses-return-to-australias-oldest-national-park-180982179/?utm_medium=social&utm_source=facebook&utm_campaign=editorial&utm_term=5162023&utm_content=new&fbclid=IwAR37DkiuEIYKYsWzhrIZVVoLEePcN8X7B2A-wqPDAmawXZ2WXEQmt7CyAWk

Universal flu vaccine based on mRNA tech to be tested by National Institutes of Health

<https://www.nbcnews.com/health/cold-and-flu/universal-flu-vaccine-based-mrna-tech-tested-national-institutes-health-rcna84571>

Other

Peter Pan still hasn't grown up, but Tiger Lily has changed

<https://www.npr.org/2023/05/07/1173022370/peter-pan-and-wendy-tiger-lily-disney>

'It's not for the faint-hearted' — the story of India's intrepid women seaweed divers

<https://www.npr.org/sections/goatsandsoda/2023/05/07/1129895843/its-not-for-the-faint-hearted-the-story-of-indias-intrepid-women-seaweed-divers?sc=18&f=1001>

Mysterious rumblings were recorded in Earth's stratosphere

https://www.cnn.com/2023/05/11/world/stratosphere-sounds-scn/index.html?utm_content=2023-05-11T20%3A30%3A08&utm_term=link&utm_source=fbCNNi&utm_medium=social

Additional Informational

Can Amazon Countries Save the Rain Forest?

https://www.cfr.org/backgrounder/can-amazon-countries-save-rain-forest?utm_medium=social_owned&utm_source=tw&fireglass_rsn=true#fireglass_params&tabid=aaeb70d1ea93837e&start_with_session_counter=3&application_server_address=isolation2-us-west-2.wss.prod.fire.glass

Archaeological Monitoring in War-Torn Ukraine

https://www.tandfonline.com/doi/abs/10.1080/17567505.2023.2209835?journalCode=yhen20&fireglass_rsn=true#fireglass_params&tabid=a4772626e838b5bd&start_with_session_counter=3&application_server_address=isolation2-us-west-2.wss.prod.fire.glass

Tooth enamel provides clues to hunter-gatherer lifestyle of Neanderthals

<https://www.southampton.ac.uk/news/2023/05/neanderthal-diet.page>

NASA, Partners Achieve Fastest Space-to-Ground Laser Comms Link

<https://www.nasa.gov/feature/ames/tbird-milestone>

Woods Hole Oceanographic Institution, Ocean Robots Webinar, May 24

https://www.whoi.edu/ocean-encounter/robots/?fbclid=IwAR0FUakSZ-_ypaAnV73Y0ZzQa65pOWj86cd_BR1brYNZKYEKw_n6JP65qVQ

Off the Grid: Ven, Sweden

https://www.archaeology.org/issues/509-2305/digs/11342-sweden-tycho-brahe?fireglass_rsn=true#fireglass_params&tabid=aee38ce16a84abd3&start_with_session_counter=3&application_server_address=isolation1-us-east-1.wss.prod.fire.glass

NASA Gears Up to Train Artemis II Crew for Moon Mission

<https://www.nasa.gov/feature/nasa-gears-up-to-train-artemis-ii-crew-for-moon-mission>