



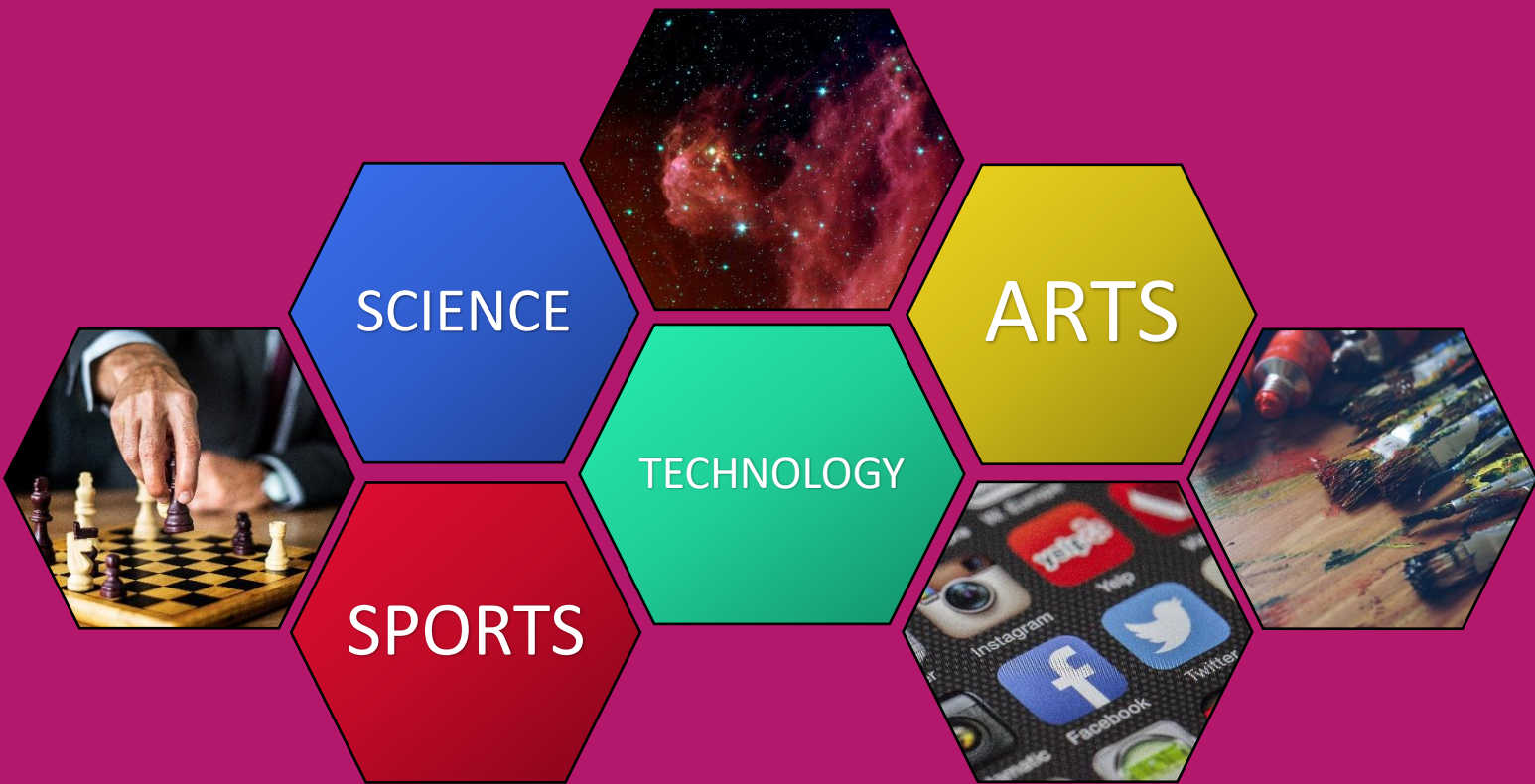
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SCIENCE



Credit: Pxhere

Scientists successfully create diamonds out of bottle plastic.

(October 3, 2022)



Credit: HZDR / Blaurock

A research team utilizes laser flashes to replicate the interior of ice planets, which inspires a new method of creating tiny diamonds. What transpires inside planets like Uranus and Neptune? An innovative experiment was carried out to find out by a global team led by the Helmholtz-Zentrum Dresden-Rossendorf (HZDR), the University of Rostock, and France's École Polytechnique. They used intense laser flashes to study what occurred when they shot a laser at a thin sheet of simple PET plastic.

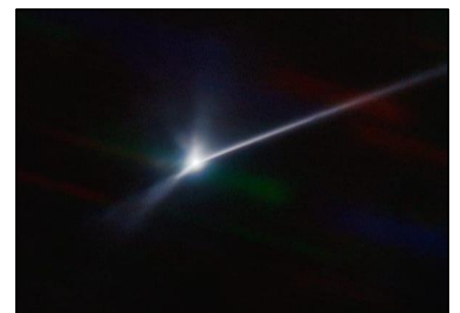
Read more at:

<https://scitechdaily.com/scientists-successfully-create-diamonds-out-of-bottle-plastic/>

Immense trail of debris from DART collision with asteroid Dimorphos captured by SOAR telescope.

(October 4, 2022)

NASA's Double Asteroid Redirection Test (DART) spacecraft deliberately slammed into Dimorphos, the asteroid moonlet in the double-asteroid system of Didymos. This was the first planetary defense test in which a spacecraft attempted to modify the orbit of an asteroid through kinetic impact. Two days after DART's collision, astronomers Teddy Kareta and Matthew Knight captured the vast plume of dust and debris blasted from the asteroid's surface with the 4.1-meter Southern Astrophysical



Credit: CTIO/NOIRLab/
SOAR etc.

Research (SOAR) Telescope. These observations will allow researchers to gain knowledge about the nature of the surface of Dimorphos.

Read more at:

<https://scitechdaily.com/immense-trail-of-debris-from-dart-collision-with-asteroid-dimorphos-captured-by-soar-telescope/>

Groundbreaking research exposes immune system’s “off button”. (October 5, 2022)



Representational Image

Scientists have discovered what turns off the molecular alarm system that plays a critical role in our immune response. The antibacterial superhero MR1 (MHC class I-related molecule) is a protein found in every cell of the human body that functions as a molecular alarm system, alerting powerful cells of our immune system, our white blood cells, when cancer or bacterial infection is present. “What we found is that there are proteins – called AP2 (adaptor protein 2) – inside our cells that bind to MR1, and drag it inside the cells. Once inside, MR1 can no longer signal to white blood cells anymore, which effectively turns off the immune response,” the researchers said.

Read more at:

<https://scitechdaily.com/groundbreaking-research-exposes-immune-systems-off-button/>

Promising anti-cancer drug could also help with COVID.

(October 5, 2022)

An efficient method of combating SARS-CoV-2, the virus that causes COVID-19, may be possible based on findings from a recent study by a research team led by Johns Hopkins Medicine that avoids the issue of waning immunity that is frequently noticed when current vaccines address emerging COVID variants. The technique stops the virus’s ability to take over a host cell’s “genetic manufacturing plant” and replicate itself by using a tiny molecule inhibitor called RK-33.

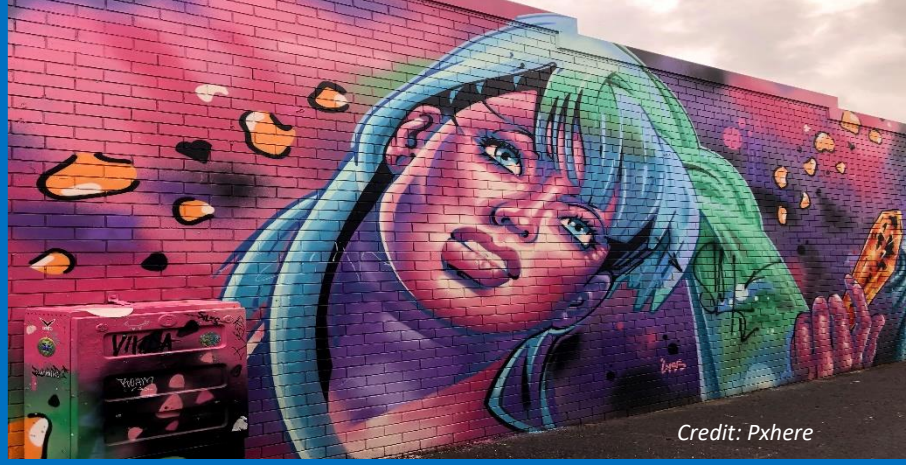


Representational Image

Read more at:

<https://scitechdaily.com/promising-anti-cancer-drug-could-also-help-with-covid/>

ARTS



Credit: Pxhere

Antwerp's Royal Museum of Fine Arts reopens.

(October 3, 2022)



Credit: Karin Borghouts

After 11 years of renovation, Belgium's Royal Museum of Fine Arts Antwerp has reinvented itself. A gigantic, dark red plush sculpture resembling two camels welcomes visitors and a cross between a giant sofa and a climbing gym, is the work of Belgian artist Christophe Coppens and was inspired by Flemish Baroque artist Peter Paul Rubens' monumental painting "Adoration of the Magi" (1624-25). It's one of ten enlarged contemporary artworks Coppens recreated based on paintings that are currently found in the Belgian museum.

Read more at:

<https://indianexpress.com/article/lifestyle/art-and-culture/antwerps-royal-museum-of-fine-arts-reopens-kmska-removation-8186824/>

More than two-dozen Ancient Buddhist temples and murals have been found in an Indian Tiger Reserve.

(October 4, 2022)

Two-dozen previously unrecorded Buddhist caves have been found in the Tala range of the Bandhavgarh Tiger Reserve. The caves date back to the 2nd to 5th century BCE, but researchers also found more recent relics, including 26 temples, 46 sculptures, two votive stupas, 24 Brahmin inscriptions, 19 water structures, scattered stone board games, and ancient coins. The month-long undertaking, led



Credit: Archaeological Survey of India

by archaeologist Shivakant Bajpai of Jabalpur Circle this past spring, marks the first government exploration into this patch of wilderness since 1938.

Read more at:

<https://news.artnet.com/art-world/buddhist-caves-discovered-india-tiger-reserve-2185513>

Mumbai to get major new venue for art and performance—funded by one of India's richest families.

(October 6, 2022)



Credit: NMACC

A major new centre for performance and visual arts will open next March in Mumbai. The Nita Mukesh Ambani Cultural Centre (NMACC) is named after its founder, the philanthropist Nita Ambani. She is the wife of India's second-richest man Mukesh Ambani, the billionaire chairman of the conglomerate Reliance Industries. The forthcoming venue will contain 1,500 sq m of purpose-built exhibition space and three theatres.

Read more at:

<https://www.theartnewspaper.com/2022/10/06/mumbai-to-get-major-new-cultural-centre-for-art-and-performancefunded-by-one-of-indias-richest-families>

Nobel Prize for Literature goes to French author Annie Ernaux.

(October 6, 2022)

Nobel Prize for Literature goes to French author Annie Ernaux. "The 2022 #NobelPrize in Literature is awarded to the French author Annie Ernaux "for the courage and clinical acuity with which she uncovers the roots, estrangements and collective restraints of personal memory," reads the tweet from Nobel's official handle. Ernaux, 82, becomes only the 17th female writer to have won the prize, widely considered the most prestigious award in world literature, since it was formed in 1901.



Credit: Twitter/@NobelPrize

Read more at:

<https://www.telegraphindia.com/culture/books/nobel-prize-for-literature-goes-to-french-author-annie-ernaux/cid/1890466>

TECHNOLOGY

Credit: Unsplash

India gets 5G, Airtel debuts service, slated to spread across entire country by March 2024.

(October 3, 2022)

After what has been a long-awaited wait, 5G services have officially been launched in the world's second-largest internet market to provide seamless coverage with high data speeds and low latency, thereby ensuring a revolution and the beginning of a new era in the telecommunications sector in India. In the first phase of the launch, 5G services will be available in 13 cities – these are Ahmedabad, Bengaluru, Chandigarh, Chennai, Delhi, Gandhinagar, Gurugram, Hyderabad, Jamnagar, Kolkata, Lucknow, Mumbai, and Pune.



Representational Image

Read more at:

<https://thetechportal.com/2022/10/01/india-5g-launch/>

BBC's technology evolution shown at National Museum of Computing.

(October 3, 2022)



Credit: BBC

A new exhibition looking at the evolution of technology at the BBC has opened to mark the corporation's 100th anniversary. "BBC through the decades" is at the National Museum of Computing at Bletchley Park, near Milton Keynes. It showcases the analogue and digital technology used by the BBC since its inception and the innovations it contributed towards. The exhibition looks at how the BBC

began broadcasting, the first television broadcast in 1932 and the move to colour in 1967.

Read more at:

<https://www.bbc.com/news/uk-england-beds-bucks-herts-63092205>

YouTube users may soon need Premium subscription to stream in 4K.

(October 4, 2022)

YouTube has been looking for ways to push its subscription-based premium model on users for a while now, including testing multiple (up to 11) unskippable ads. A new restriction for non-premium users is sure to make a number of users of the platform unhappy. As per a reports, a number of Twitter and Reddit users noted that over the weekend, YouTube had been asking non-Premium users to upgrade their free plan to stream in 4K.



Credit: Pixabay

Read more at:

<https://indianexpress.com/article/technology/tech-news-technology/youtube-users-may-soon-need-premium-subscription-to-stream-in-4k-8188703/>

Elon Musk to proceed with the acquisition on original terms after all, Twitter confirms.

(October 5, 2022)

It seems that the billionaire has changed his mind — once again — about acquiring Twitter – a deal that he had himself proposed before backing away later – at the original price of \$54.20 per Twitter share, or a total of \$44 billion. Twitter confirmed that it had received the letter from Musk, adding that it intends to close the buyout deal at the price of \$54.20 per share. The reveal of this news sent Twitter’s shares soaring before trading was suspended for some time. The shares were up by 12.7% at \$47.93 before trading was halted for the second time, and they are currently trading at \$52 per share

Read more at:

<https://thetechportal.com/2022/10/05/elon-musk-twitter-acquisition-buy-out-going-ahead/>



SPORTS



Credit: Unsplash

India beat Panama 4-0 in Rd 1 of World Youth U-16 Olympiad. *(October 3, 2022)*

India broke no sweat in beating Panama convincingly in the first round of FIDE World Youth Under-16 Olympiad 2022. Team India comprises – GM Pranav Venkatesh, IM Pranesh M, FM Harshad S, Tanisha S Boramanikar, Rohit S and Mrityika Mallick. Harshad and Mrityika were rested in the first round. The remaining four won their games comfortably. A total of 34 teams from 23 countries across the world are taking part in this event. The host nation has the highest number of teams – six.

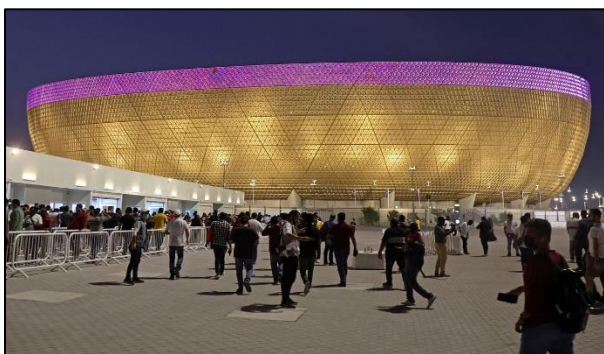


Credit: PxHere

Read more at:

<https://indianexpress.com/article/sports/chess/india-beat-panama-4-0-in-rd-1-of-world-youth-u-16-olympiad-8187457/>

Paris joins in TV boycott of World Cup games from Qatar. *(October 4, 2022)*



Credit: Karim Jaafar/AFP/Getty Images

Paris will not broadcast World Cup matches on giant screens in public fan zones amid concerns over rights violations of migrant workers and the environmental impact of the tournament in Qatar. The move comes despite the city's football club, Paris Saint-Germain, being owned by Qatar Sports Investments. A growing number of French cities are refusing to erect screens to broadcast World Cup matches to protest Qatar's human rights record.

Read more at:

<https://indianexpress.com/article/sports/football/paris-joins-in-tv-boycott-of-world-cup-games-from-qatar-8189814/>

European Club Cup: Vishwanathan Anand and Magnus Carlsen register wins.

(October 7, 2022)

Five-time chess world champion Viswanathan Anand defeated Shakhriyar Mamedyarov in Round 4 of the European Club Cup and is back in the top 10. Reigning world champion Magnus Carlsen, too, scored a second win in a row, taking down India's P Harikrishna. Anand's two draws so far had seen him drop out of the Top 10 spot in the rating list, but a comfortable win over Shakhriyar Mamedyarov helped him to move to World no 9.



Credit: Fiona Steil-Antoni, ECC2022

Read more at:

<https://indianexpress.com/article/sports/chess/european-club-cup-vishwanathan-anand-and-magnus-carlsen-register-wins-8194657/>

India beat Bangladesh by 59 runs in Women's Asia Cup.

(October 7, 2022)

India defeated Bangladesh by 59 runs in a Women's Asia Cup match. Opting to bat, Shafali Verma smashed a quickfire 55 off only 44 balls while in-form Jemimah Rodrigues used the long handle to good effect with an unbeaten 35 as India managed a par 159 or 5. Shafali and stand-in skipper Smriti Mandhana (47 off 38 balls) added 96 for the opening stand while Jemimah and Deepti Sharma (10) added 29 runs in just 2.3 overs. The Indian bowlers then defended the target easily, restricting the hosts to 100 for 7.

Read more at:

<https://indianexpress.com/article/sports/cricket/india-beat-bangladesh-by-59-runs-in-womens-asia-cup-8197679/>

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