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[Mini rolling robot takes virtual biopsies | ScienceDaily](https://www.sciencedaily.com/releases/2025/03/250326154441.htm)A tiny magnetic robot which can take 3D scans from deep within the body, that could revolutionize early cancer detection, has been developed by researchers. The team say this is the first time it has been possible to generate high-resolution three-dimensional ultrasound images taken from a probe deep inside the gastrointestinal tract, or gut.

[Embolic protection device does not reduce stroke rate in TAVR procedure](https://www.news-medical.net/news/20250331/Embolic-protection-device-does-not-reduce-stroke-rate-in-TAVR-procedure.aspx)A device designed to remove embolic material—fragments of tissue that can be released into the bloodstream during transcatheter aortic valve replacement (TAVR)—did not result in a reduction in the rate of stroke, according to a randomized trial presented at the American College of Cardiology's Annual Scientific Session (ACC.25).

[Trilogy valve demonstrates safety and effectiveness in treating aortic regurgitation](https://www.news-medical.net/news/20250331/Trilogy-valve-demonstrates-safety-and-effectiveness-in-treating-aortic-regurgitation.aspx) Patients who underwent transcatheter aortic valve replacement (TAVR) with a valve designed to treat aortic regurgitation had an overall mortality rate of just 8.1% at one year, well below the trial's prespecified goal of 25% to show non-inferiority, according to a study presented at the American College of Cardiology's Annual Scientific Session (ACC.25).

[New peptide antibiotic stops bacteria by binding where no drug has before](https://www.news-medical.net/news/20250327/New-peptide-antibiotic-stops-bacteria-by-binding-where-no-drug-has-before.aspx) Lariocidin hits drug-resistant bacteria where others fail — by hijacking the ribosome at a new site, bypassing defences, and opening the door to a new generation of antibiotics.

[The Latest Advances in Cell and Gene Therapy](https://www.news-medical.net/life-sciences/The-Latest-Advances-in-Cell-and-Gene-Therapy.aspx) According to the American Society of Gene & Cell Therapy (ASGCT) and Citeline, a total of 76 CGTs have been launched so far since the first product received approval from the global regulatory bodies in 2004.

[Study offers new insights into the harmful effects of sugar-sweetened beverages on human health](https://www.news-medical.net/news/20250321/Study-offers-new-insights-into-the-harmful-effects-of-sugar-sweetened-beverages-on-human-health.aspx)Researchers at the Advanced Research Unit on Metabolism, Development & Aging (ARUMDA), in the Tata Institute of Fundamental Research (TIFR, Mumbai and TIFR Hyderabad), have unveiled a comprehensive understanding of the harmful effects of sugar-sweetened beverages (SSBs) on human health, using a preclinical mouse model that closely mimics human consumption patterns.

[How Artificial Sweeteners Disrupt the Gut Microbiome, Or Do They?](https://www.news-medical.net/health/How-Artificial-Sweeteners-Disrupt-the-Gut-Microbiome-Or-Do-They.aspx)Studies indicate that sweeteners can significantly alter gut flora, potentially leading to dysbiosis- a disruption associated with metabolic disorders like insulin resistance, obesity, and inflammation. Saccharin and sucralose specifically have been observed to impact gut microbiota composition in various studies consistently.

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A modified pig liver transplanted into a human patient appears to have functioned normally for the duration of the investigation with no signs of rejection.

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[New research sheds light on brain inflammation in Alzheimer's](https://www.azonetwork.com/go/?ruid=1b5a71c43b764f24bf31fcceb702459b&nirid=819e9139bf0b48b0a50615adc5491771&nirknd=4) Brain inflammation, while a crucial part of the body's immune response, takes on a detrimental role in Alzheimer's disease.     
  
[Innovative blood test shows potential to replace spinal tap for Alzheimer's diagnosis](https://www.azonetwork.com/go/?ruid=0531fe68bb794de4b769b07d5a327b86&nirid=819e9139bf0b48b0a50615adc5491771&nirknd=4) Up to half of all people living with Alzheimer's Disease in Ireland remain undiagnosed. Now, a new blood test may have the potential to transform patient care, allowing for better diagnosis, earlier interventions and more targeted treatments.

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[Mini rolling robot takes virtual biopsies | ScienceDaily](https://www.sciencedaily.com/releases/2025/03/250326154441.htm)A tiny magnetic robot which can take 3D scans from deep within the body, that could revolutionize early cancer detection, has been developed by researchers. The team say this is the first time it has been possible to generate high-resolution three-dimensional ultrasound images taken from a probe deep inside the gastrointestinal tract, or gut.

[Embolic protection device does not reduce stroke rate in TAVR procedure](https://www.news-medical.net/news/20250331/Embolic-protection-device-does-not-reduce-stroke-rate-in-TAVR-procedure.aspx)A device designed to remove embolic material—fragments of tissue that can be released into the bloodstream during transcatheter aortic valve replacement (TAVR)—did not result in a reduction in the rate of stroke, according to a randomized trial presented at the American College of Cardiology's Annual Scientific Session (ACC.25).

[Trilogy valve demonstrates safety and effectiveness in treating aortic regurgitation](https://www.news-medical.net/news/20250331/Trilogy-valve-demonstrates-safety-and-effectiveness-in-treating-aortic-regurgitation.aspx) Patients who underwent transcatheter aortic valve replacement (TAVR) with a valve designed to treat aortic regurgitation had an overall mortality rate of just 8.1% at one year, well below the trial's prespecified goal of 25% to show non-inferiority, according to a study presented at the American College of Cardiology's Annual Scientific Session (ACC.25).

[New peptide antibiotic stops bacteria by binding where no drug has before](https://www.news-medical.net/news/20250327/New-peptide-antibiotic-stops-bacteria-by-binding-where-no-drug-has-before.aspx) Lariocidin hits drug-resistant bacteria where others fail — by hijacking the ribosome at a new site, bypassing defences, and opening the door to a new generation of antibiotics.

[The Latest Advances in Cell and Gene Therapy](https://www.news-medical.net/life-sciences/The-Latest-Advances-in-Cell-and-Gene-Therapy.aspx) According to the American Society of Gene & Cell Therapy (ASGCT) and Citeline, a total of 76 CGTs have been launched so far since the first product received approval from the global regulatory bodies in 2004.

[Study offers new insights into the harmful effects of sugar-sweetened beverages on human health](https://www.news-medical.net/news/20250321/Study-offers-new-insights-into-the-harmful-effects-of-sugar-sweetened-beverages-on-human-health.aspx)Researchers at the Advanced Research Unit on Metabolism, Development & Aging (ARUMDA), in the Tata Institute of Fundamental Research (TIFR, Mumbai and TIFR Hyderabad), have unveiled a comprehensive understanding of the harmful effects of sugar-sweetened beverages (SSBs) on human health, using a preclinical mouse model that closely mimics human consumption patterns.

[How Artificial Sweeteners Disrupt the Gut Microbiome, Or Do They?](https://www.news-medical.net/health/How-Artificial-Sweeteners-Disrupt-the-Gut-Microbiome-Or-Do-They.aspx)Studies indicate that sweeteners can significantly alter gut flora, potentially leading to dysbiosis- a disruption associated with metabolic disorders like insulin resistance, obesity, and inflammation. Saccharin and sucralose specifically have been observed to impact gut microbiota composition in various studies consistently.

[Pig Liver Successfully Transplanted Into Human Patient in World First : ScienceAlert](https://www.sciencealert.com/pig-liver-successfully-transplanted-into-human-patient-in-world-first)  
A modified pig liver transplanted into a human patient appears to have functioned normally for the duration of the investigation with no signs of rejection.

[There's a Surprisingly Simple Way to Remove Microplastics From Drinking Water : ScienceAlert](https://www.sciencealert.com/theres-a-surprisingly-simple-way-to-remove-microplastics-from-drinking-water) https://youtu.be/5aSyjlba2aA

[Parkinson's Gut Bacteria Link Suggests an Unexpected, Simple Treatment : B Vitamins](https://www.sciencealert.com/parkinsons-gut-bacteria-link-suggests-an-unexpected-simple-treatment)

[World's Most Common Pain Relief Drug May Induce Risky Behavior, Study Finds : ScienceAlert](https://www.sciencealert.com/worlds-most-common-pain-relief-drug-may-induce-risky-behavior-study-finds)

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[Study breaks down Alzheimer's treatment effects in clear terms](https://www.azonetwork.com/go/?ruid=66b1d87196dd4374a4695d350cd7d5ea&nirid=819e9139bf0b48b0a50615adc5491771&nirknd=4)   
[Lecanemab and donanemab slow Alzheimer’s decline, but is the benefit worth the cost?](https://www.azonetwork.com/go/?ruid=3d8e3080bb514d5aa7c9eabc7b5f3748&nirid=819e9139bf0b48b0a50615adc5491771&nirknd=4)   
  
[New research sheds light on brain inflammation in Alzheimer's](https://www.azonetwork.com/go/?ruid=1b5a71c43b764f24bf31fcceb702459b&nirid=819e9139bf0b48b0a50615adc5491771&nirknd=4) Brain inflammation, while a crucial part of the body's immune response, takes on a detrimental role in Alzheimer's disease.     
  
[Innovative blood test shows potential to replace spinal tap for Alzheimer's diagnosis](https://www.azonetwork.com/go/?ruid=0531fe68bb794de4b769b07d5a327b86&nirid=819e9139bf0b48b0a50615adc5491771&nirknd=4) Up to half of all people living with Alzheimer's Disease in Ireland remain undiagnosed. Now, a new blood test may have the potential to transform patient care, allowing for better diagnosis, earlier interventions and more targeted treatments.