

Biotechnology & Health:

The biotechnology and health sectors are buzzing with new advancements, particularly in India and globally, with a focus on bio-driven economies, new clinical guidelines, and breakthroughs in targeted therapies.

Economic & Policy Highlights

India's Biotech Sector on the Rise: According to Minister Jitendra Singh, India's biotechnology sector is poised to become a dominant force in the global economy, aiming for a \$300 billion industry within the next 5-7 years. This growth is supported by policies like the bio-e-tree policy.

Global Biotech Week: Saskatchewan, Canada, has proclaimed September 20-27 as Global Biotech Week to celebrate the benefits and future economic contributions of biotechnology to the province.

Clinical & Medical News

New Clinical Guidelines: The American Gastroenterological Association (AGA) has released new clinical guidelines with 12 recommendations for diagnosing and managing gastroparesis, a debilitating disease.

Advances in Autism Assessment: Scientists have developed and tested a new deep-learning AI model that can analyze brain activity to support and prioritize autism assessments, providing accurate results and estimated probability scores for clinicians.

Gene Therapy for Neurodegenerative Diseases: NKGen Biotech announced that it will present on the use of its drug candidate, troculeucel, for

neurodegenerative diseases at the 3rd China Great Bay Cell and Gene Therapy Forum.

Pediatric Cancer Biomarkers: A study in Brazil has identified possible biomarkers that could guide the development of more personalized therapies for pediatric germ cell tumors (GCTs).

Drug Approvals & Clinical Trials:

AstraZeneca's Saphnelo, a biologic for systemic lupus erythematosus, showed a statistically significant reduction in disease activity in its Phase III trial.

Raludotatug Deruxtecan has been granted Breakthrough Therapy Designation by the U.S. FDA for patients with platinum-resistant ovarian cancer.

LEO Pharma presented data for delgocitinib cream in a Phase III trial, showing its efficacy in treating moderate to severe chronic hand eczema in adolescents.

Pfizer reaffirmed the safety and efficacy of its COVID-19 vaccines, releasing data from the 2024-2025 season showing continued protection against severe illness.

Other News

Microplastics and Health: New research suggests that microplastics may pose potential risks to bone health, a finding that highlights the widespread impact of plastic pollution.

AI in Protein Design: The NSF has announced grants to accelerate the translation of AI-based approaches to protein design, enabling the creation of new proteins with specific, desirable characteristics.



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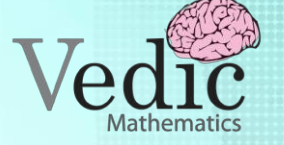
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MCQS

1: What is the projected value of India's biotechnology sector within the next 5-7 years, as stated by Minister Jitendra Singh?

- a) \$100 billion
- b) \$200 billion
- c) \$300 billion
- d) \$400 billion

Answer: c) \$300 billion.

According to Minister Jitendra Singh, India's biotechnology sector is aiming to become a \$300 billion industry within the next 5-7 years.

2: Which Canadian province has proclaimed September 20-27 as Global Biotech Week?

- a) Quebec
- b) Ontario
- c) British Columbia
- d) Saskatchewan

Answer: d) Saskatchewan.

The prompt explicitly mentions that Saskatchewan, Canada, has proclaimed September 20-27 as Global Biotech Week.

3: What new clinical guidelines has the American Gastroenterological Association (AGA) released?

- a) Guidelines for celiac disease.
- b) Guidelines for irritable bowel syndrome (IBS).
- c) Guidelines for diagnosing and managing gastroparesis.
- d) Guidelines for Crohn's disease.

Answer: c) Guidelines for diagnosing and managing gastroparesis.

The American Gastroenterological Association (AGA) has released new clinical guidelines with 12 recommendations for diagnosing and managing gastroparesis, a debilitating disease.





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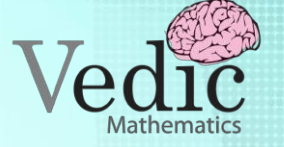
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4: What is the name of AstraZeneca's biologic for systemic lupus erythematosus that showed a significant reduction in disease activity in a Phase III trial?

- a) Raludotatug Deruxtecán
- b) Saphnelo
- c) Troculeucel
- d) Delgocitinib cream

Answer: b) Saphnelo.

The prompt states that AstraZeneca's Saphnelo, a biologic for systemic lupus erythematosus, showed a statistically significant reduction in disease activity in its Phase III trial.

5: For what condition has the U.S. FDA granted Breakthrough Therapy Designation to Raludotatug Deruxtecán?

- a) Pediatric germ cell tumors.
- b) Systemic lupus erythematosus.
- c) Platinum-resistant ovarian cancer.
- d) Chronic hand eczema.

Answer: c) Platinum-resistant ovarian cancer.

Raludotatug Deruxtecán has been granted Breakthrough Therapy Designation by the U.S. FDA for patients with platinum-resistant ovarian cancer.

6: What new potential health risk is suggested by recent research on microplastics?

- a) Damage to the cardiovascular system.
- b) Risks to bone health.
- c) Impaired cognitive function.
- d) Increased risk of diabetes.

Answer: b) Risks to bone health.

The prompt mentions that new research suggests microplastics may pose potential risks to bone health, highlighting the widespread impact of plastic pollution.

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