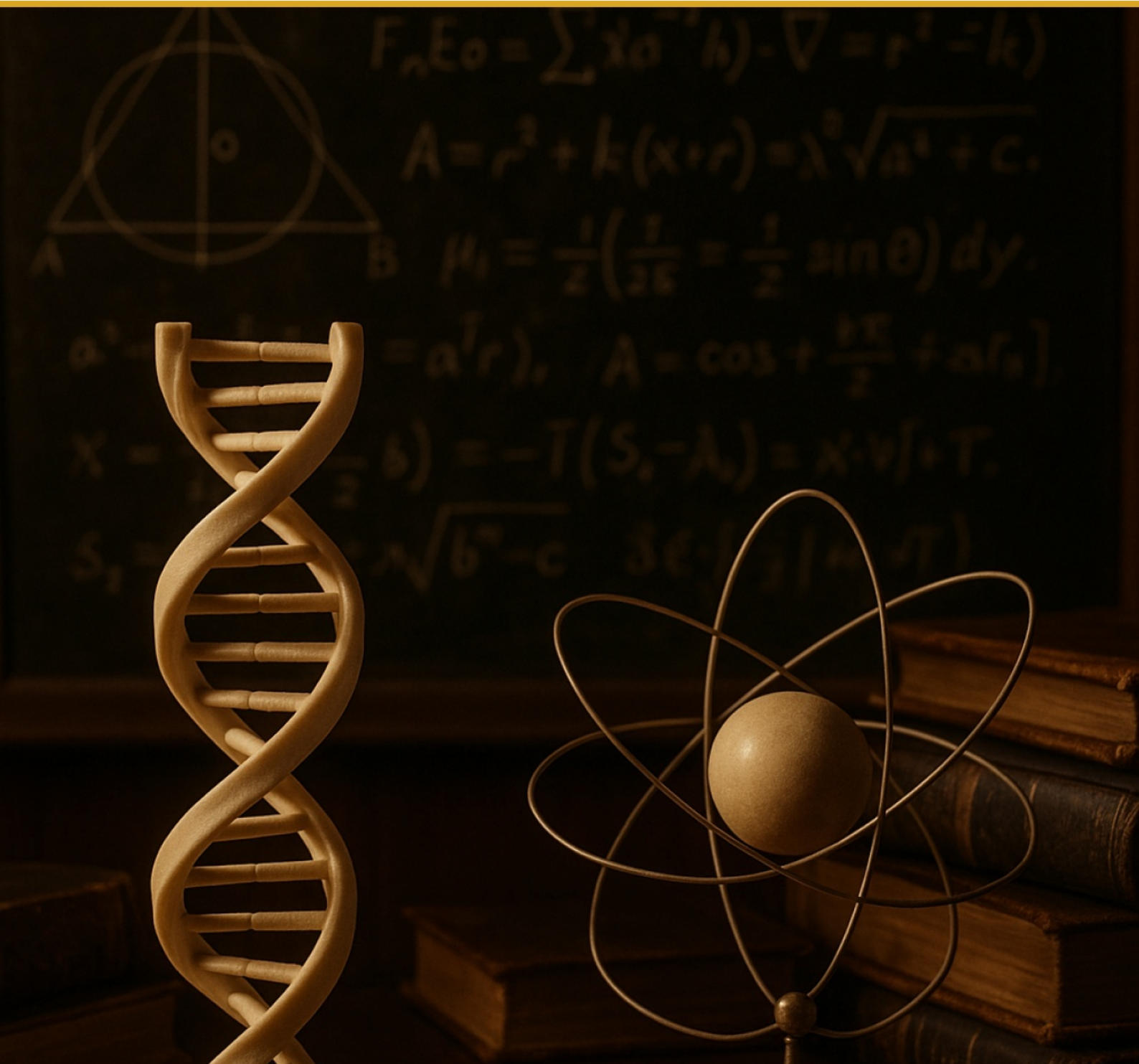


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Analyzing Climate Adaptation Mechanisms in Diverse Ecosystems: A Comparative Study Across Continents

Marija Horvat, Dwi Putra, Fatou Ndiaye

Marija Horvat, University of Rijeka, Rijeka, Croatia; Dwi Putra, Gadjah Mada University, Yogyakarta, Indonesia; Fatou Ndiaye, Cheikh Anta Diop University, Dakar, Senegal

Keywords: climate adaptation, ecosystems, phenotypic plasticity, phenology, conservation strategies, environmental changes

2.

Exploring Homotopy Equivalences in Infinite-Dimensional Topological Spaces

Li Wei, Fatemeh Al-Saleh, Luís Fernández, John Mamba

University of Tartu, Tartu, Estonia; University of Dhaka, Dhaka, Bangladesh; University of Tasmania, Hobart, Australia

Keywords: homotopy equivalence, infinite-dimensional spaces, simplicial complexes, spectral sequences, algebraic topology, geometric group theory

3.

Comparative Efficacy of Novel Antiviral Agents in Treating Viral Hepatitis: A Multinational Study

Sofia Grant, Enkhbayar Bat-Erdene, Nia Ayodele

University of Coimbra, Coimbra, Portugal; National University of Mongolia, Ulaanbaatar, Mongolia; Makerere University, Kampala, Uganda

Keywords: viral hepatitis, antiviral agents, randomized controlled trial, liver function, global health, treatment efficacy

4.

Assessing Fiscal Policies' Impact on Emerging Economies: A Macroeconomic Perspective

Tariro Nkomo, Emilio Fernandez, Aisha Khan

University of Zimbabwe, Harare, Zimbabwe; National University of La Plata, La Plata, Argentina; Oklahoma State University, Stillwater, USA

Keywords: fiscal policy, macroeconomic stability, emerging economies, econometric models, inflationary pressures, economic growth

5.

Innovative Electrochemical Sensors for Pesticide Detection in Agricultural Runoff Waters

Ana Maria Gonçalves, Akira Yamamoto, Fatima Al-Mansouri

University of Coimbra, Coimbra, Portugal; University of Vermont, Burlington, USA; Central University of Venezuela, Caracas, Venezuela

Keywords: electrochemical sensors, graphene oxide, metal-organic frameworks, differential pulse voltammetry, pesticide detection, water quality monitoring

6.

Enhancing Pattern Recognition in Data Mining Using Hybrid Algorithms for Improved Decision-Making

Lars Bergström, Min-ji Kim, Fatima Al-Mazrouei, Santiago Morales

Nicolaus Copernicus University, Toruń, Poland; University of Colombo, Colombo, Sri Lanka; Al-Baath University, Homs, Syria

Keywords: data mining, hybrid algorithms, pattern recognition, decision trees, k-means clustering, supervised learning, unsupervised learning, computational efficiency

7.

Elucidating RNA Processing Mechanisms: Insights into Splicing and Polyadenylation Pathways

Dr. Fatima Al-Mutairi, Dr. Arif Prasetyo, Dr. Helena Kovács

Dr. Fatima Al-Mutairi - Jordan University of Science and Technology, Irbid, Jordan; Dr. Arif Prasetyo - Gadjah Mada University, Yogyakarta, Indonesia; Dr. Helena Kovács - University of Manitoba, Winnipeg, Canada

Keywords: RNA processing, splicing, polyadenylation, next-generation sequencing, RNA-binding proteins, gene expression

8.

Innovative Strategies for Sustainable Pest Management in Global Agricultural Systems

Dr. Hans Müller, Prof. Reem Al-Masri, Dr. Lin Chang

Dr. Hans Müller: University of Rostock, Rostock, Germany; Prof. Reem Al-Masri: Jordan University of Science and Technology, Irbid, Jordan; Dr. Lin Chang: Oklahoma State University, Stillwater, USA

Keywords: biological control, precision agriculture, pest resistance, genetic analysis, sustainable farming, crop protection

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