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Evaluating Efficacy and Safety of Novel Antiviral Agents in Acute Hepatitis C: A Multinational Trial

Thijs van der Meer, Zubaida Al-Khour, Mei-Ling Chen

University of Graz, Graz, Austria; Baku State University, Baku, Azerbaijan; Federal University of Pernambuco, Recife, Brazil

Keywords: Hepatitis C, antiviral agents, clinical trial, virological response, safety profile, randomized, placebo-controlled

2.

Global Patterns and Mechanisms of Antimicrobial Resistance in Clinical Isolates: A Multinational Study

Dr. Maria Santana, Dr. Yasmin Al-Hakim, Dr. Niran Chit-pong

Chiang Mai University, Chiang Mai, Thailand; Addis Ababa University, Addis Ababa, Ethiopia; Federal University of Pernambuco, Recife, Brazil

Keywords: antimicrobial resistance, multidrug-resistant strains, horizontal gene transfer, mutation hotspots, genomic sequencing, healthcare practices

3.

Advancements in Thermodynamic Cycles for Enhanced Energy Efficiency in Power Plants

Mahmoud Aziz, Sakura Nakamura, Juan Carlos Fernández

University of Dhaka, Dhaka, Bangladesh; University of Dar es Salaam, Dar es Salaam, Tanzania; Central University of Venezuela, Caracas, Venezuela

Keywords: thermodynamic cycles, energy efficiency, power plants, thermal efficiency, working fluids, emissions reduction

4.

Exploring the Epigenetic Modulation of Gene Expression in Stress Response Mechanisms

Lars Zimmermann, Hiroko Takeda, Amina Safayati

University of Rostock, Rostock, Germany; Kanazawa University, Kanazawa, Japan; Ferdowsi University of Mashhad, Mashhad, Iran

Keywords: epigenetics, gene expression, stress response, DNA methylation, histone modification, non-coding RNAs

5.

Investigating Topological Properties in Non-Hausdorff Spaces Using Constructive Sequence Methods

Arvydas Dargis, Mei-Lin Cheng, Fatima Al-Hashimi

Vilnius University, Vilnius, Lithuania; Makerere University, Kampala, Uganda; University of Antioquia, Medellín, Colombia

Keywords: non-Hausdorff spaces, topological properties, constructive sequences, convergence, continuity, topology

6.

Advanced Nonlinear Optical Phenomena in Metamaterials: Theoretical and Experimental Insights

Jan Nowak, Li Wei, Farah Ahmed, Maria Gonzalez

Nicolaus Copernicus University, Toruń, Poland; Lanzhou University, Lanzhou, China; University of Dhaka, Dhaka, Bangladesh

Keywords: metamaterials, nonlinear optics, third-order nonlinear effects, photonic devices, optical Kerr effect, self-focusing

7.

Exploring the Impact of Adaptive Learning Technologies in Multicultural E-Learning Environments

Bruno Martins, Aisha Khan, Seong-Jin Kim

*University of Coimbra, Coimbra, Portugal; Kyungpook National University, Daegu, South Korea;
University of Canterbury, Christchurch, New Zealand*

*Keywords: adaptive learning, multicultural education, e-learning, personalization, engagement,
educational technology*

8.

The Role of Institutional Quality in Economic Development: A Comparative Analysis of Emerging Economies

Ladislav Novák, Aisha Al-Mahmoud, Yu Chen, María Fernanda López

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Guadalajara, Guadalajara, Mexico*

*Keywords: institutional quality, economic development, emerging economies, governance, policy
reform, econometric modeling*

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