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Adaptive Strategies in Viral Evolution: Insights from Molecular Phylogenetics and Genomic Mechanisms

Sophia Papadopoulos, Harun Amarasinghe, Aigerim Dzhumagulova

Keywords: viral evolution, molecular phylogenetics, genomic analysis, mutation rates, host immune evasion, drug resistance

2.

Exploring Multisensory Approaches in Special Education: Enhancing Learning Outcomes for Diverse Needs

Ana María Rodríguez, Hiroshi Tanaka, Fatima El-Hasan

Keywords: multisensory learning, special education, instructional strategies, learning disabilities, educational outcomes, personalized education

3.

Integrated Pest Management: Enhancing Crop Yield and Sustainability in Developing Regions

Ana Rodríguez, Kenji Tanaka, Aliyah Khalil

Keywords: integrated pest management, sustainable agriculture, crop yield, biological control, pest reduction, ecological balance

4.

Evaluating Cognitive Behavioral Therapy Efficacy in Diverse Populations with Anxiety Disorders

Aisha Al-Khalili, Thomas Mbengue, Juan Hernandez

Keywords: cognitive behavioral therapy, anxiety disorders, cultural adaptation, generalized anxiety disorder, treatment efficacy, cross-cultural psychology

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5.

Exploring Dark Matter Distribution in Spiral Galaxies Using Gravitational Lensing Effect

Luis Fernando Mendoza, Sara Alizadeh, Koji Tanaka

Keywords: dark matter, gravitational lensing, spiral galaxies, Newtonian dynamics, quantum gravity, galactic rotation curves

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6.

Exploring the Role of Microbial Metabolites in Modulating Human Cellular Metabolism

Arjun Mitra, Yara Ibrahim, Carlos Nascimento, Suphanat Jaitawat

Keywords: microbial metabolites, cellular metabolism, short-chain fatty acids, metabolomic analysis, lipid oxidation, glucose utilization

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7.

Enhanced Neural Network Architectures for Robust Multilingual Natural Language Processing

Mateo Silva, Yasemin Tekin, Ayaan Fara

Keywords: machine learning, neural networks, NLP, multilingual processing, transformer models, sentiment analysis

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8.

Influence of Cultural Diversity on Decision-Making in Behavioral Economics: An Empirical Study

Tendai Chikafu, Lamis Al-Mansouri, Yukiko Nakamura

Keywords: behavioral economics, cultural diversity, decision-making, economic models, risk aversion, social norms