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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

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

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

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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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