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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*

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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*

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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*

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### **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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### **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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### **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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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*