文献清单：系统发育相关研究进展 MDPI Genes

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期刊主页：https://www.mdpi.com/journal/genes

Genes文献清单，为您提供系统发育方向的研究热点

系统发育学是一门研究生物类群间进化关系的学科，通过构建生命之树来追溯物种的起源、演化和亲缘关系。随着测序技术的飞速发展，现代系统发育分析已从依赖单个基因，迈入了利用线粒体基因组、叶绿体基因组以及基因家族等大规模数据的系统基因组学时代。

这些基因组数据如同详尽的进化档案，不仅能揭示物种的分子结构特征，厘清长期存在争议的分类学问题，还能深入探究关键性状的起源与进化。例如，通过比较基因组分析，我们可以追溯特定类群的分化时间和进化动力，甚至为野生近缘种的保护提供关键的分子依据。这一强大工具帮助我们从不同生物类群出发，描绘出一幅幅生动的生命进化图景。

1. Complete Mitochondrial Genome of Four Peristediidae Fish Species: Genome Characterization and Phylogenetic Analysis

四种黄鲂鲉科鱼类的完整线粒体基因组：基因组特征与系统发育分析

https://www.mdpi.com/2073-4425/15/5/557

Liao, X.; Shih, Y.; Jia, C.; Gao, T. Complete Mitochondrial Genome of Four Peristediidae Fish Species: Genome Characterization and Phylogenetic Analysis. Genes 2024, 15, 557.

2. Revision of the Most Primitive Taxa of the Family Gyrodactylidae (van Beneden et Hesse, 1864) (Platyhelminthes, Monopisthocotyla) Based on ITS rDNA Phylogeny

基于ITS rDNA系统发育的三代虫科基部类群的修订（van Beneden et Hesse, 1864）（扁形动物门，单后盘纲）

https://www.mdpi.com/2073-4425/15/9/1236

Janulewicz, J.; Pietkiewicz, M.; Zietara, M.S. Revision of the Most Primitive Taxa of the Family

Gyrodactylidae (van Beneden et Hesse, 1864) (Platyhelminthes, Monopisthocotyla) Based on ITS rDNA Phylogeny. Genes 2024, 15, 1236.

3. The First Three Mitochondrial Genomes for the Characterization of the Genus Egeirotrioza (Hemiptera: Triozidae) and Phylogenetic Implications

首批三个线粒体基因组用于界定胡杨个木虱属（半翅目：个木虱科）及其系统发育意义

https://www.mdpi.com/2073-4425/15/7/842

Aishan, Z.; Mu, Z.-L.; Li, Z.-C.; Luo, X.-Y.; Huangfu, N. The First Three Mitochondrial Genomes for the Characterization of the Genus Egeirotrioza (Hemiptera: Triozidae) and Phylogenetic Implications. Genes 2024, 15, 842.

4. Phylo-Epigenetics in Phylogeny Analyses and Evolution

系统发育分析及进化中的系统发育表观遗传学

https://www.mdpi.com/2073-4425/15/9/1198

Santourlidis, S. Phylo-Epigenetics in Phylogeny Analyses and Evolution. Genes 2024, 15, 1198.

5. The Complete Mitochondrial Genome of Aspidophorodon (Eoessigia) indicum (Hemiptera: Aphididae: Aphidinae) and Insights into Its Phylogenetic Position

印度盾疣蚜属指名亚属（半翅目：蚜科：蚜亚科）的完整线粒体基因组及其系统发育位置探讨

https://www.mdpi.com/2073-4425/16/8/979

Ding, J.; Zhang, X.; Jiang, L.; Qiao, G.; Chen, J. The Complete Mitochondrial Genome of Aspidophorodon (Eoessigia) indicum (Hemiptera: Aphididae: Aphidinae) and Insights into Its Phylogenetic Position. Genes 2025, 16, 979.

6. Chloroplast Genomes of Vitis flexuosa and Vitis amurensis: Molecular Structure, Phylogenetic, and Comparative Analyses for Wild Plant Conservation

葛藟葡萄与山葡萄的叶绿体基因组：用于野生植物保护的分子结构、系统发育及比较分析

https://www.mdpi.com/2073-4425/15/6/761

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7. Comparative Analysis of Chloroplast Genomes for the Genus Manglietia Blume (Magnoliaceae): Molecular Structure and Phylogenetic Evolution

木莲属（木兰科）叶绿体基因组的比较分析：分子结构与系统发育演化

https://www.mdpi.com/2073-4425/15/4/406

Li, T.; Zhang, S.; Deng, Y.; Li, Y. Comparative Analysis of Chloroplast Genomes for the Genus Manglietia Blume (Magnoliaceae): Molecular Structure and Phylogenetic Evolution. Genes 2024, 15, 406.

8. Insights into Phylogeny, Taxonomy, Origins and Evolution of Crataegus and Mespilus, Based on Comparative Chloroplast Genome Analysis

基于叶绿体基因组比较分析的山楂属与欧楂属的系统发育、分类、起源及演化

https://www.mdpi.com/2073-4425/16/2/204

Meng, J.; Wang, Y.; Song, H.; Dong, W.; Dong, N. Insights into Phylogeny, Taxonomy, Origins and Evolution of Crataegus and Mespilus, Based on Comparative Chloroplast Genome Analysis. Genes 2025, 16, 204.

9. Exploring Plastomic Resources in Sempervivum (Crassulaceae): Implications for Phylogenetics

探索长生草属（景天科）的质体基因组资源：对系统发育研究的启示

https://www.mdpi.com/2073-4425/15/4/441

Kan, J.; Zhang, S.; Wu, Z.; Bi, D. Exploring Plastomic Resources in Sempervivum (Crassulaceae): Implications for Phylogenetics. Genes 2024, 15, 441.

10. The PLA Gene Family in Tomato: Identification, Phylogeny, and Functional Characterization

番茄PLA基因家族：鉴定、系统发育及功能特征分析

https://www.mdpi.com/2073-4425/16/2/130

Li, Z.; Yao, Z.; Ruan, M.; Wang, R.; Ye, Q.; Wan, H.; Zhou, G.; Cheng, Y.; Guo, S.; Liu, C.; et al. The PLA Gene Family in Tomato: Identification, Phylogeny, and Functional Characterization. Genes 2025, 16, 130.

Genes期刊介绍

主编：Selvarangan Ponnazhagan, The University of Alabama at Birmingham, USA

期刊主题涵盖了与DNA、RNA、染色体、基因、遗传学和多组学相关的所有内容。下设18个专题，从人类、动物、植物、微生物、分子遗传、种群进化和高新技术等多个角度全方位审视遗传学和基因组学的前沿研究。

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