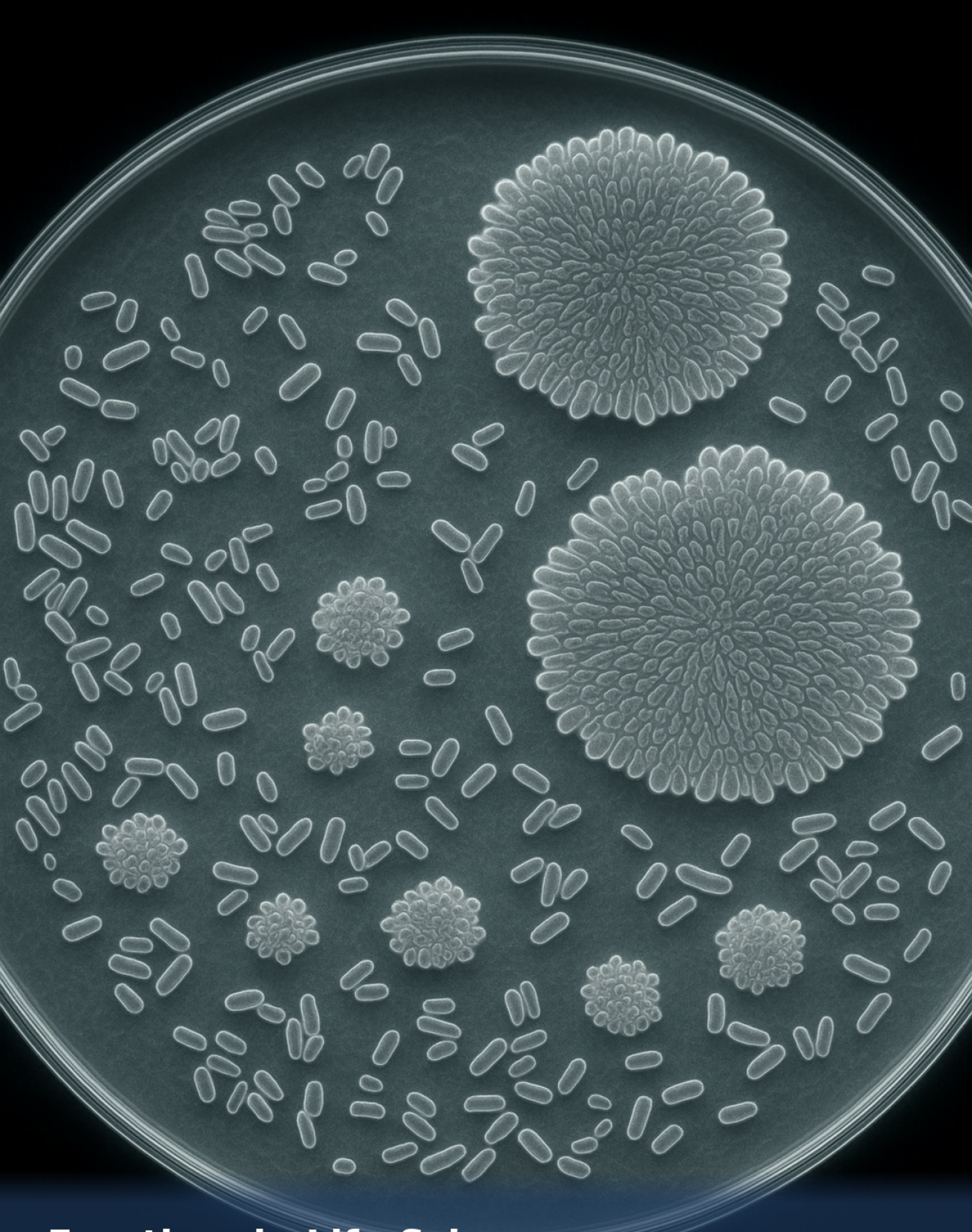




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Table of Contents

Volume 20, Issue 8 — August 2026

Research Articles

1.

Adaptive Management Strategies for Enhancing Biodiversity in Fragmented Landscapes

Sebastian Müller, Nobuko Yamamoto, Aarav Desai

Keywords: biodiversity, adaptive management, landscape fragmentation, habitat corridors, species richness, genetic diversity, reforestation

2.

Advancements in mRNA Vaccine Platforms: A Promising Avenue for Immunotherapeutic Developments

Hans-Jürgen Bauer, Meera N. Venkataraman, Sung-Min Park

Keywords: mRNA vaccines, immunogenicity, seroconversion rate, translational efficiency, viral antigens, vaccine platforms

3.

Transcriptional Dynamics and Regulatory Mechanisms in Early Human Embryonic Gene Expression

Anita K. Langer, Chen Hui-ming, Ayaan Al-Mansour

Keywords: gene expression, transcriptional dynamics, embryonic stem cells, chromatin accessibility, pluripotency, enhancer regions, histone modifications

4.

Elucidating the Role of Calcium Oscillations in Modulating T-Cell Receptor Signaling Pathways

Anja L. Müller, Hiroshi Yamamoto, Nneka Chukwuma

Keywords: Calcium oscillations, T-cell receptor, NFAT signaling, MAPK pathway, live-cell imaging, immune modulation

5.

Molecular Mechanisms Underlying Limb Regeneration in Axolotl: A Genetic Perspective

Hans Müller, Sofia González-Mendez, Li Wei-Tao

Keywords: axolotl, limb regeneration, Wnt signaling, gene regulation, CRISPR-Cas9, miRNA, blastema

6.

Deciphering the Catalytic Triad Mechanism in Serine Proteases: A Comparative Study

Jürgen F. Schmidt, Lin Shuang-Yuan, Amal O. Al-Rashid

Keywords: serine proteases, catalytic triad, enzyme kinetics, site-directed mutagenesis, substrate specificity, molecular dynamics

7.

Integrative Genomic Approaches for Unveiling Gene-Environment Interactions in Complex Traits

Hans-Peter Müller, Akira Yoshida, Priyanka Patel

Keywords: genomics, gene-environment interactions, complex traits, computational biology, machine learning, epigenomics, transcriptomics

8.

Elucidating the Role of Auxin in Regulating Lateral Root Development in Arabidopsis thaliana

Lena M. van Dijk, Arun B. Natarajan, Hiroto Yamashita

Keywords: auxin, lateral root development, Arabidopsis thaliana, CRISPR-Cas9, ARF7, ARF19, gene expression