

Editorial

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Editorial Abstract — This editorial introduces Volume 2, Issue 1 of *AEPTIC*, presenting the conceptual developments and the articles included in this issue.

Keywords— AEPTIC; Phase-network biology; Bioelectromagnetics; Phase synchronization; Earth–life coupling

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THIS ISSUE presents works developed within the research programs of DohaTeslaLab, structured as interconnected projects and publications. Individual papers function not as isolated outputs, but as components of a unified, evolving framework.

This issue includes six papers—four from Season 1 and two from Season 2—exploring biological, environmental, and planetary systems through phase-based, coherence-centered perspectives.

Articles in this Issue

A Phase-Based Framework for Respiration: Linking Biological Oscillators and Environmental Variability

Nonlinear Seasonal Synchronization via Phase Compression Dynamics: A Conceptual Framework for Biological Timing

A Phase-Resonance-Based Framework for Temporal Organization and Biological Coherence

A Resonance-Based Model of Human Biological Organization

Planetary Bioelectromagnetic Coherence: A Phase-Field Framework for Earth–Life Coupling and Phase Instability

Focus on Phase-Resonant Morphogenesis: A Conceptual Framework for Interpreting Microplastic–Biological Interactions

These studies reflect a common direction expressed across different domains: they describe systems as interconnected, dynamic structures rather than isolated entities, raising a fundamental question: how should humans be understood within natural systems. Human systems exhibit instability not only due to external conditions, but due to how reality is interpreted and organized. While humans perceive themselves as separate individuals or groups, they biologically exist as interconnected systems shaped by continuous interaction with environments, microorganisms, and internal processes, with differences across humanity reflecting adaptation rather than fundamental separation. Developmentally, human populations form a continuous lineage—effectively a single extended family.

Yet this interconnectedness is often obscured by language and conceptual structures, through which differences become opposition and perception is abstracted from direct experience. As a result, internally registered experience is frequently reorganized into strategic or economic terms, where calculation takes precedence over sensitivity. The limitation is not the absence of perception, but the capacity to override it.

In contrast, natural systems operate through coexistence and interdependence, where stability emerges from coordinated differences. The central issue, therefore, is not diversity itself, but the failure to recognize interconnected structure.

The works in this issue are situated within this perspective, proposing alternative ways of organizing and interpreting complex systems. *AEPTIC* documents and develops these perspectives as an independent, non-profit academic platform, with the aim of informing how biological, environmental, and human systems are understood and engaged in practice.