Regenesis Self Organized Bioelectricity Via Collective Pump Alignment Physical Origin Publication V1

Abstract

This publication provides a structured synthesis for Regenesis Self Organized Bioelectricity Via Collective Pump Alignment Physical Origin Publication V1, with claim-to-evidence framing and a validation path for downstream readers.

Keywords

regenesis, research, publication

Main Content

Self-Organized Bioelectricity via Collective Pump Alignment Physical Origin of Chemiosmosis

Cohera Lab

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Thread: Regenesis

Abstract

This manuscript promotes an in-progress regenesis research stream into a publication-ready synthesis. It distills current evidence, makes assumptions explicit, and defines falsification hooks for next-cycle validation.

Keywords regenesis, synthesis, publication

1 Introduction

Autodraft · Self-Organized Bioelectricity via Collective Pump Alignment Physical Origin of Chemiosmosis · Cohera Lab Cohera Lab Home Research Cosmos Regenesis Ethos Publications About Autodraft: Self-Organized Bioelectricity via Collective Pump Alignment Physical Origin of Chemiosmosis Date: 2026-02-23 · Thread: regenesis · Status: extracted-draft · Confidence: low-medium Source chatgpt/pdf/Self-Organized_Bioelectricity_via_Collective_Pump_Alignment_Physical_O DOI: not detected automatically. Auto summary (preview-based) Self-Organized Bioelectricity via Collective Pump Alignment: Physical Origin of Chemiosmosis Ryosuke Nishide ∗ and Kunihiko Kaneko arXiv:2602.16171v1 [physics.bio-ph] 18 Feb 2026 Niels Bohr Institute, University of Copenhagen, Jagtvej 155 A, Copenhagen N, 2200, Denmark Chemiosmosis maintains life in nonequilibrium through ion transport across membranes, yet the origin of this order remains unclear. We develop a minim Key findings (auto-extracted) Primary topic appears to center on: self, organized, bioelectricity, collective. Source was auto-indexed and text-previewed for rapid triage. Needs manual verification before promoting any strong claim to high confidence. Evidence & citations Source file: chatgpt/pdf/Self-Organized_Bioelectricity

2 Evidence and Claims

_via_Collective_Pump_Alignment_Physical_Origin_of_Chemiosmosis.pdf Extraction scope: 1-2 Abstract/preview extracted automatically. Claim → evidence mapping (auto) Claim: Self-Organized Bioelectricity via Collective Pump Alignment: Physical Origin of Chemiosmosis Ryosuke Nishide ∗ and Kunihiko Kaneko arXiv:2602.16171v1 [physics.bio-ph] 18 Feb 2026 N... Evidence quote: “Self-Organized Bioelectricity via Collective Pump Alignment: Physical Origin of Chemiosmosis Ryosuke Nishide ∗ and Kunihiko Kaneko arXiv:2602.16171v1 [physics.bio-ph] 18 Feb 2026 Niels Bohr Institute, University of Copenhagen, Jagtvej 155 A, Copenhagen N, 2200, Denmark Chemiosmosis maintains life in nonequilibrium through ion transport across membranes, yet the origin of this order remains unclear.” Page hint: 1-2 Claim: We develop

a minimal model in which ion pump orientation and the intracellular electrochemical potential mutually reinforce each other. Evidence quote: “We develop a minimal model in which ion pump orientation and the intracellular electrochemical potential mutually reinforce each other.” Page hint: 1-2 Claim: This model shows that fluctuations can induce collective pump alignment and the formation of a membrane potential. Evidence quote: “This model shows that fluctuations can induce collective pump alignment and the formation of a membrane potential.” Page hint: 1-2 Falsification / validation chec

3 Discussion

klist Re-read full source and verify the central claim sentence-by-sentence. Cross-check against at least one independent source before promotion. Keep confidence at low-medium until replication or corroboration is explicit. Next queries What is the smallest testable claim from this source?

4 Validation Hooks

- Verify central claims against primary paper and DOI source.
- Separate measured evidence from interpretation in final revision.
- Keep confidence conservative until corroboration is explicit.