



# Embryos, Galaxies, and Sentient Beings: How the Universe Makes Life

*Richard Grossinger*

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Why is the universe conscious? What kindles mind inside matter? Why do fundamentalist sciences and religions never ask these questions? This sequel to *Embryogenesis* deals with the theoretical issues brought up by *Embryogenesis*, including: the relationship between thermodynamics/entropy and the emergence of life; a speculative set of embryogenic principles for all creatures on all planets in the cosmos; an explanation and critique of Intelligent Design and a proposal for a more dynamic psychospiritual theory of creature development; a series of alternatives to genetic determinism; a discussion of the relationship between consciousness and matter; an interjection of 9/11 (which occurred during the writing of this book); and many other topics. Chapters include: What is Life?: Evolution, Thermodynamics, and Complexity; Is There a Plan?: Creationism, Cultural Relativism, and Paraphysics; Biogenesis and Cosmogenesis: Cells, Genes, and Planets; The Principles of Biological Design: Physical Forces in Nature; The Dynamics of the Biosphere: Deep Time and Space; The Limits of Genetic Determinism: Dimensionless Epigenetic Landscapes; Topokinesis: Physical Forces in Development; Tissue Motifs and Body Plans: Coordinating Form; The Primordial Field: Metabiology and The Molecular Apparatus; Meaning and Destiny: The Relation of Consciousness to Matter

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