

1. Record Nr.	UNINA9911019181603321
Autore	Gordon Richard
Titolo	Origin of Life Via Archaea : Shaped Droplets to Archaea First, with a Compendium of Archaea Micrographs
Pubbl/distr/stampa	Newark : , : John Wiley & Sons, Incorporated, , 2024 ©2024
ISBN	9781119901228 1119901227 9781119901204 1119901200 9781119901211 1119901219
Edizione	[1st ed.]
Descrizione fisica	1 online resource (1153 pages)
Collana	Astrobiology Perspectives on Life in the Universe Series
Disciplina	576.83
Soggetti	Life - Origin Exobiology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This book explores the scientific inquiries into the origin of life, focusing on the interplay of physics and chemistry. It examines various hypotheses, including the role of polygonal shapes in cells, the properties of oil droplets, and the concept of tensegrity. The text delves into the emergence of life from abiotic conditions, the possible contribution of the Archaea domain, and models such as the Fish Ladder and the S-Layer. The book also discusses the contribution of cosmic events like the Late Heavy Bombardment to life's origins. Designed for scientific researchers and students in fields like astrobiology and biochemistry, it provides a comprehensive survey of current theories and scientific evidence regarding how life may have originated on Earth.