1. Record Nr. UNINA9910830299203321

Titolo	Conflicting models for the origin of life / / edited by Stoyan K. Smoukov, Joseph Seckbach, Richard Gordon
Pubbl/distr/stampa	Hoboken, New Jersey ; ; Beverly, Massachusetts : , : John Wiley & Sons, Inc. : , : Scrivener Publishing LLC, , [2023] ©2023
ISBN	1-119-55556-6 1-119-55555-8
Descrizione fisica	1 online resource (504 pages)
Disciplina	050
Soggetti	Astronomy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover -- Title Page -- Copyright Page -- Contents -- Foreword, "Are There Men on the Moon?" by Winston S. Churchill -- Preface -- Appendix to Preface by Richard Gordon and George Mikhailovsky -- Part I: Introduction to the Origin of Life Puzzle -- Chapter 1 Origin of Life: Conflicting Models for the Origin of Life -- 1.1 Introduction -- 1.2 Top-Down Approach-The Phylogenetic Tree of Life -- 1.3 Bottom-Up Approach-The Hypotheses -- 1.4 The Emergence of Chemolithoautotrophs and Photolithoautotrophs? -- 1.5 Viruses: The Fourth Domain of Life? -- 1.6 Where are We with the Origin of Life on Earth? -- References -- Chapter 2 Characterizing Life: Four Dimensions and their Relevance to Origin of Life Research -- 2.1 Introduction -- 2.2 The Debate About (Defining) Life -- 2.2.1 The Debate and the Meta-Debate -- 2.2.2 Defining Life is Only One Way to Address the Question "What is Life?" -- 2.3 Does Origin of Life Research Need a Characterization of Life? -- 2.4 Dimensions of Characterizing Life -- 2.4.1 Dimension 1: Dichotomy or Matter of Degree? -- 2.4.2 Dimension 2: Material or Functional? -- 2.4.3 Dimension 3: Individual or Collective? -- 2.4.4 Dimension 4: Minimal or Inclusive -- 2.4.5 Summary Discussion of the Dimensions -- 2.5 Conclusion -- Acknowledgments -- References -- Chapter 3 Emergence, Construction, or Unlikely? Navigating the Space of Questions Regarding