

1. Record Nr.	UNINA9910782092303321
Autore	Meierhenrich Uwe
Titolo	Amino acids and the asymmetry of life [[electronic resource]] : caught in the act of formation / / Uwe Meierhenrich ; with a foreword by Henri B. Kagan
Pubbl/distr/stampa	Berlin, : Springer, c2008
ISBN	1-281-86226-6 9786611862268 3-540-76886-6
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (258 p.)
Collana	Advances in astrobiology and biogeophysics
Disciplina	572.65 576.83
Soggetti	Exobiology Life - Origin Asymmetry (Chemistry)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Tracing Life's Origin: From Amino Acids to Space Mission ROSETTA -- Stereochemistry for the Study of the Origin of Life -- Minority Report: Life's Chiral Molecules of Opposite Handedness -- When Crystals Deliver Chirality to Life -- When Parity Falls: The Weak Nuclear Interaction -- Chiral Fields: Light, Magnetism, and Chirality -- Key to the Prebiotic Origin of Amino Acids -- A New Record for Chiral Molecules in Meteorites -- The New Space Race: Chiral Molecules on Comets and on Mars -- Accelerating the Carousel: Amplification Mechanisms.
Sommario/riassunto	"How did life originate and why were left-handed molecules selected for its architecture?" This question of high public and interdisciplinary scientific interest is the central theme of this book. It is widely known that in processes triggering the origin of life on Earth, the equal occurrence, the parity between left-handed amino acids and their right-handed mirror images, was violated. The balance is inevitably tipped to the left – provoking that life's proteins today exclusively implement the left form of amino acids. Written in an intoxicating style,

this book describes how the basic building blocks of life, the amino acids, formed. After a comprehensible introduction into stereochemistry, the author addresses the inherent property of amino acids in living organisms, namely the preference for left-handedness. What was the cause for violation of parity of amino acids in the emergence of life on Earth? All the fascinating models proposed by physicists, chemists and biologist are vividly presented including the scientific conflicts. The author describes the attempt to verify any of those models with the chirality module of the ROSETTA mission, a probe built and launched with the mission to land on a comet and analyse whether there are chiral organic compounds that could have been brought to the Earth by cometary impacts. A truly interdisciplinary astrobiology book, "Amino Acids and the Asymmetry of Life", will fascinate students, researchers and all readers with backgrounds in natural sciences.. With a foreword by Henri B. Kagan.

2. Record Nr.	UNINA9910815058103321
Autore	Barral Georges
Titolo	Histoire des sciences sous Napoleon Bonaparte / / Georges Barral
Pubbl/distr/stampa	[Place of publication not identified] : , : Ligaran, , 2015 ©2015
ISBN	2-335-07503-9
Descrizione fisica	1 online resource (158 pages)
Disciplina	509.44
Soggetti	Science - France - History
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia