

CHEMICAL EVOLUTION AND THE ORIGIN OF LIFE

A Comprehensive Bibliography

Compiled by

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(Received 17 June, 1970)

Introduction

The compilation of this bibliography was undertaken in order to provide a comprehensive guide to the literature dealing with chemical evolution and the origin of life.

The major portion and emphasis of the literature cited stems from the pioneer work of A. I. Oparin. However, some few references to the largely philosophical literature of the 19th century are included insofar as they prefigure Oparin's ideas. Focus has been upon that experimental and theoretical material dealing directly with the concepts of chemical evolution and the origin of life; the broader areas of exobiology, biological evolution, and geochemistry have been excluded. Even so, this bibliography which covers most of the literature published through 1969 contains almost 1600 items.

An attempt has been made to examine each of the references cited in the original, but this has not always been possible. The retrieval services of NASA, STIF, and MEDLARS were utilized to supplement the manual retrospective searching of both the primary and secondary literature. In spite of the most rigorous efforts to the contrary, some pertinent references will have been overlooked. The compilers will be most grateful to have these brought to their attention; the omissions can then be incorporated into a projected supplement which will cover the 1970 literature.

Arrangement is alphabetical by author with earliest reference first. The authority for journal title abbreviations is ACCESS, a Chemical Abstracts Service publication, or *Biological Abstracts*.

It is very seldom that a work of bibliography is one person's alone; much of the seemingly endless detailed checking and rechecking was undertaken by Mrs. Darlene Howard, Mrs. Sheila Hunter, and Mrs. Marilyn Goodman, to whom we wish to express our deepest appreciation. We are also most grateful for the continued cooperation and assistance of the NASA Ames Life Sciences Library Staff, under the direction of Mrs. Betty Sherwood, without whom this work could not have been completed.

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