

References for further reading

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(from *Extraterrestrial Life*)

Website

In addition to the books listed below, the website below includes links to more current sources of information. It is organized around the Drake equation.

<http://www.as.utexas.edu/astronomy/education/spring08/evans/3091.html?a=links>

Books and articles

The first list of books includes books on the overall subject or which cover several aspects of the subject:

- *The Search for Life in the Universe* by D. Goldsmith and T. Owen
- *Here Be Dragons: The Scientific Quest for Extraterrestrial Life* by D. Koerner and S. Levay
- *Interstellar Communication: Scientific Perspectives* ed. by C. Ponnampereuma and A. Cameron
- *Extraterrestrials — Where Are They?* ed. by M. Hart and B. Zuckerman
- *Life Beyond Earth* by Feinberg and Shapiro
- *Intelligent Life in the Universe* by C. Sagan and I. S. Shklovskii
- *Bioastronomy: The Search for Extraterrestrial Life* ed. by J. Heidman and M. J. Klein
- *The Universe and Life* by S. Kutter
- *Life in the Universe*, *Scientific American*, October 1994
- *Are We Alone?* by P. Davies (Philosophical implications)
- *Paradigms Lost* by J. L. Casti
- *Progress in the Search for Extraterrestrial Life* (San Francisco: Astronomical Society of the Pacific) ed. by G. S. Shostak
- *Astronomical and Biochemical Origins and the Search for Life in the Universe (IAU Colloquium 161)*

- *Sharing the Universe: Perspectives on Extraterrestrial Life* by S. Shostak
- *Is Anyone Out There? The Scientific Search for Extraterrestrial Intelligence* by F. Drake and D. Sobel

Another category of references includes those suitable for a term research paper. The best terms papers are those where your own interest leads you to references that I do not yet know about. However, if you are really stuck, you might try reading some of the following items, which are arranged roughly by topic.

- Cosmic evolution: Origin and evolution of the Universe
 - *The Inflationary Universe* by A. H. Guth
 - *The Accelerating Universe* by M. Livio
- Biological Evolution
 - Origin of life
 - * *The Origins of Life* by C. Ponnampertuma
 - * *The Origin of Life* by C. Folsome
 - * *Origins of Life* by F. Dyson
 - * *Origins, A Skeptics Guide to the Creation of Life on Earth* by R. Shapiro
 - * *Frontiers of Life* ed. by J. and K. Tran Thanh Van, J. C. Mounolou, J. Schneider, and C. McKay
 - * *Origins of Life: The Central Concepts* (A collection of original papers) ed. by D. Deamer and G. Fleischaker
 - * *Vital Dust: The Origin and Evolution of Life on Earth* by Christian de Duve
 - * *Origins of Life on the Earth and in the Cosmos* by G. Zubay. Useful for those with a good knowledge of biochemistry.
 - Evolution in General
 - * *Darwin to DNA, Molecules to Humanity* by Stebbins
 - * *Five Kingdoms* by L. Margulis and K. V. Schwartz
 - * *Wonderful Life* by S. J. Gould
 - * *The Crucible of Creation* by Simon Conway Morris
 - * *Mystery Dance* by L. Margulis and D. Sagan
 - * *Genome* by M. Ridley. Takes the reader through all 23 human chromosomes, using each to make an interesting point.
 - The evolution of intelligence
 - * *The Dragons of Eden* by C. Sagan
 - * *The Origin of Consciousness in the Breakdown of the Bicameral Mind* by Julian Jaynes
 - * *The Woman that Never Evolved* by S. B. Hrdy
 - * *Lucy, the Beginning of Humankind* by D. Johanson and M. Edey
 - * *Lucy's Child* by D. Johanson and J. Shreeve
 - * *African Exodus* by C. Stringer and R. McKie
 - * *The River that Flows Uphill* by W. H. Calvin

- * *The Ascent of the Mind* by W. H. Calvin
- Intelligence in other species
 - * *Apes, Man, and Language* by Eugene Linden
 - * *The Mind of the Dolphin* by John Lilly
 - * *The Ape that Spoke* by J. McCrone
- Creationism and responses
 - * *Scientific Creationism* by Henry Morris (I cannot regard this book as an authoritative reference, but it presents the creationist viewpoint.)
 - * *Darwin's Black Box* by Michael Behe. This is a somewhat more intelligent critique of evolution by a biochemist.
 - * *Science and Creationism: A View from the National Academy of Sciences*, National Academy Press. Comments by the nation's most respected scientists.
 - * *The Triumph of Evolution and the Failure of Creationism* by Niles Eldridge. A leading contributor to evolution theory critiques creationism.
 - * *Intelligent Design Creationism and its Critics* ed. by Robert Pennock. Chapters by the leaders of the "intelligent design" version of creationism and by evolutionary biologists.
- Life in extreme environments
 - * *The Outer Reaches of Life* by John Postgate
- Cultural evolution
 - Development of technology
 - * *Guns, Germs, and Steel* by J. Diamond
 - Development of world view
 - * *The Sleepwalkers* by A. Koestler
 - * *Cosmology: Historical, Literary, Philosophical, Religious, and Scientific Perspectives* ed. by N. S. Hetherington
 - Threats to civilization
 - * *A Choice of Catastrophes* by Isaac Asimov
 - * *Rare Earth* by P. D. Ward and D. Brownlee
 - * *The Five Ages of the Universe* by F. Adams and G. Laughlin
 - UFOs and ancient astronauts
 - * *The UFO Experience* by J. Allen Hynek
 - * *UFOs Explained* by Philip Klass
 - * *UFOs — A Scientific Debate* ed. by Carl Sagan and Thornton Page
 - * *Flying Saucers* by C. G. Jung (This is a fascinating book, but some familiarity with the terminology of Jungian psychoanalysis is probably necessary to get much out of it.)
 - * *Messages from the Stars* by Ridpath. The last section has a nice discussion of some of the "classic" UFO cases.
 - * A magazine called *The Skeptical Inquirer* commonly runs stories on debunked UFO cases.