

Signs of Life on Mars

When we talk about searching for signs of ancient life on Mars, what we are actually looking for is a **biosignature**: an object, substance, or pattern that could only have been made by life. There are 6 specific kinds of biosignatures that we might encounter on Mars:



ORGANICS

Organic compounds contain carbon and hydrogen and other light elements. All life on Earth is made of organic compounds, but organic compounds also form in the absence of life. Systematic patterns in the types of organic matter could be a biosignature.



ISOTOPES

Atoms of one chemical element always contain the same number of protons but can have differing numbers of neutrons. On Earth, biological processes sometimes prefer one isotope over another, and that preference can be preserved in rocks.



MINERALS

On Earth, some minerals are uniquely associated with life. Discovery of a mineral that requires life to form would be a biosignature.



CHEMICALS

Earth-life metabolic activity often has a chemical signature. Signs of varying pH or oxidation state over very small scales might be the signature of microbial metabolism in an ancient environment.



SMALL-SCALE STRUCTURES

At the microscopic level, it's possible to spot signs of individual microscopic life forms: fossilized cells, or molds of cells, or casts of cells.



LARGE-SCALE STRUCTURES

At the macroscopic level, microbes on Earth build mats, stromatolites, reefs, and other structures.



On Earth, geologists look for biosignatures in ancient rocks to learn when life originated. The record for oldest evidence for Earth life is from stromatolites in the Pilbara region of Australia. They show mineral, chemical, and structural evidence for the presence of life on Earth 3.5 billion years ago. The more different kinds of biosignatures observed, the more confident we can be in the conclusion that life was present.

ABOVE A 3.7 billion year-old fossil stromatolite from western Australia preserves some of the oldest evidence for life on Earth.



My Life On Mars

Robert R. Redfield



My Life On Mars:

My Life On Mars: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. My Life On Mars : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. My Life On Mars : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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