

Generally we can say, that for life similar to the life on the Earth it is necessary to meet three basic prerequisites. On the surface or below the surface of the planet or the moon there must be liquid water, basic biogenic elements and no less important source of energy. If these requirements are at least partially met, the given place in the universe can be described as a potential source of life.

This scientific work is dealing with the possible origins of life on one of Jupiter's moons, named Europa. The thesis is divided into four chapters, where the first three chapters deal with Europa as a place suitable for life. The fourth chapter is focused on the future research of the moon. This work is based on the data obtained from satellites Pioneer 10, Pioneer 11, Voyager 1, Voyager 2 and Galileo.