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Evolution of Life-Related Matter in the Universe

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It has been one of common interests of the human being to understand how the life was originated. Very recently a new research field -- astrobiology -- has been emerged as an interdisciplinary field among astronomy, chemistry, physics, geophysics, biology, and others toward the understanding of the life not only on the Earth but in the Universe. In my talk I will discuss how to challenge to this attractive field by astronomical means, such as observations by ALMA, theoretical studies of chemical evolution of the organic species, IR observations toward exoplanets, and others.

Keywords: Interstellar Matter, Interstellar Dust, Exosolar Planets, Chemical Evolution, ALMA