

## **Ways to Sense Environmental Signals by Creatures on Earth: A Lesson for Exploring Extraterrestrial Life**

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Life on Earth with billions years of evolution, tens of millions extant species developed intimate relationships with their living environment. They react to chemical, optical, and magnetic signals in sophisticated ways, and that can be regarded as the most adorable aspects of life. What kinds of features do you expect to see in extraterrestrial life? That should depend on the particular planet environment, with certain degree of predictability.