

# **The Mystery of Bioluminescence**

Bioluminescence is a natural phenomenon in which living organisms produce light through chemical reactions within their bodies. This glow can be seen in various marine animals, fungi, insects, and even some bacteria. One of the most famous examples is the firefly, which uses light to attract mates.

In the ocean, bioluminescence plays a crucial role in survival. Deep-sea creatures use light to lure prey, confuse predators, or communicate in the darkness. The light is typically produced by a reaction involving a molecule called luciferin and an enzyme called luciferase.

Scientists study bioluminescence not only to understand nature but also to develop medical and technological applications, such as biological imaging and environmental monitoring. Despite centuries of observation, this glowing world still holds many secrets.