

Bioluminescence, from ocean to genome

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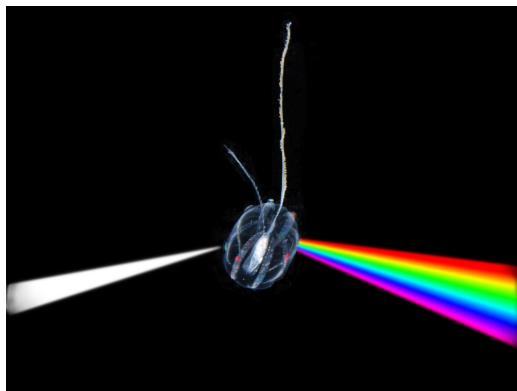
日時： 2023年5月22日（月）16:30-18:00

場所： 理学部E館1階 E131号室



Recent advances in genome sequencing have rapidly outpaced the biology of the organisms they have been trying to understand. Inferring the underlying biology, traits of the organisms, and phenotypes from the genome is now a key goal in genomics, similar to reverse genetics.

Here I will discuss a few examples of ongoing genomics studies of non-model animals, all studying the trait of bioluminescence - the production of light by living organisms. Bioluminescence is common in the marine environment, but because it is convergently evolved in many animal groups, the mechanisms of light production can be different. One example is the gain and loss of bioluminescence as we see in ctenophores (有櫛動物), using the recently published genome of the species "*Hormiphora californensis*". I will also discuss the gain of bioluminescence in the medusa (クラゲ) "*Pelagia noctiluca*", whose study is ongoing.



この講義は英語で行われます

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(理学研究科生命理学専攻博士前期過程の学生：NUCTアドバンス生命理学特論1に情報を掲載予定)