

LABORATORY OF MOLECULAR GENETICS

Life Science of Photosynthetic Organisms ~Regulation of Gene Expression and Functional Analysis~

Date : December 7th [Sat], 2024

Symposium : online (Teams)

Registration : Forms

https://forms.office.com/Pages/ResponsePage.aspx?id=EwOyHonCO0GKuRRvQf_300C8P4v4ab1PhFliZ4JbFjNUMkMwVzgxOUkwU1ZHQlg4WktON1RQRUhUSiQIQCNjPTEu

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ASAYAMA GROUP

Laboratory Website : <http://asam.agr.ibaraki.ac.jp>

TOPIC & TITLE

[Science & Engineering]

Time: 10:30 ~

Title : Characterization of highly purified extracellular polysaccharide from a novel green alga *Parachlorella* sp. AMI5

Presenter : **Reo Yamane**

Time: 10:50 ~

Title : Novel proteoglycan-like product in extracellular substances from a filamentous cyanobacterium

Presenter : **Runa Koshikawa**

Time: 11:10 ~

Title : Analysis of a cyanobacterial RNA polymerase group 3 sigma factor

Presenter : **Yuta Nakamura**

Time: 11:30 ~

Title : A novel group 2-type sigma factor SigB of the filamentous cyanobacterium *Pseudanabaena* sp. ABRG5-3

Presenter : **Tastuki Go**

~RESEARCH OUTLINE~

Basic and applied researches on algae

- Isolation of novel algae producing useful materials
- Gene analyses for efficient photosynthesizing capacity
- Algal biorefinery using useful cells and incubators, contributing to CO₂ gas recycling



Useful material producing algae

From gene expression control to biofuel production



Lake Kasumigaura

Algae Cultures