

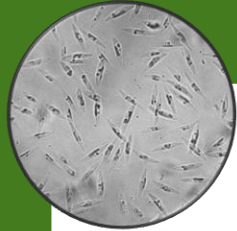
# MOLECULAR BIOLOGY OF PROTISTS



Přirodovědecká  
fakulta  
Faculty  
of Science



BIOLOGY  
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CAS



**Learn genetic transformation techniques.** *Phaeodactylum tricornutum* is increasingly gaining recognition as a model organism for studying diatom biology and exploring various biotechnological applications. Researchers have traditionally relied on microprojectile bombardment for transporting DNA into these cells. However, this method is costly, not readily available in many laboratories, and suffers from low transformation efficiency. These limitations hinder its widespread application.

**Our goal** is to optimize electroporation as a more accessible and efficient alternative for introducing DNA into *Phaeodactylum tricornutum* cells.



## Join my research team!

I am fascinated by the intricate world of marine microorganisms. My interest covers various aspects of their ecology and behavior, including life cycles, morphology, movement and predator-prey dynamics. In my research, I actively employ various microscopy techniques and molecular biology tools to delve deeper into understanding these fascinating organisms and the complexities of their interactions within marine ecosystems.

## Contact:

**Galina Prokopchuk**

[Laboratory of Molecular Biology of Protists](#)

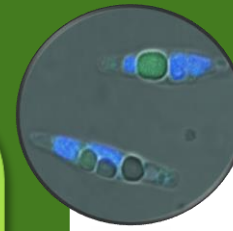
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## Master's research project 2024-2026:

Optimization of electroporation protocol for *Phaeodactylum tricornutum*

Enroll in the new two-year Masters Programme **Functional Genetics & Bioinformatics** at Faculty of Science, University of South Bohemia in České Budějovice, Czech Republic.

Offered specializations:

- **Bioinformatics**
- **Biotechnology**
- **Human Molecular Genetics**
- **Molecular Cell Biology & Genetics**

Application deadline: **19 May 2024**

Study start: **September 2024**

Find more information [HERE](#)