



Max Planck Institute for Marine Microbiology

Celsiusstrasse 1, D-28359 Bremen, Germany

CLSM laboratory

Proposal form for CLSM analysis at the Max Planck Institute for Marine Microbiology.

Please provide a short (no more than 2 pages) informal proposal which specifically addresses the following:

1. Briefly describe the main objective of the proposed research and its relevance. What is the broader impact of your study?
2. Explain why the CLSM analysis is necessary for your research and what you expect to find.
3. Provide the proposed experimental design with a detailed sketch protocol. Give details on the fluorochromes and pigments involved, the planned analytical methods (LSM/ SR-SIM/ PALM) and analysis time requested. The design and details will help determine the feasibility and success of the experimental design.
4. Specifically describe:
 - origin of sample
 - target cells to be analysed (size, phylogenetic affiliation)
 - if you are using established protocols
 - treatment of cells (fixation, permeabilisation, staining)
 - preparation style (e.g. embedded filter pieces on glass slides)
 - mounting medium used
 - which stains will be used (give details: Excitation / Emission)
 - which lasers are needed (wavelength)
 - indicate, if you need SIM/PALM/STORM and why
 - requested slot numbers and slot length
 - provide desired time frame or dates; if you are not able to come up with dedicated dates yet, please give a timeframe, e.g., once per week in May or 3 days in a row in June.
5. Provide a summary of the project after the last analysis

Important NOTES:

- Please make yourself familiar with CLSM and superresolution techniques **before** you write the proposal. Carefully consider if CLSM or superresolution is really needed to answer your experimental questions and if it is applicable to your experimental setup.
- The quality of the samples (e.g. fluorescence signal intensity, background, etc) needs to be checked by standard epifluorescence microscopy **beforehand**.
- A personal introduction to the system is mandatory for every new user. Experience in epifluorescence microscopy is expected.
- We only provide access to the instrument within our working hours between 9 am and 6 pm.

Please email your proposal to allrott@mpi-bremen.de.
