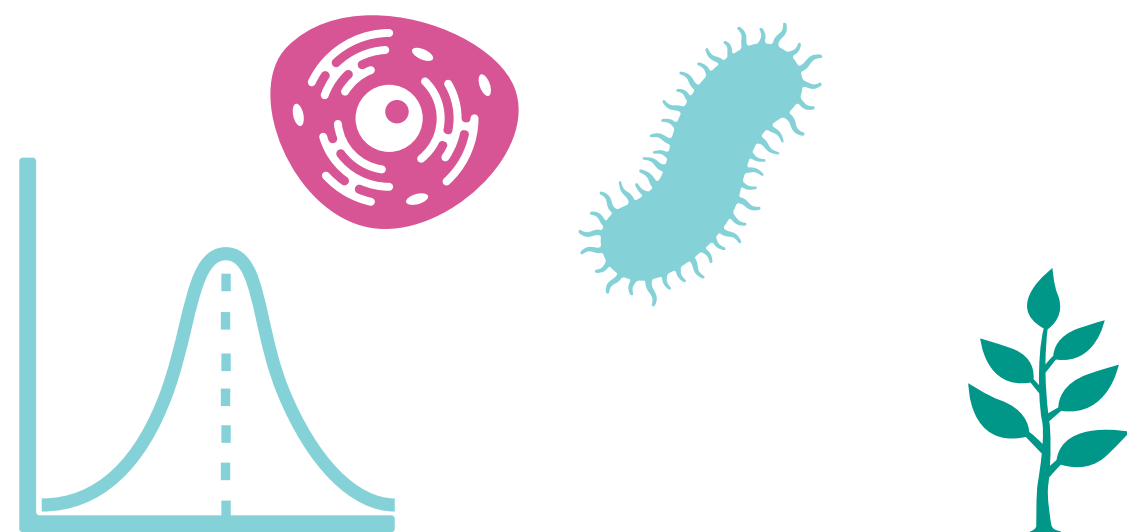

THE ESSENTIALS

Overview over the first weeks



GENERAL MASTER COURSES

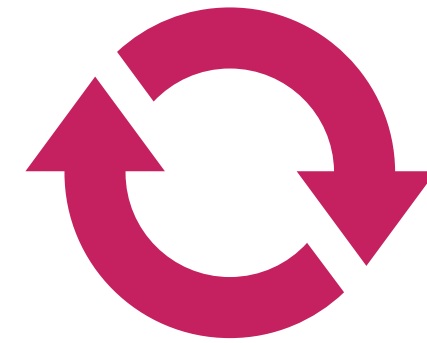
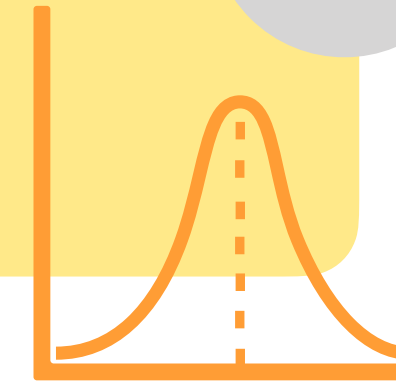
The semester starts with **two compulsory courses**



“LAB” METHODS

COMPUTATIONAL BIOLOGY

online

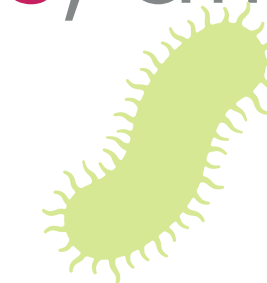


Both courses are tightly linked!

Together, you will learn **essential methods** required for molecular biology.



Different **model organisms**, different **molecules** & different **techniques**



13.10 - 16.10

October 20.10 - November 06.11.

Computational Course Part 1

A & B

Lab Course

A-1

Lab Course

A-2

Lab Course

A-3

Lab Course

A-4

“free”
Data Camp R

Group B - Computational Part 2

13.10 - 16.10

November 10.11. - November 27.11.

Computational Course Part 1

A & B

“free”
Data Camp R

Group A - Computational Part 2

Lab Course

B-1

Lab Course

B-2

Lab Course

B-3

13.10 - 16.10

Group A - 20.10 - 06.11

Computational Course Part 1

A & B

Danny Meilinger

HUMANBIOLOGY
MASTER

A-1

Tamara Mikeladze-Dvali

MOLECULAR & CELLULAR
BIOLOGY MASTER

A-2

Sonja Grath

MOLECULAR & CELLULAR
BIOLOGY MASTER

A-3

Susanne Mühlbauer

MOLECULAR & CELLULAR
BIOLOGY MASTER

A-4

Group B - 10.11 - 27.11

Dagmar Hann

MOLECULAR & CELLULAR
BIOLOGY MASTER

B-1

Serena Schwenkert

MOLECULAR & CELLULAR
BIOLOGY MASTER
&
PLANT SCIENCE
MASTER

B-2

Joachim Surm

MOLECULAR & CELLULAR
BIOLOGY MASTER

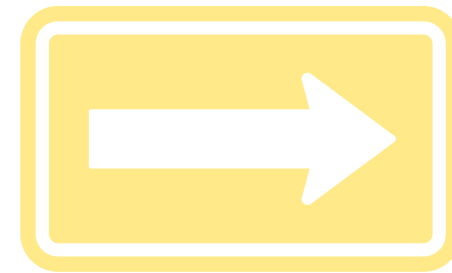
B-3

COMPUTATIONAL COURSE - CONTENT & TOPICS

All information can be found on

Moodle:

[moodle -LMU](#)



You need to enrol yourself to
the respective group:

Sign in
as soon as you get sorted in your group with the
correct enrolment key that you received via Email

!!! IMPORTANT !!!

**group specific task will be assigned
within MOODLE**

*sign in **as soon as you get sorted in your group** with the correct enrolment key!*

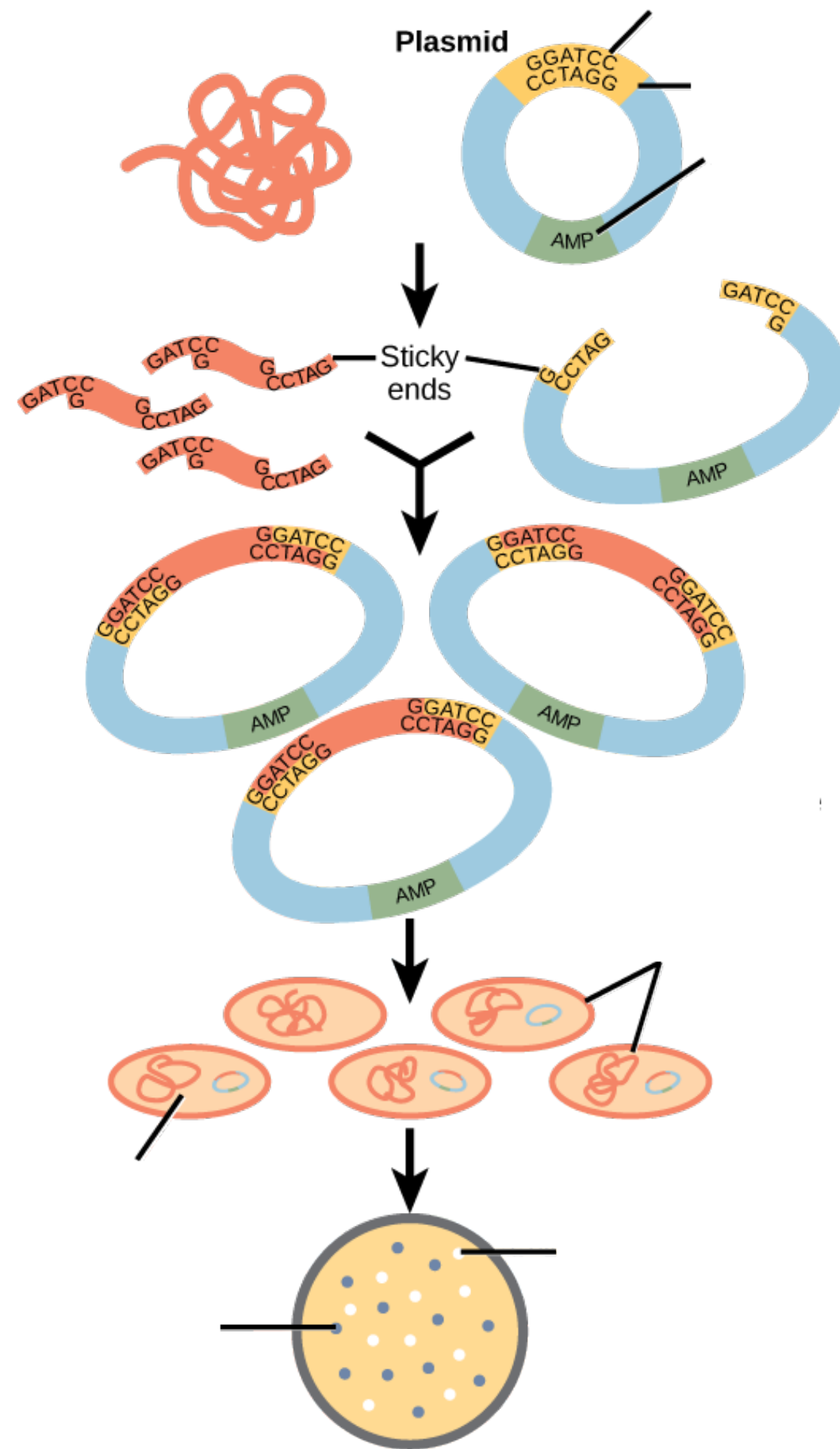
**Data Camp HAS to be completed
before R-Module !!!**

information about Data Camp on moodle!

LAB COURSE - CONTENT & TOPICS

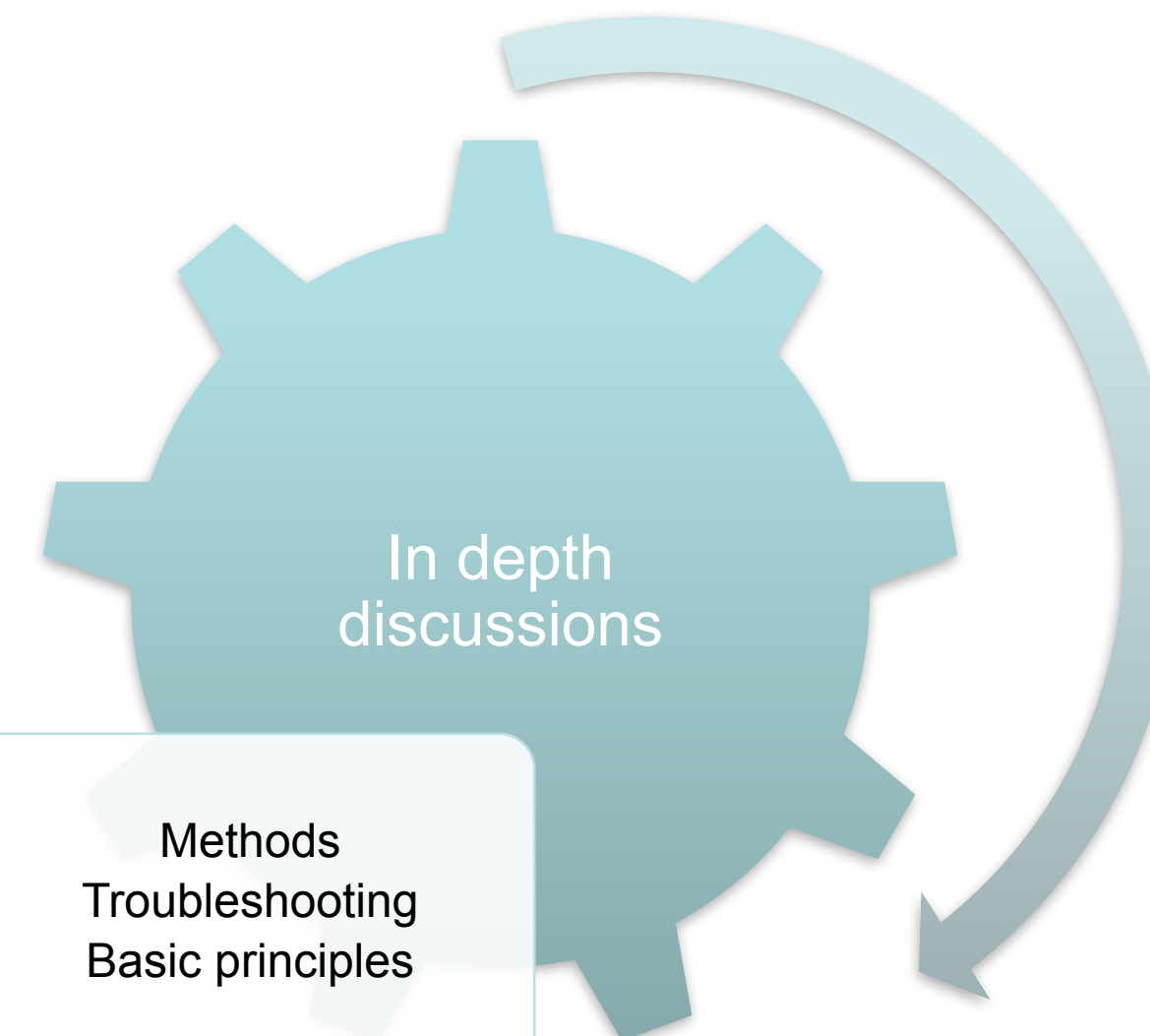
The Essentials Methods in molecular and cellular Biology

PCNA



- Transfection of different cell and tissue types
- Co-IP
- Fluorescence Microscopy

Investigate function of **PCNA** in plants, humans and other pro & eukaryotic cells



- Methods
- Troubleshooting
- Basic principles

Meta-Teaching Aims

Comprehensive course design
with step-by-step instructions



Instructions



In-Depth
Discussions

In depth discussions with
Lecturers and Tutors

Tips and Tricks on essential lab
methods



Tips and Tricks



Tutorials &
eLectures

Profound accompanying online
tutorials and eLectures

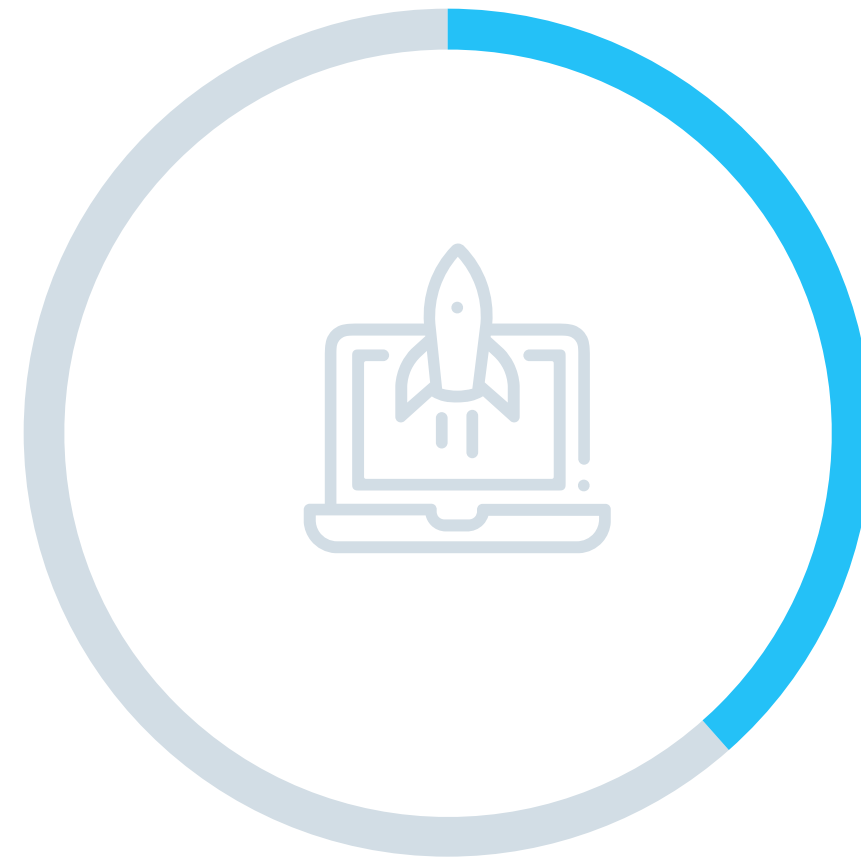
PROOF OF PERFORMANCE

Computational Course



Daily/weekly exercises

submission dates
announced during
course



Multiple Choice Exam

Date will be **end of
December** and final
date will be announced!

Lab Methods Course



Presentation / Seminar Talks

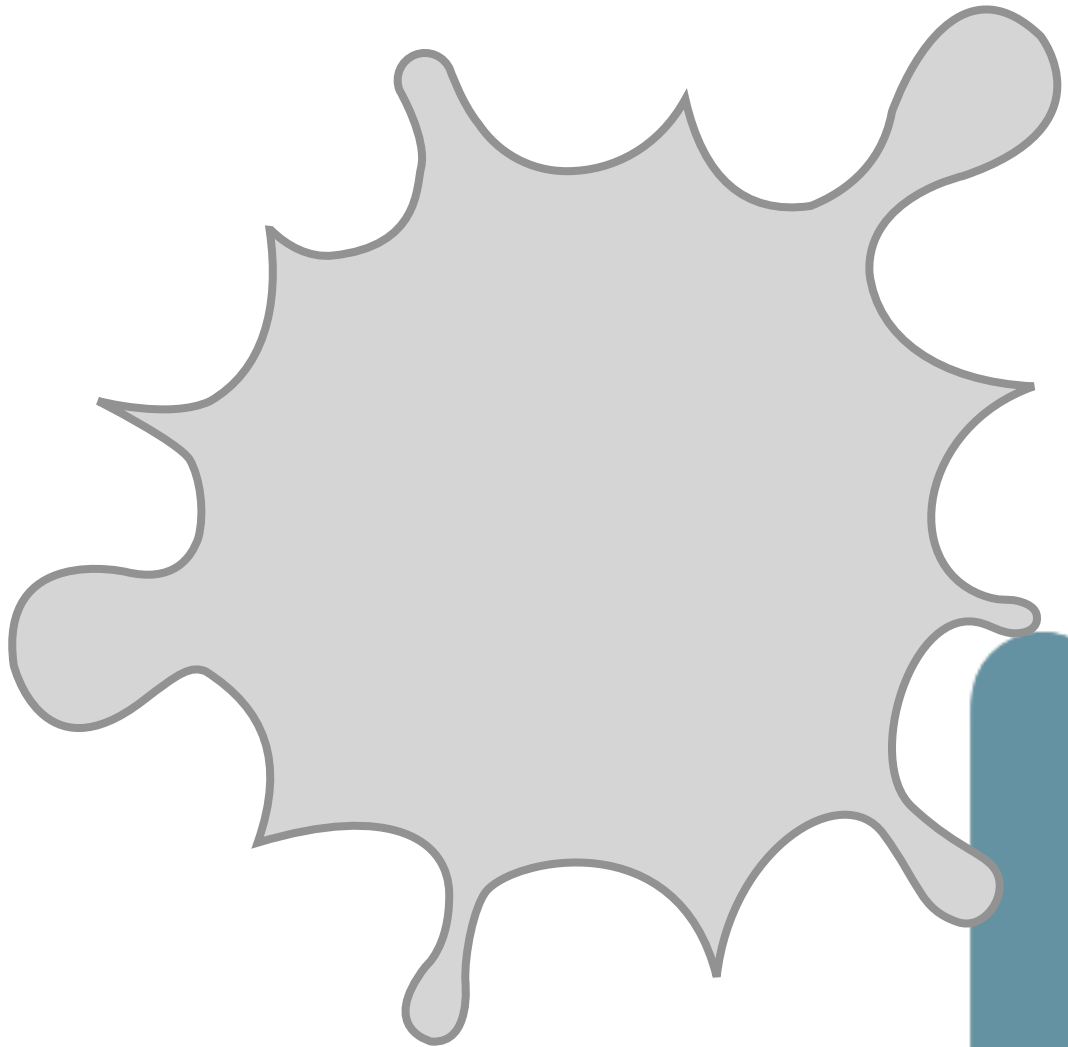
will take place **during
the course**,
topics will be assigned &
distributed in the first
week of the
computational course



“Lab”Report

Submission 3 weeks
after the course

ADD-ON RECOMMENDED LECTURE



MMB



e-Learning



- **Highly interactive lecture** with **fun online exercises**
- **Topics:** essential methods such as Transformation, Western Blotting, IP, Sequencing, ...(these **are also essential topics for mandatory part** of the Lab methods and Computational modules)

You will **receive an email** with the link to the moodle page and enrolment key!!!

All additional information will be distributed via **moodle!**

Questions please via the Moodle Forum



Virtual Office and Consultation Hours will be provided via Moodle!

Please use first the Forum for your questions, then the virtual offices ours and then move to writing an email :)

...for general Questions regarding **Computational** Course:
Dagmar Hann
Email: d.hann@bio.lmu.de

...for general Questions regarding the **Lab** Course:
Danny Meilinger
Email: d.meilinger@lmu.de