THE ESSENTIALS

Overview over the first weeks
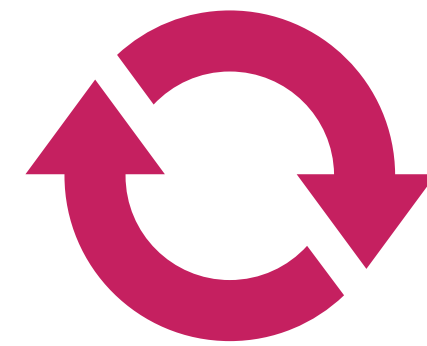
Dagmar Hann, Danny Meilinger
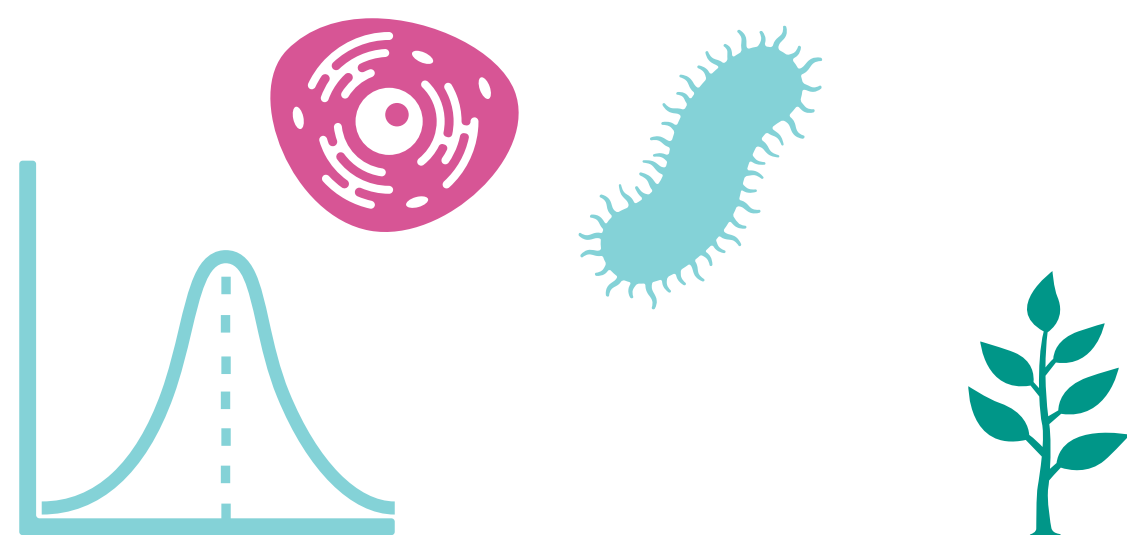
The semester starts with **two compulsory courses**
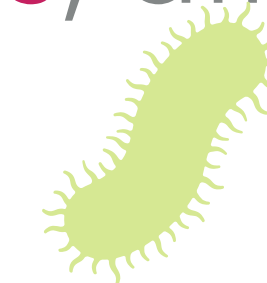
"LAB" METHODS

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

18.10 - 21.10

October 25.10 - November 11.11.

Computational Course Part 1

A & B

Lab Course	Lab Course	Lab Course
A-1	A-2	A-3

"free"
Data Camp R

Group B - Computational Part 2

18.10 - 21.10

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

Lab Course

B-4

18.10 - 21.10

Group A - 25.10 - 11.11

Computational Course Part 1

A & B

Danny Meilinger	Ana Gasperotti	Tamara Mikeladze-Dvali
HUMANBIOLOGY MASTER	MOLECULAR & CELLULAR BIOLOGY MASTER	MOLECULAR & CELLULAR BIOLOGY MASTER
A-1	A-2	A-3

Group B - 15.11 - 02.12

Dagmar Hann	Michal Uflewski	Natascha Zhang Turetzek	Danny Meilinger & TBA
MOLECULAR & CELLULAR BIOLOGY & PLANT SCIENCE MASTER	MOLECULAR & CELLULAR BIOLOGY MASTER	MOLECULAR & CELLULAR BIOLOGY MASTER	MOLECULAR & CELLULAR BIOLOGY MASTER
B-1	B-2	B-3	B-4

MOODLE ENROLMENT & GROUPS

Group Distribution and General Questions regarding
P1 (Lab Methods) & P2 (Computational)
on Moodle!

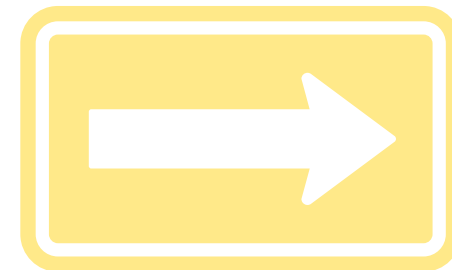**You need to enrol yourself to the Moodle Page using this enrolment key:**

Master_P1andP2

Moodle Page

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!**

!!! IMPORTANT !!!

group specific task will be assigned within MOODLE

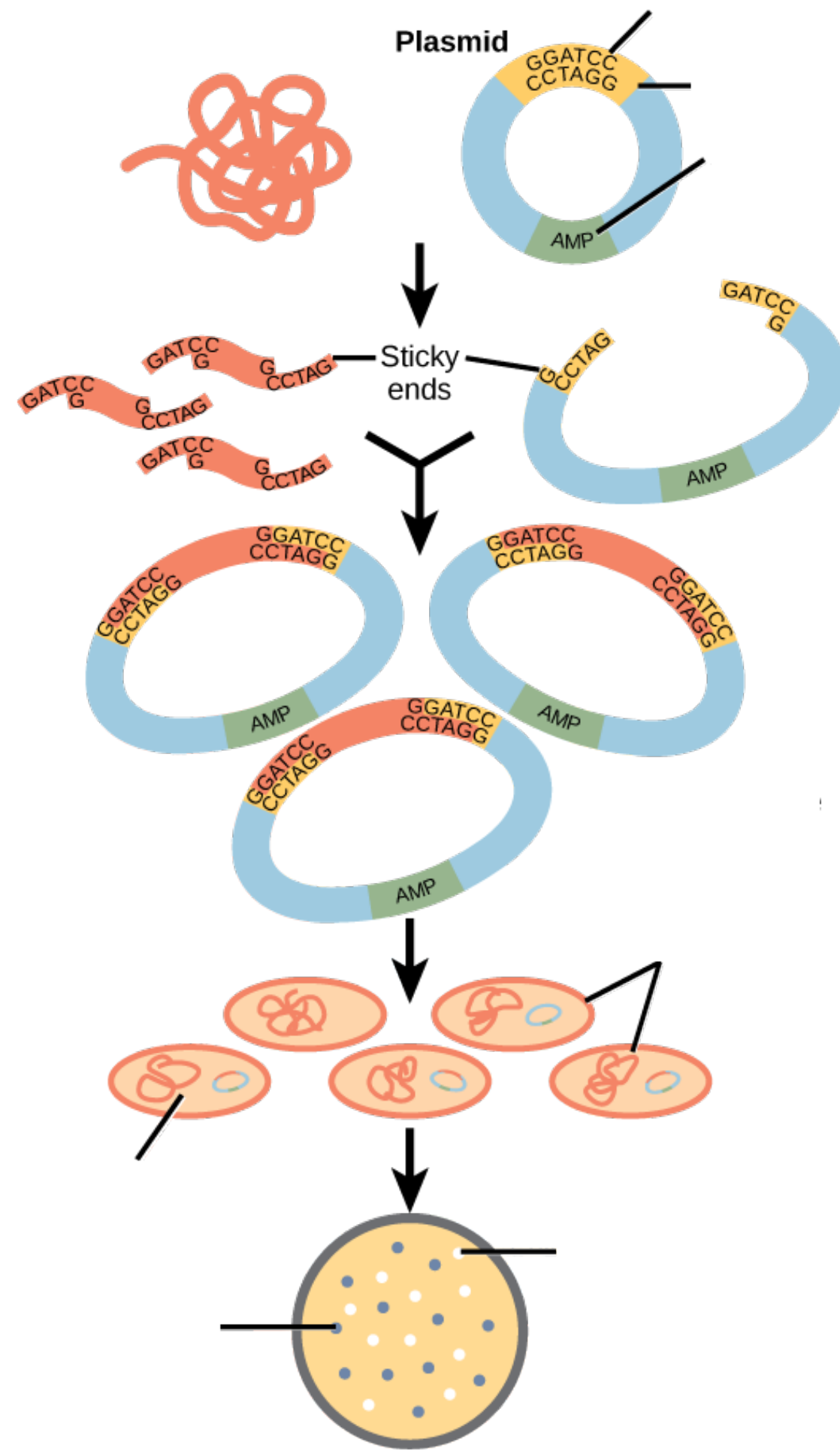*sign in as soon as you get sorted in your group with the correct enrolment key!*

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**

In depth
discussions

- Methods
- Troubleshooting
- Basic principles

Meta-Teaching Aims

Comprehensive course design with step-by-step instructions

Instructions

In depth discussions with Lecturers and Tutors

In-Depth Discussions

Tips and Tricks on essential lab methods

Tips and Tricks

Profound accompanying online tutorials and eLectures

Tutorials & eLectures

PROOF OF PERFORMANCE

Computational Course

Lab Methods Course

**Daily/weekly
exercises**

**Multiple
Choice Exam**

**Presentation /
Seminar Talks**

"Lab"Report

submission dates
announced during
course

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

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

Submission 3 weeks
after the course

NEW

MMB

e-Learning

- **Highly interactive lecture** with **fun online exercises** and live meetings

- **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)

- **Every 2 weeks a new Chapter** opens and **every other week there will be a tutorial online via Zoom** to discuss, transfer and apply what you have learned in each chapter.

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

All additional information will be distributed via moodle!

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