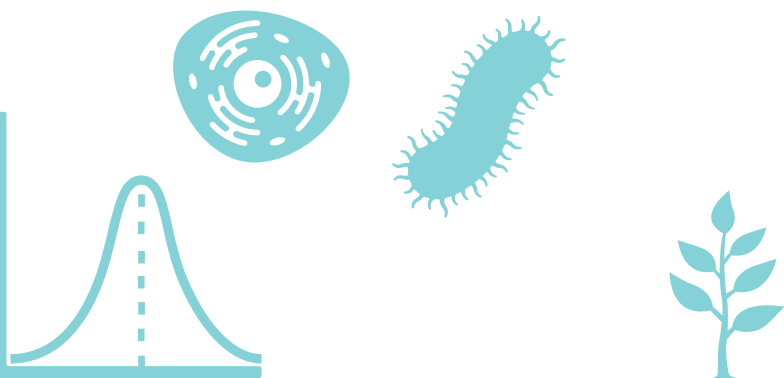


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# THE ESSENTIALS

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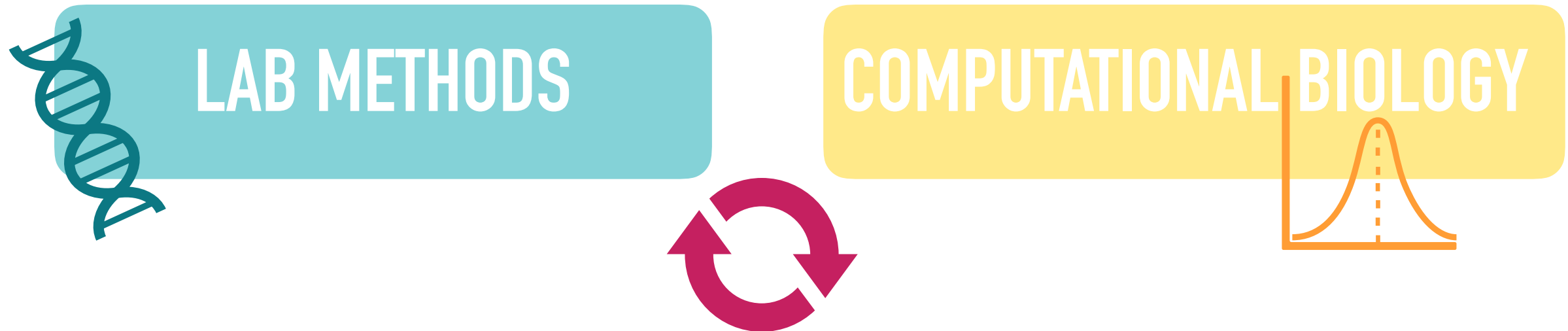
Overview over the first weeks



# GENERAL MASTER COURSES

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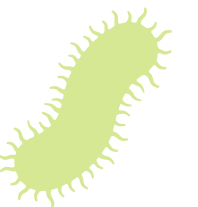
The semester starts with **two compulsory courses**



**Both courses are tightly linked!**

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

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



**15.10 - 18.10**

**October 22.10 - 08.11**

Computational Course Part 1

**A & B**

**Lab Course**

**A-1**

**Lab Course**

**A-2**

**Lab Course**

**A-3**

**"free"**

**Data Camp R**

**Group B - Computational Part 2**

15.10 - 18.10

November 12.11 - 29.11

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

15.10 - 18.10

Group A - 22.10 - 09.11

Computational Course Part 1

Danny Meilinger  
Dagmar Hann

HUMANBIOLOGY MASTER

A-1

Ana Gasperotti

MOLECULAR & CELLULAR  
BIOLOGY MASTER

A-2

Tamara Mikeladze-Dvali

MOLECULAR & CELLULAR  
BIOLOGY MASTER

A-3

Group B - 12.11 - 39.11

Dagmar Hann  
Danny Meilinger

MOLECULAR & CELLULAR  
BIOLOGY  
&  
PLANT SCIENCE  
MASTER

B-1

Frank Landgraf

MOLECULAR & CELLULAR  
BIOLOGY MASTER

B-2

Natascha Zhang Turetzek

MOLECULAR & CELLULAR  
BIOLOGY MASTER

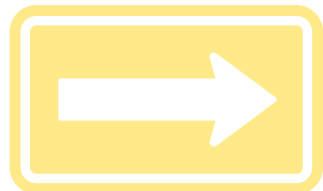
B-3

A & B

# COMPUTATIONAL COURSE – CONTENT & TOPICS

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All information can be found on  
Moodle:  
[moodle -LMU](#)



You need to enrol yourself to  
the respective group:

Group A1 =  
Master\_Intro\_A1

Group B1 =  
Master\_Intro\_B1

# COMPUTATIONAL COURSE

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**!!! 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!*

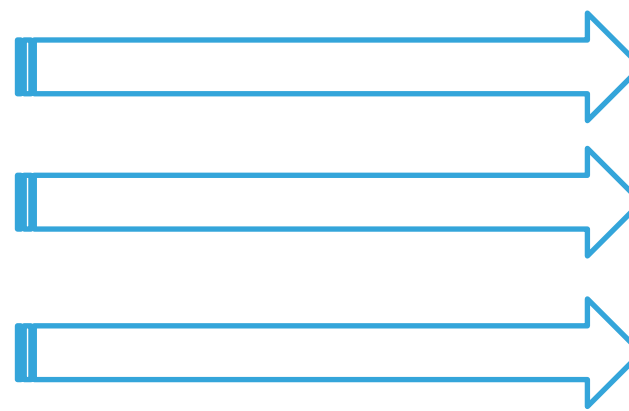
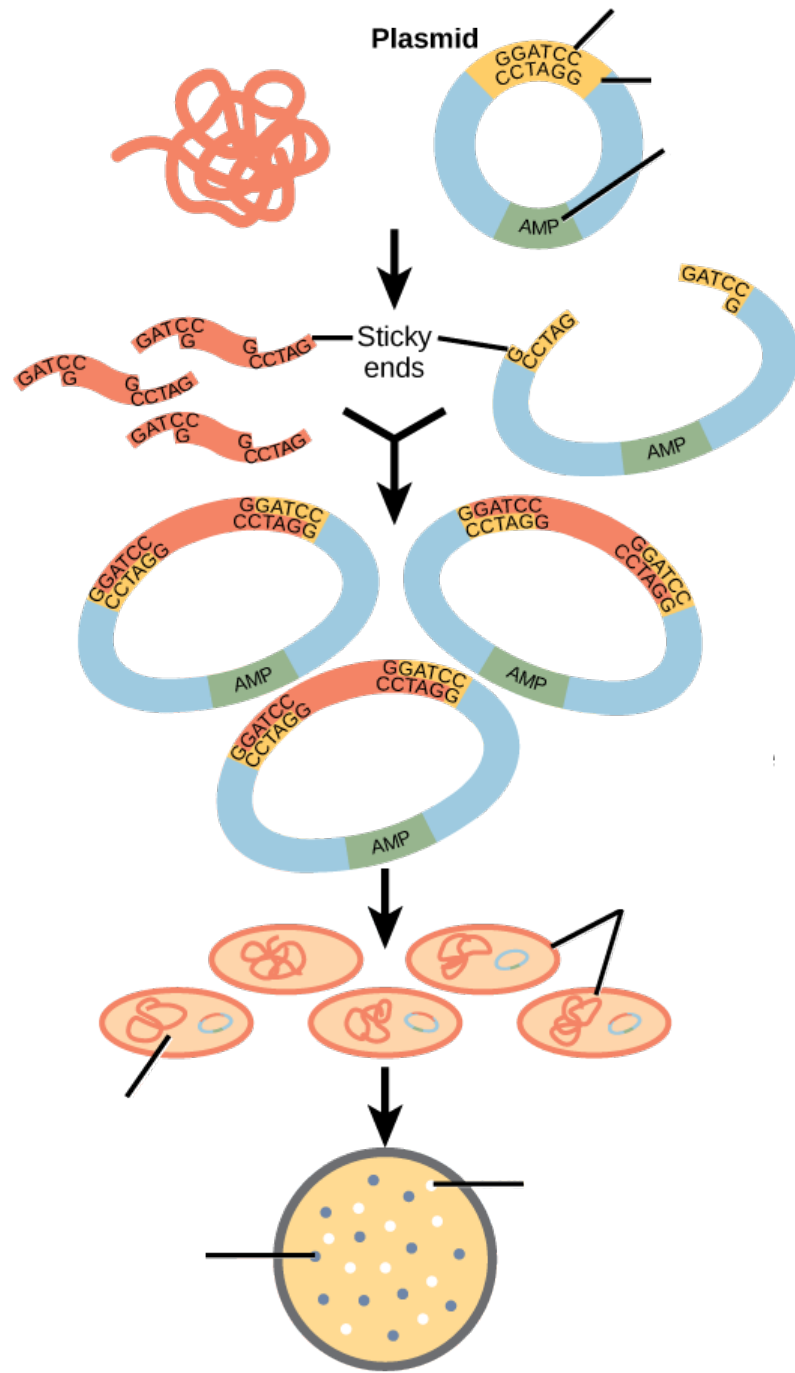
**Data Camp HAS to be completed  
before R-Module !!!**

*information about Data Camp on moodle!*

# LAB COURSE – CONTENT & TOPICS

*The Essentials Methods in molecular and cellular Biology*

## PCNA

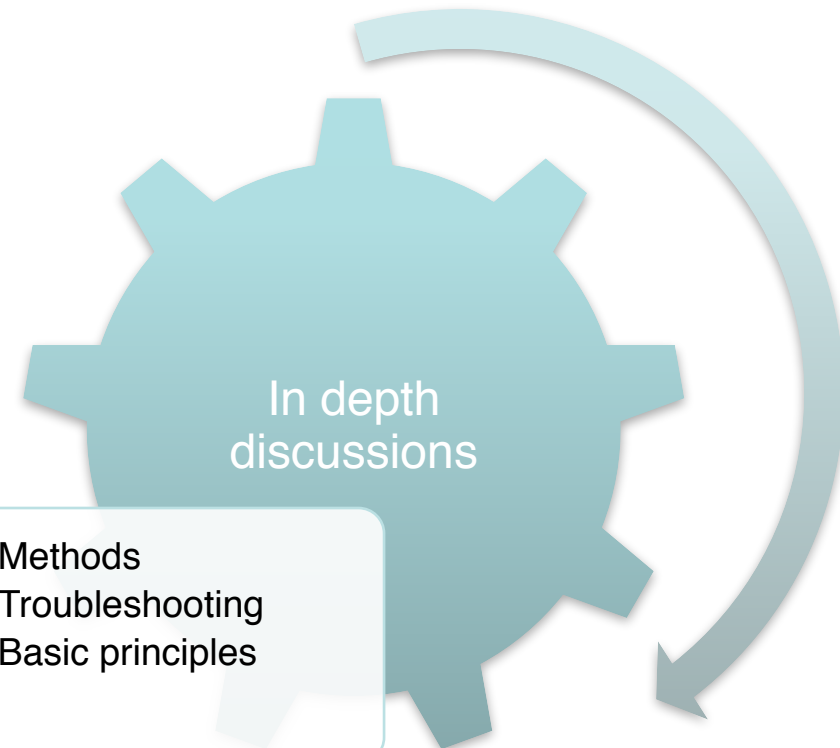


Transfection of different cell and tissue types

Co-IP

Fluorescence Microscopy

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





# LAB COURSE

## *The Essentials Methods in molecular and cellular Biology*

PCNA

Transfection of different cell and tissue types

Co-IP

Fluorescence Microscopy

**Script will be printed & provided additional information on Moodle!**

plants, cells

In depth discussions

- Methods
- Troubleshooting
- Basic principles

# PROOF OF PERFORMANCE

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## COMPUTATIONAL BIOLOGY COURSE

daily/weekly exercises

*submission* dates announced during course

multiple choice exam

end of **December** (date to be announced)

## LAB COURSE

Presentations (seminar talks)

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

Lab Report

submission one (1) **week after** end of course

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**Friday, Oct 11th** you will receive an email with your **group placement** and **enrolment key**

Please bring a **labcoat**  
can be *lend* or *bought* via the student council



...for general Questions regarding **Computational**  
Course:

Dagmar Hann  
Email: [d.hann@bio.lmu.de](mailto:d.hann@bio.lmu.de)  
Office: E03.047

...for general Questions regarding the **Lab**  
Course:

Danny Meilinger  
Email: [d.meilinger@lmu.de](mailto:d.meilinger@lmu.de)  
Office: B.02.051

## ENROLMENT KEYS FOR MOODLE

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- ▶ Master\_Intro\_A1
- ▶ Master\_Intro\_A2
- ▶ Master\_Intro\_A3
- ▶ Master\_Intro\_B1
- ▶ Master\_Intro\_B2
- ▶ Master\_Intro\_B3