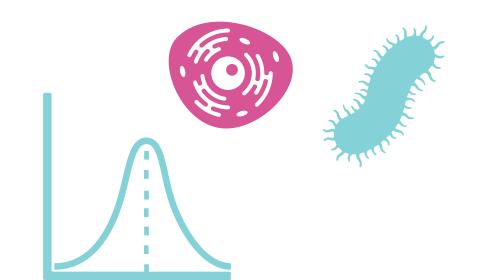
## THE ESSENTIALS

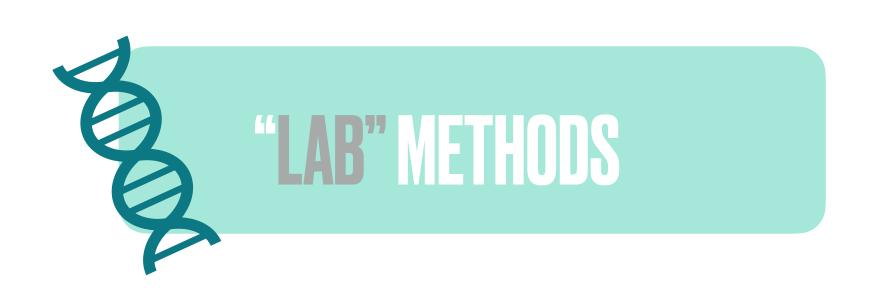
Overview over the first weeks





## GENERAL MASTER COURSES

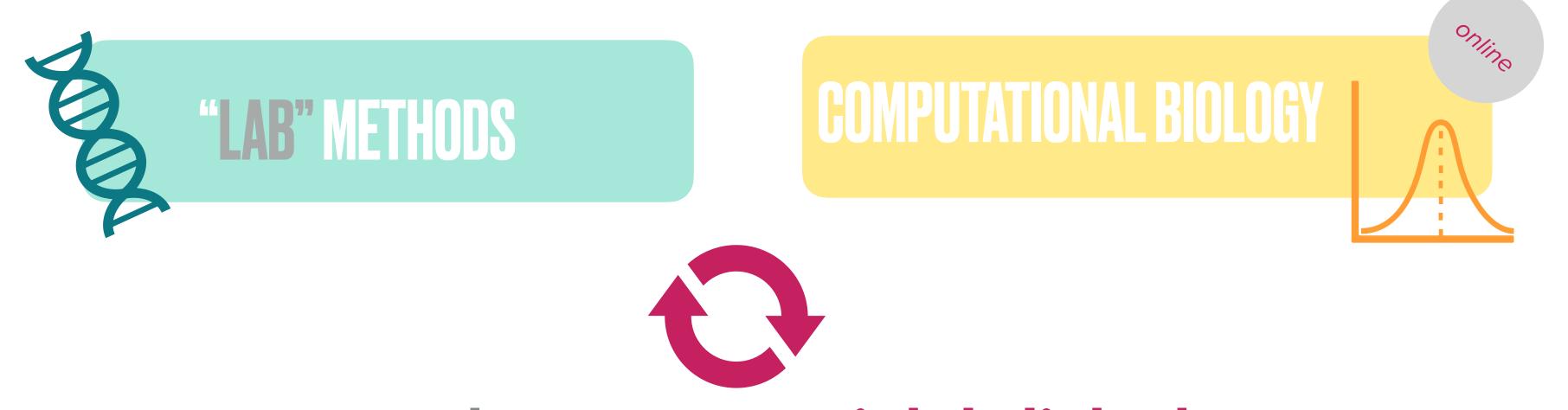
The semester starts with two compulsory courses





## GENERAL MASTER COURSES

The semester starts with two compulsory courses

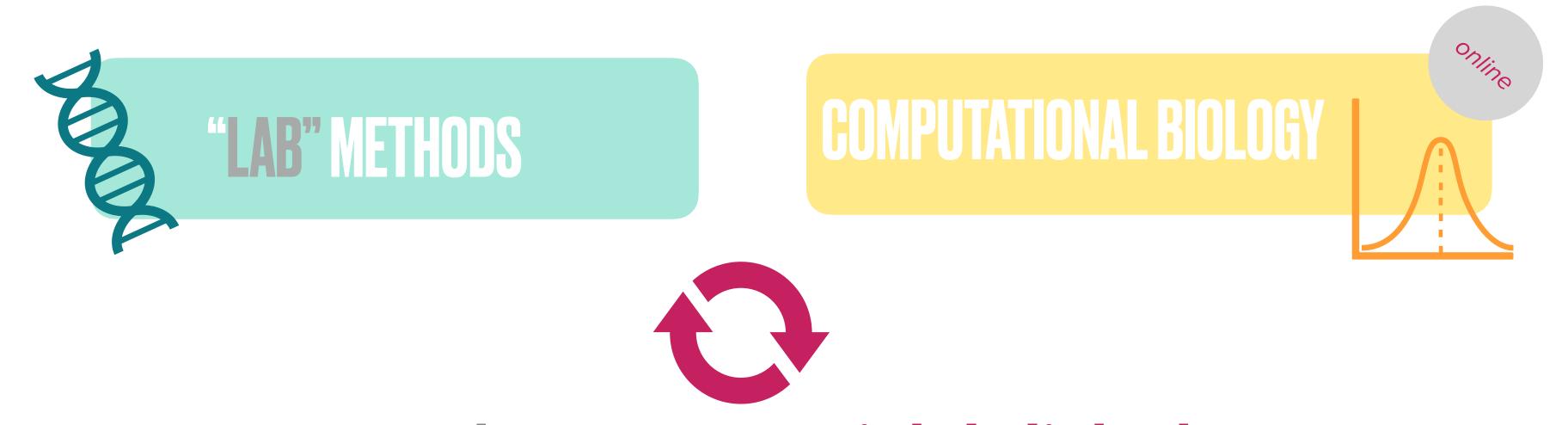


Both courses are tightly linked!

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

## GENERAL MASTER COURSES

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

Computational Course

**A&B** 

## 15.10 - 18.10

Computational Course Part 1

**A & B** 

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

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

#### October 22.10 - November 08.11.

Computational Course Part 1

Lab Course

**A-1** 

Lab Course

**A-2** 

Lab Course

**A-3** 

"free"
Data Camp R

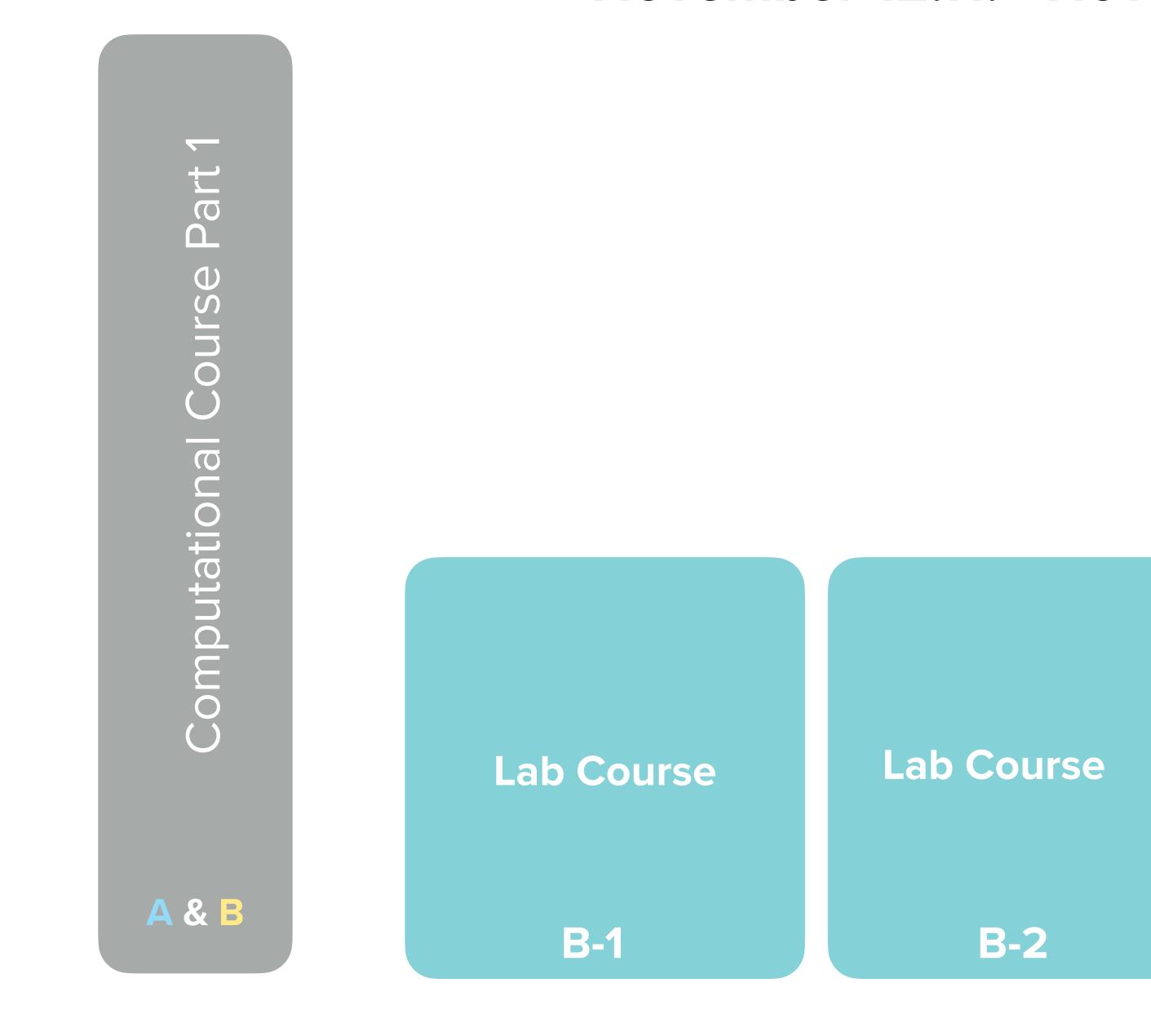
Group B - Computational Part 2

**A & B** 

Computational

**A & B** 

**A & B** 



Lab Course

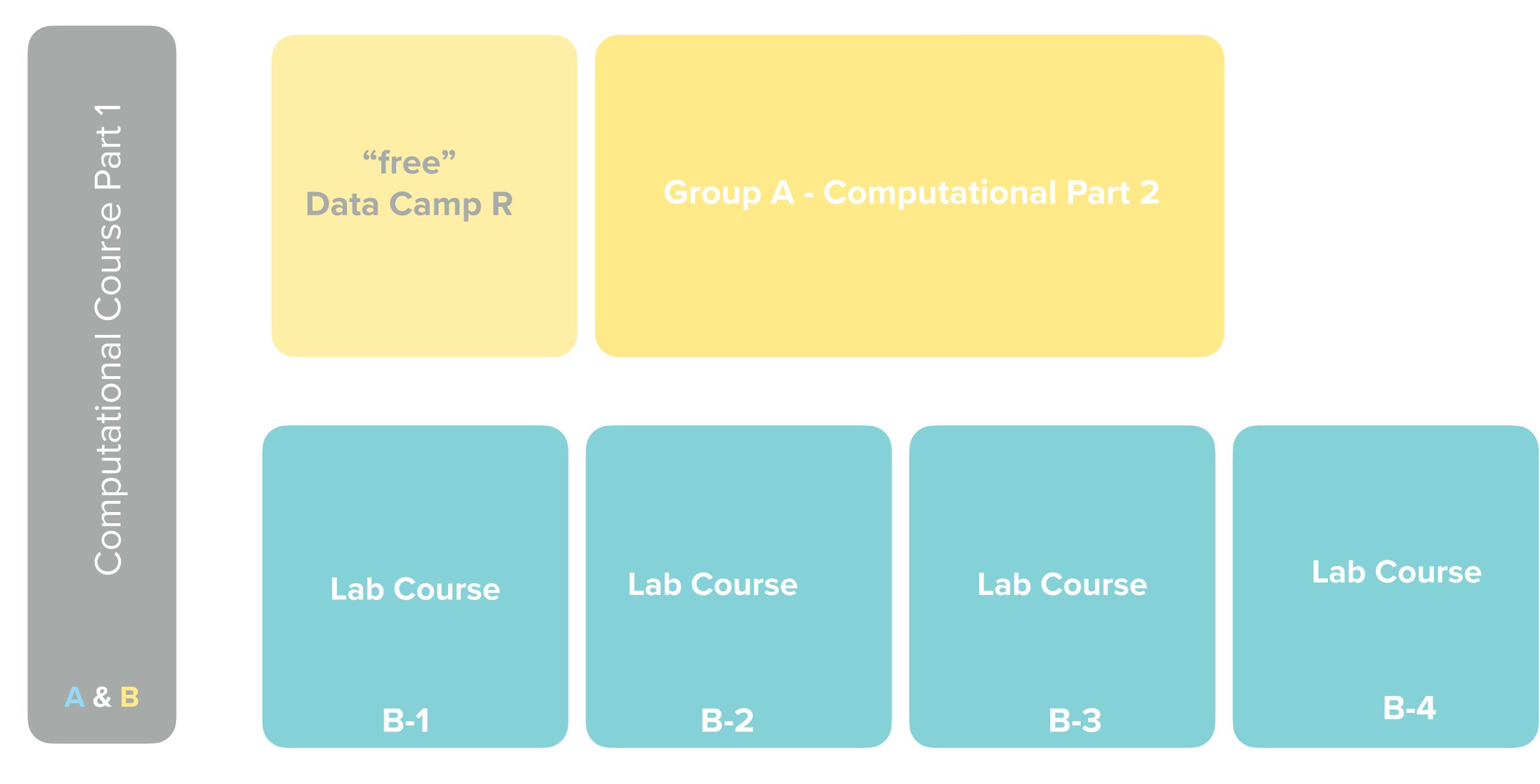
B-3

Lab Course

B-4

## 17.10 - 20.10

#### November 12.11. - November 28.11.



#### 15.10 - 18.10

#### Group A - 22.10 - 08.11

Part Computational Course

**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** 

Group B - 12.11 - 29.11

Dagmar Hann

MOLECULAR & CELLULAR BIOLOGY & PLANT SCIENCE MASTER

**B-1** 

Benjamin Brandt

MOLECULAR & CELLULAR BIOLOGY MASTER

**B-2** 

Joachim Surm

MOLECULAR & CELLULAR BIOLOGY MASTER

**B-3** 

Frank Landgraf

MOLECULAR & CELLULAR BIOLOGY MASTER

**B-4** 

## 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!

## COMPUTATIONAL COURSE



## COMPUTATIONAL COURSE



# group specific task will be assigned within MOODLE

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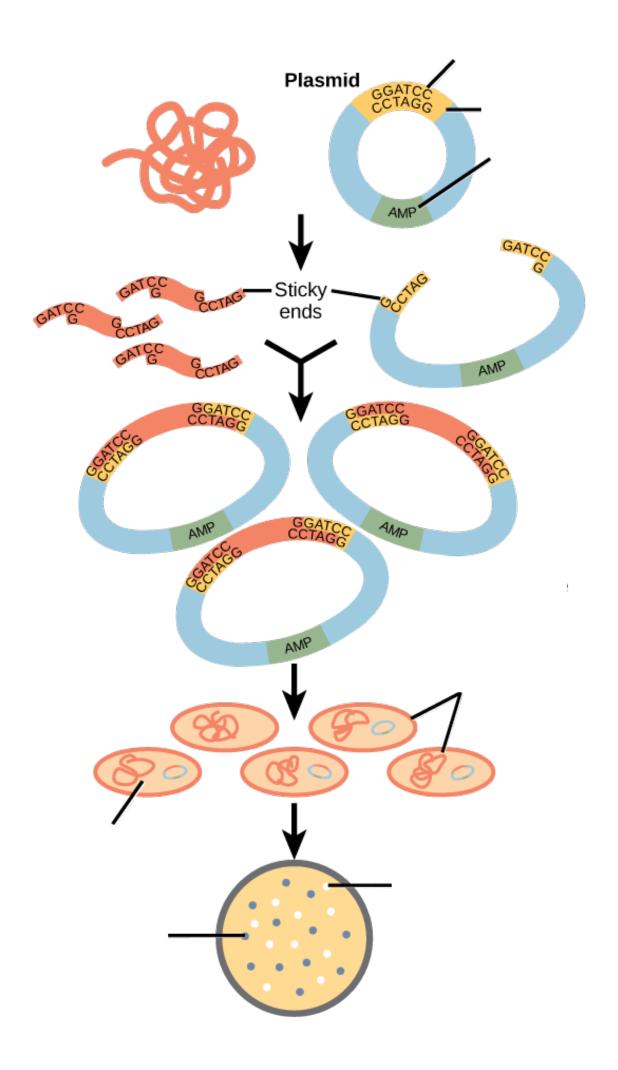
Data Camp HAS to be completed before R-Module !!!

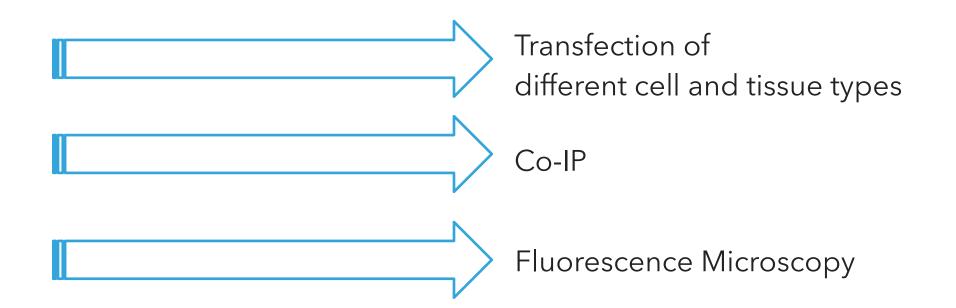
information about Data Camp on moodle!

## LAB COURSE - CONTENT & TOPICS

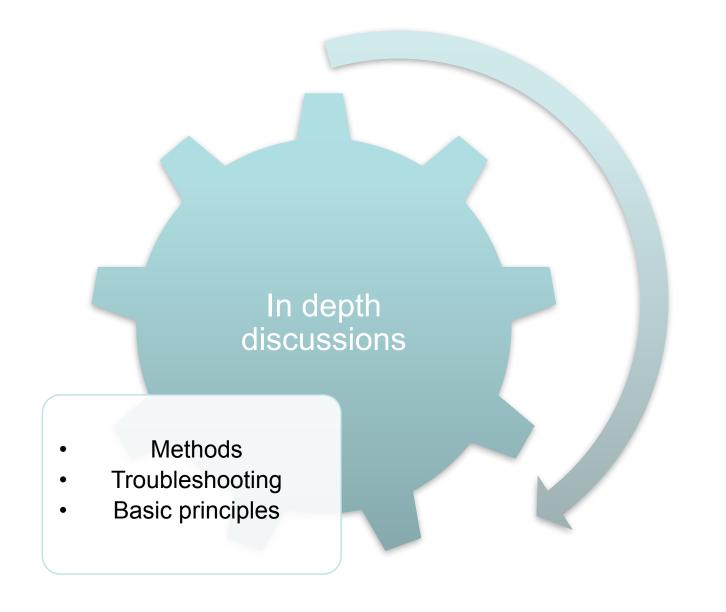
#### The Essentials Methods in molecular and cellular Biology

## PCNA





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



#### **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



Tutorials & eLectures



Profound accompanying online tutorials and eLectures

## PROOF OF PERFORMANCE

**Computational Course** 

#### **Lab Methods Course**

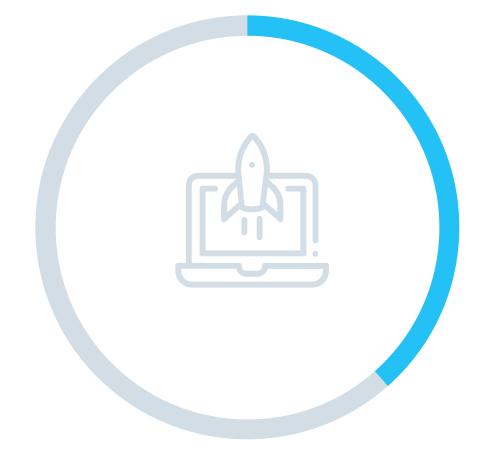
## PROOF OF PERFORMANCE

#### **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**

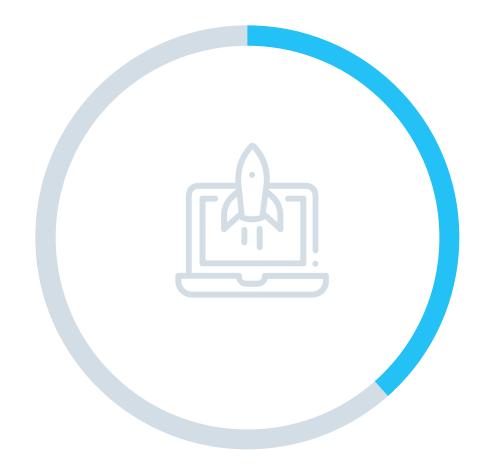
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#### **Computational Course**



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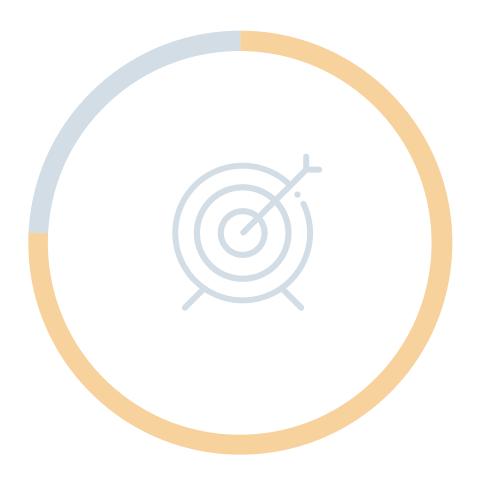
Multiple Choice Exam

Date will be end of
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#### **Lab Methods Course**



Presentation / Seminar Talks



"Lab"Report

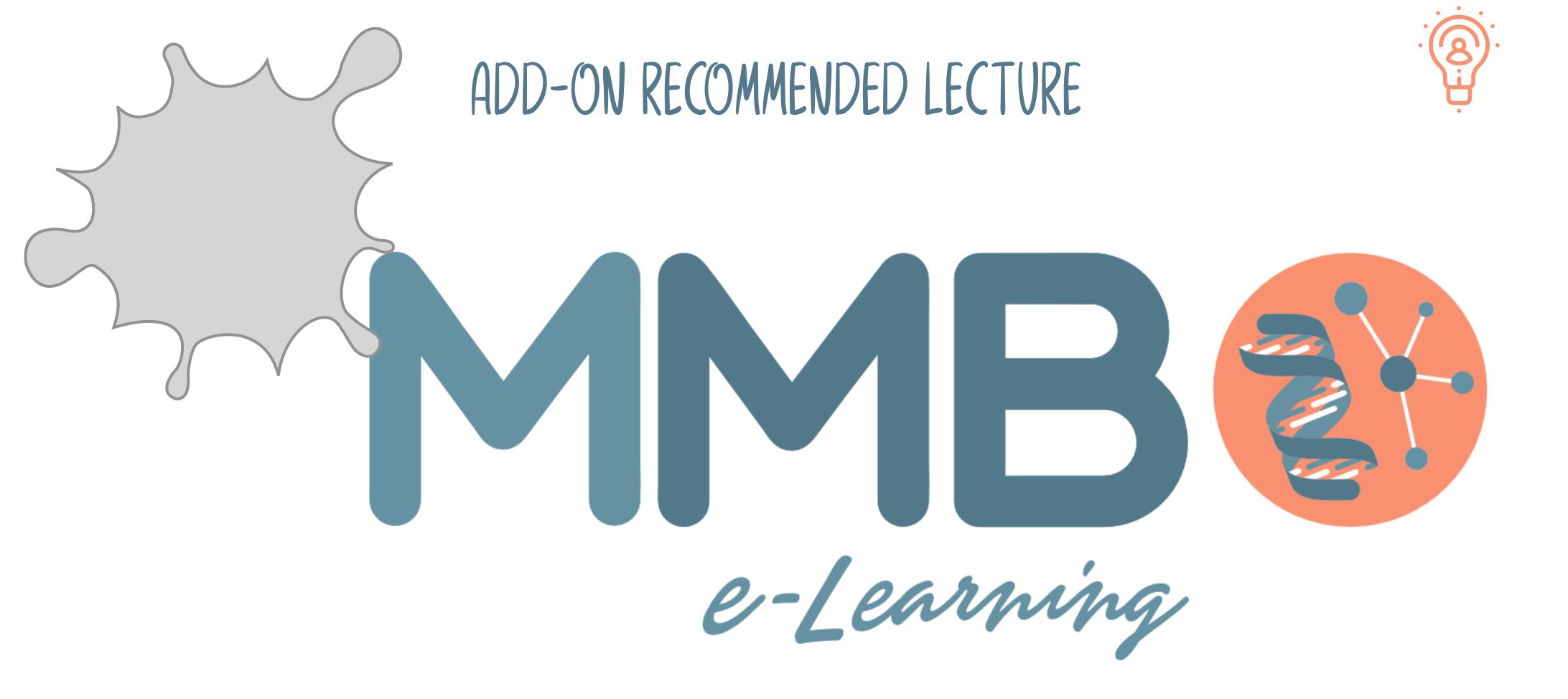
will take place during
the course,
topics will be assigned &
distributed in the first
week of the
computational course

Submission 3 weeks after the course





# MINABORE 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!



...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