

HELLO my name is

BARRY

bjgrant@ucsd.edu

HELLO My name is

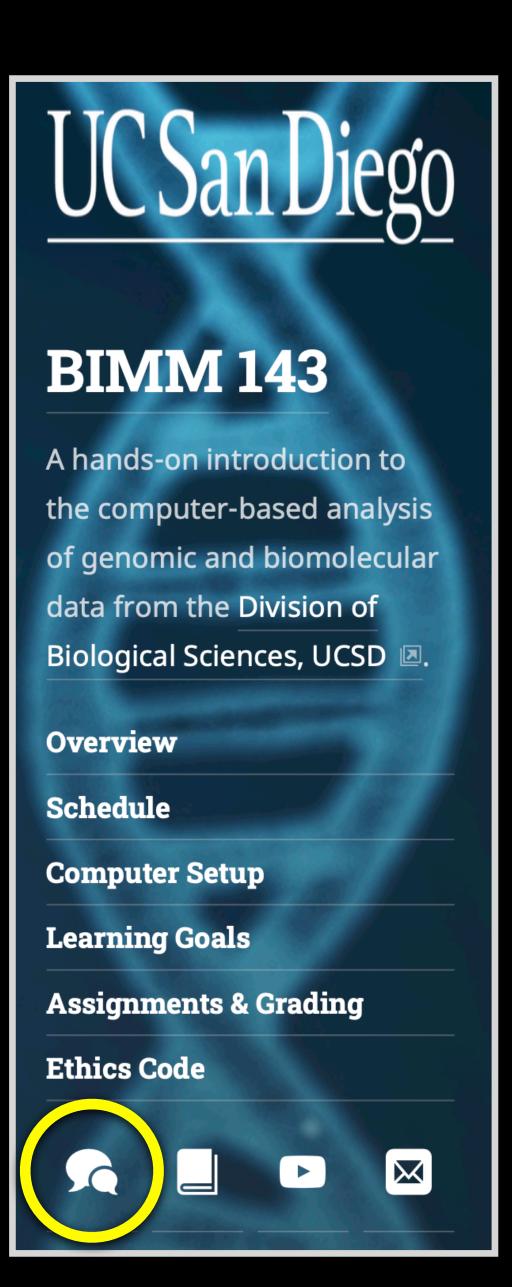
ARIA

floduca@ucsd.edu

Introduce Yourself!

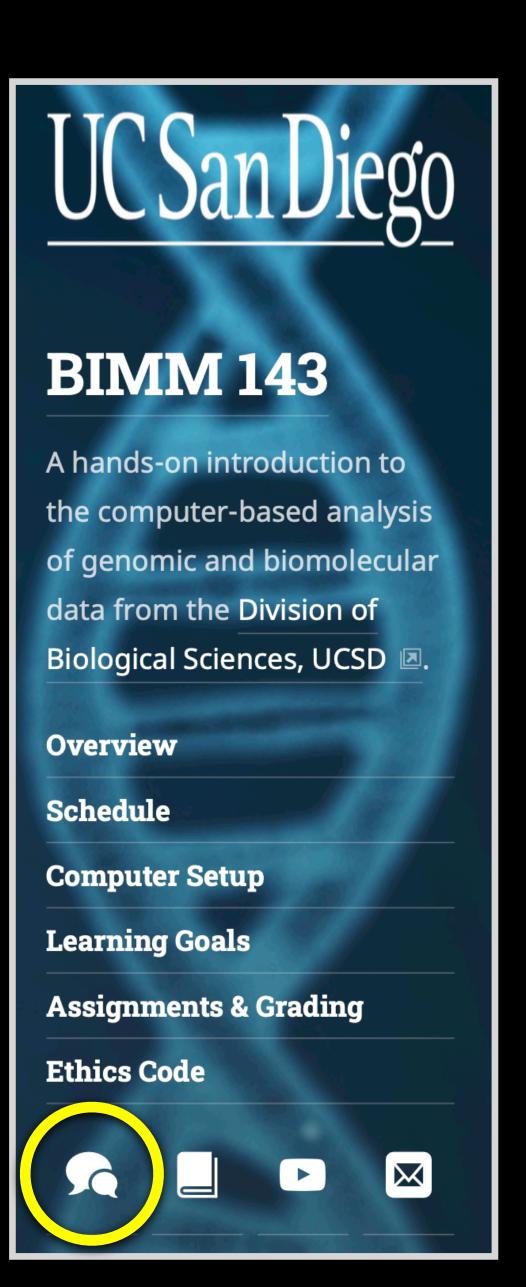
Introduce Yourself!

On Piazza...



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On Piazza...





On Piazza...

■ New Post

[Title:] Your neighbor's name & Table Number

[Body:] Place they identify with most, Major area of study/research, Fun fact or favorite joke!

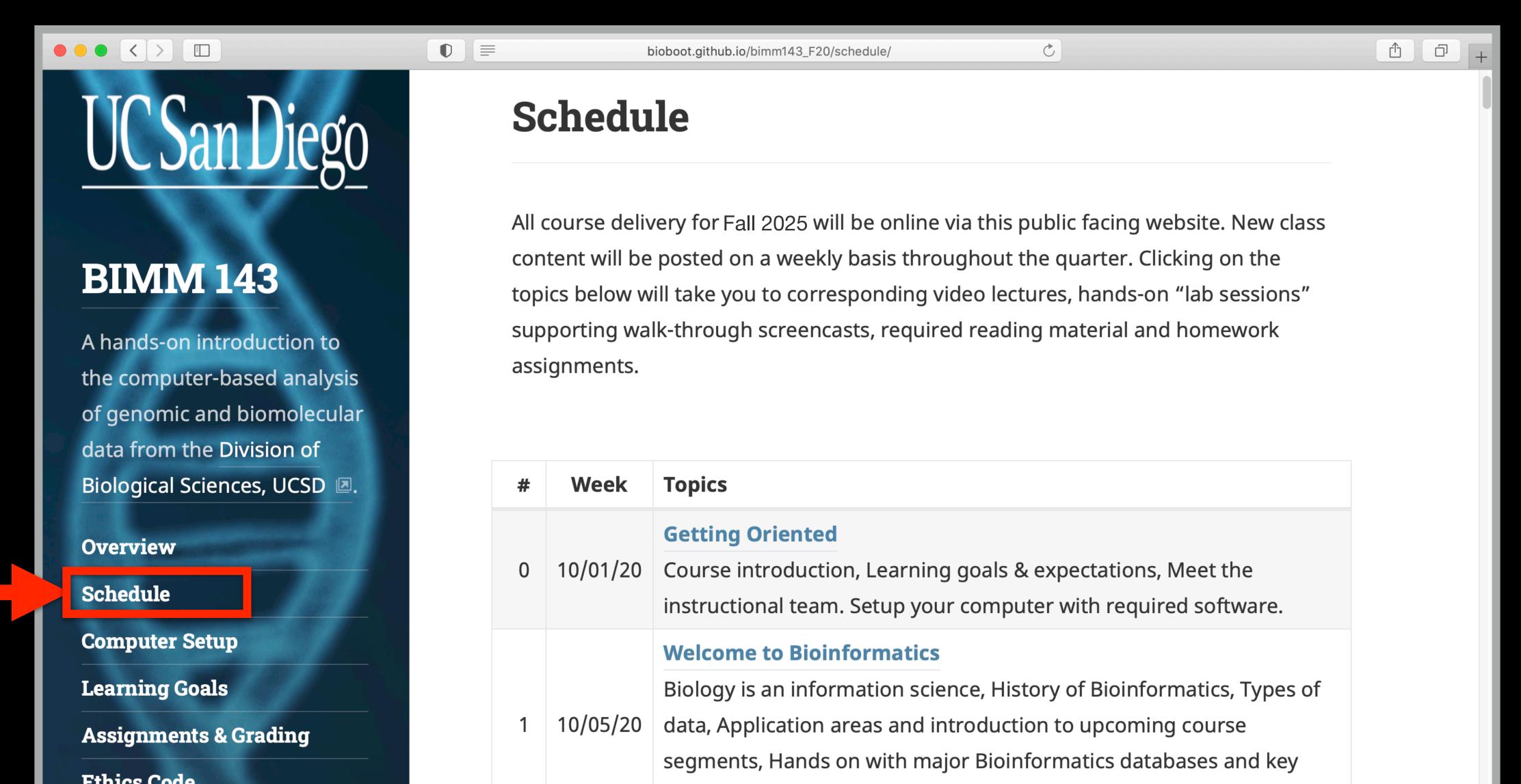
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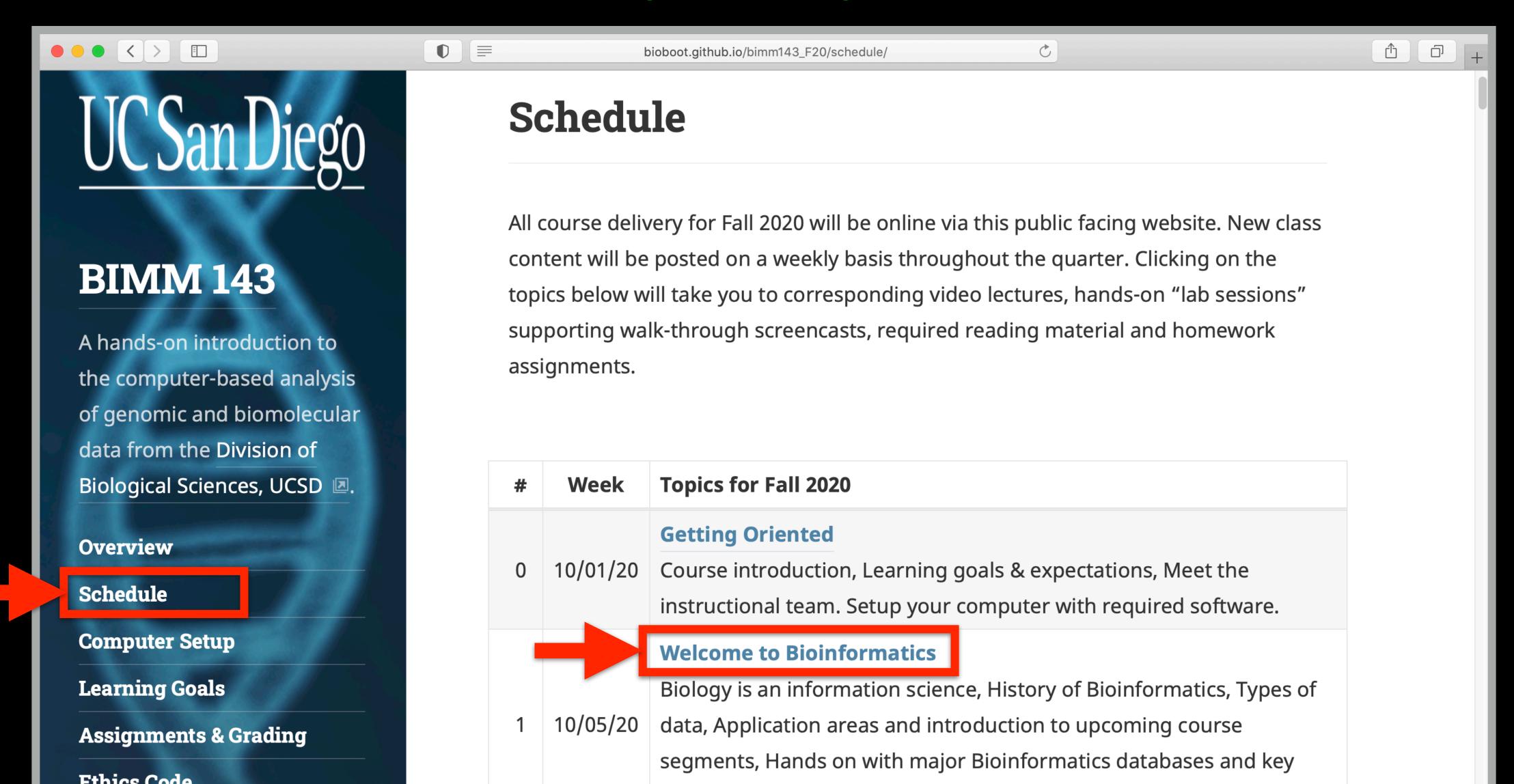
- All assigned work (lab repots and homework) is due on <u>Monday at 12pm</u> of the following week.
 - Generally for each class you will submit your completed lab reports as PDFs to *GradeScope* and complete a review quiz for the following Monday.

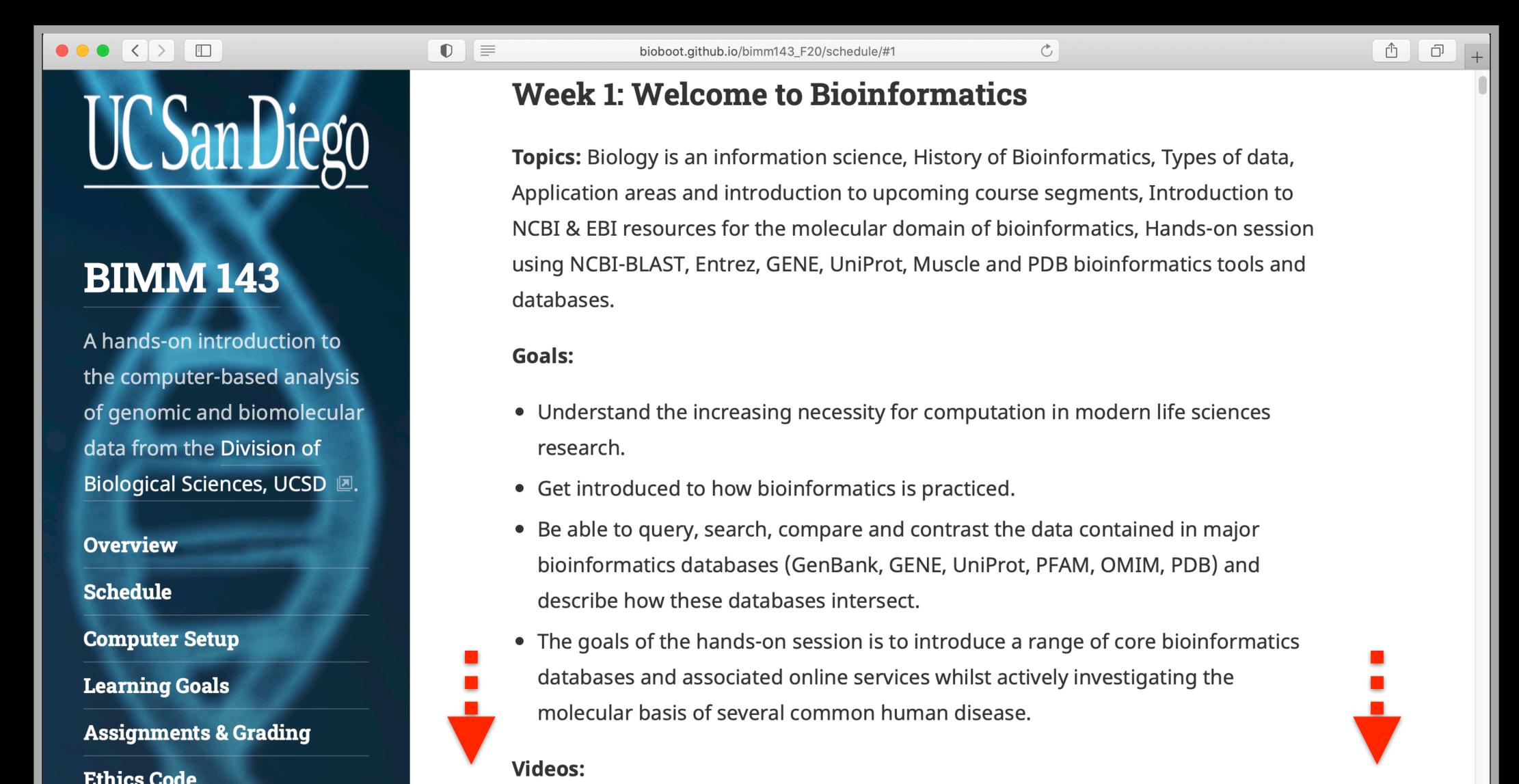
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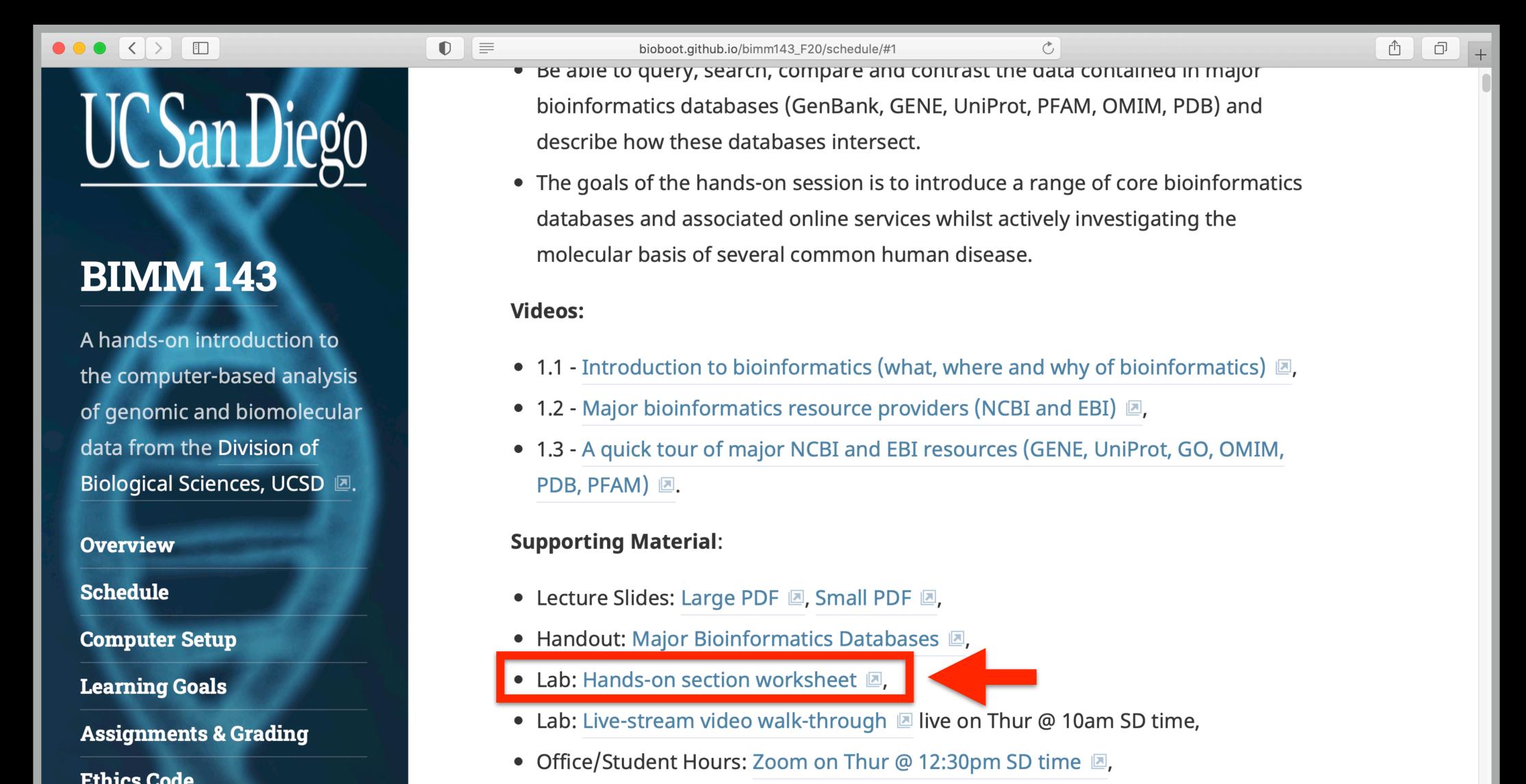
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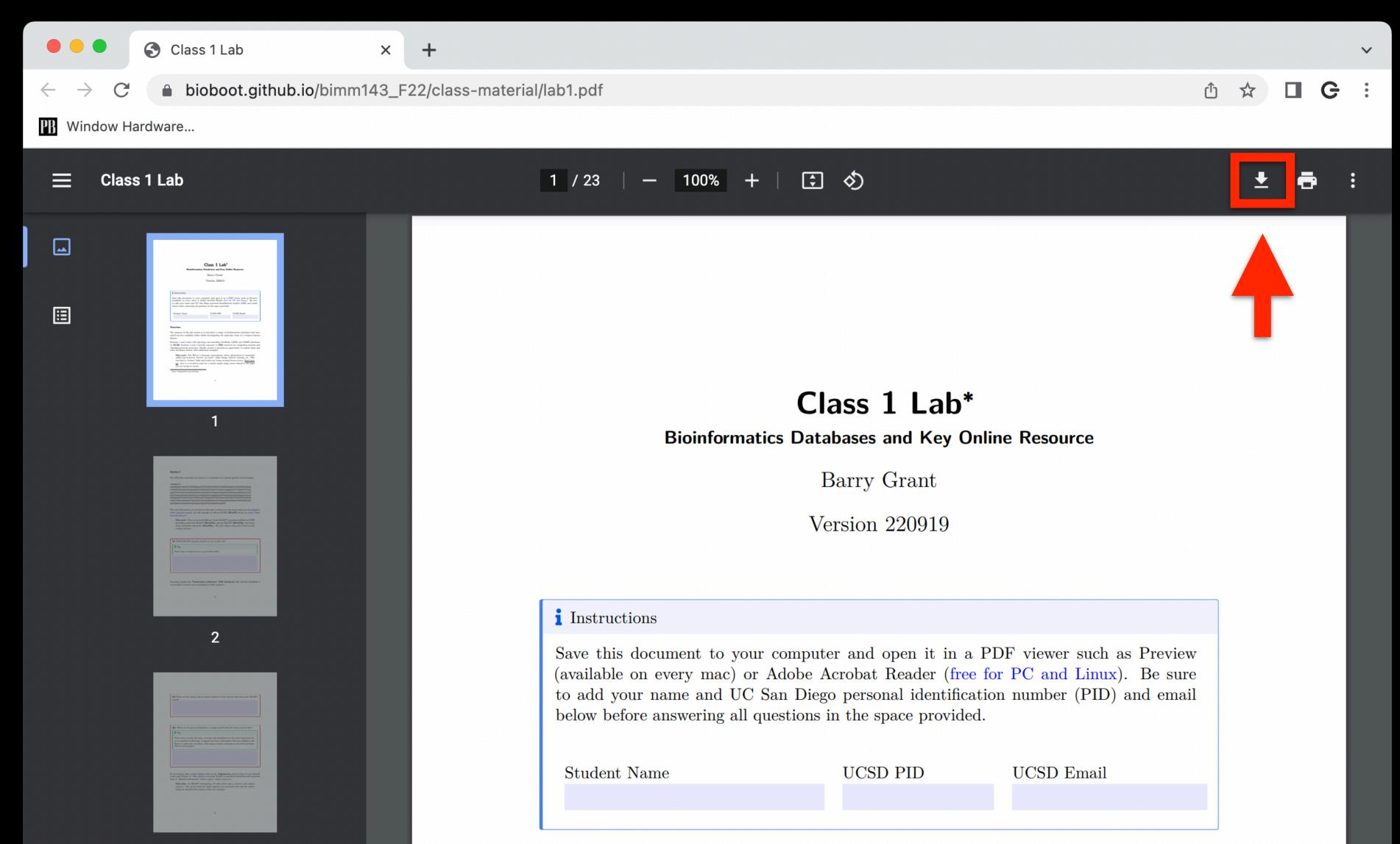
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- There are longer "lab walkthrough videos" available but these are not a substitute for in-person attendance.











GUIDED WALKTHROUGH

• There are four major hands-on sections including:

```
1. BLAST, GenBank and OMIM @ NCBI [~25 mins]
```

— BREAK [10 mins]—

2. GENE database @ NCBI [~20 mins]

— BREAK [5 mins]—

3. UniProt & Muscle @ EBI [~20 mins]

— BREAK [10 mins]—

4. PFAM, PDB & NGL [~25 mins]

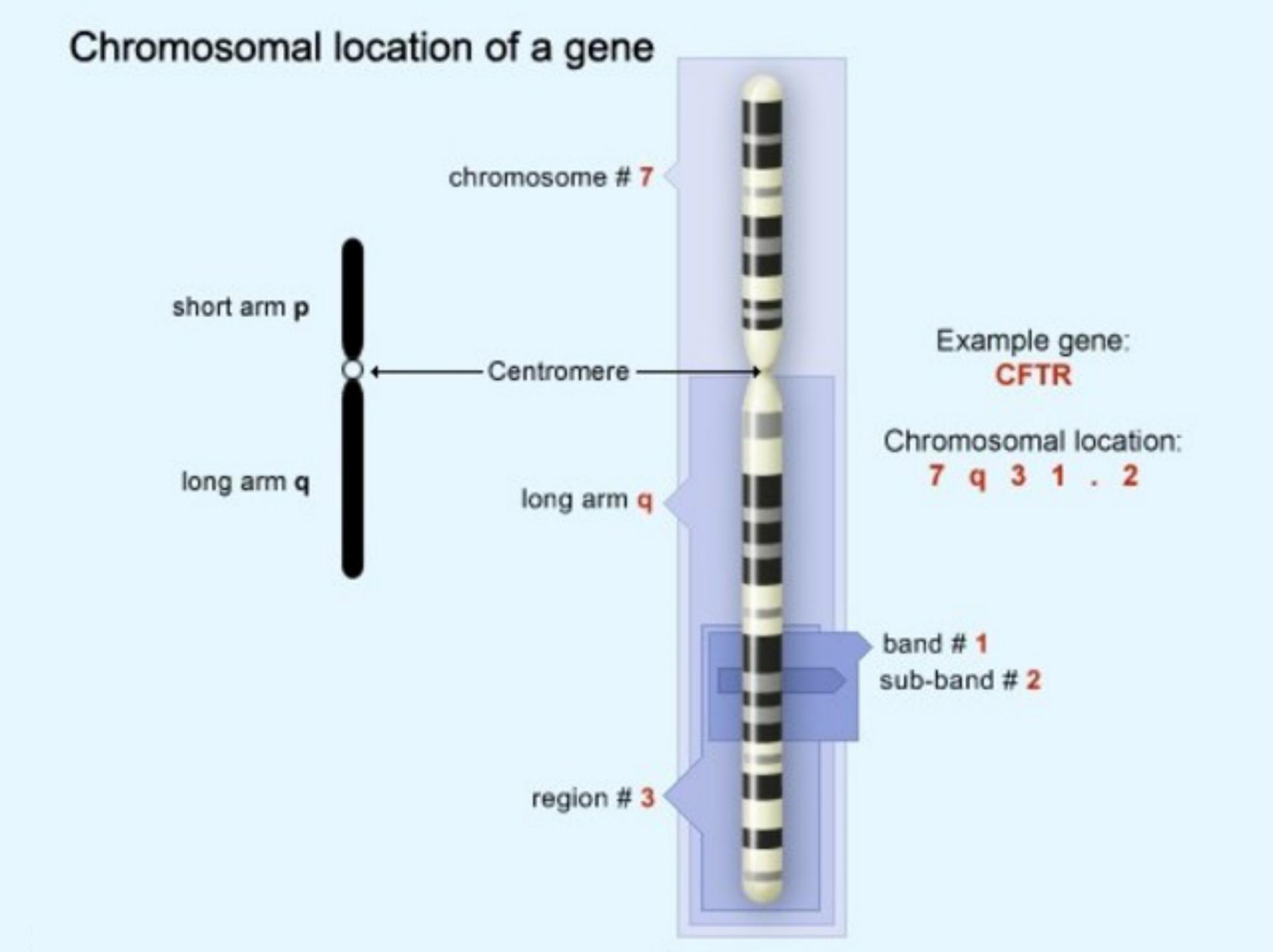
- ▶ Please do answer the last review question (Q19).
- We encourage <u>discussion</u> @ your Table and on Piazza!

GUIDED WALKTHROUGH

• There are four major hands-on sections including:

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BLAST, GenBank and OMIM @ NCBI [9:40 - 10:05am]
BREAK [10 mins]—
```

- 2. GENE database @ NCBI [10:15 10:35am]
 - BREAK [5 mins]—
- 3. UniProt & Muscle @ **EBI** [10:40 11:00am]
 - BREAK [10 mins]—
- 4. PFAM, PDB & NGL [11:10 11:35am]
- ▶ Please do answer the last review question (Q19).
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Summary

- Bioinformatics is computer aided biology.
- Bioinformatics deals with the collection, archiving, organization, and analysis of a wide range of biological data.
- The NCBI and EBI are major online bioinformatics service providers.
- Introduced Gene, UniProt, PDB databases as well as a number of 'boutique' databases including PFAM and OMIM.

Homework:

- Answer the 01_HW_quiz questions on GradeScope \blacksquare ,
- Submit your completed 01_Lab_report (i.e. filled in PDF form) to GradeScope 🗷,
- Readings:
 - PDF1: What is bioinformatics? An introduction and overview
 - PDF2: Advancements and Challenges in Computational Biology

- All assigned work (lab repots and homework) is due on <u>Monday at 12pm</u> each week.
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