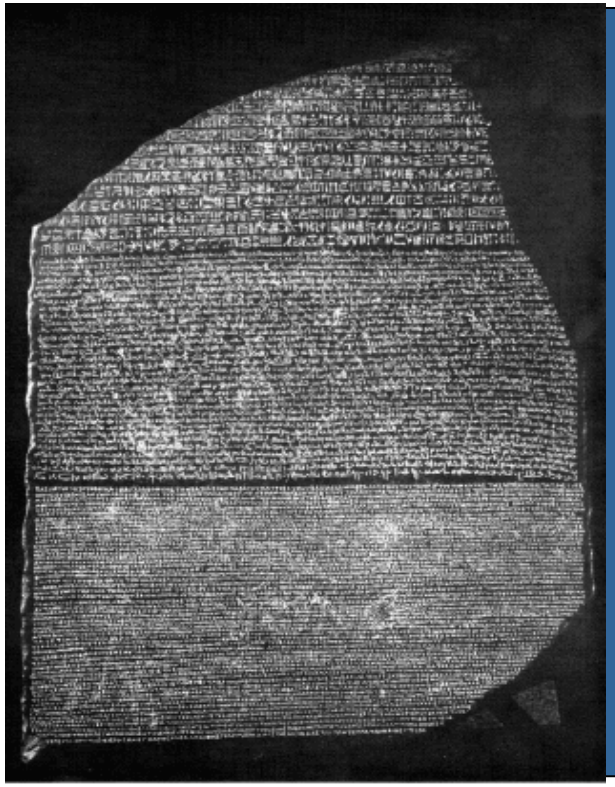

About Computational Genomics Course

Josep F. Abril, PhD

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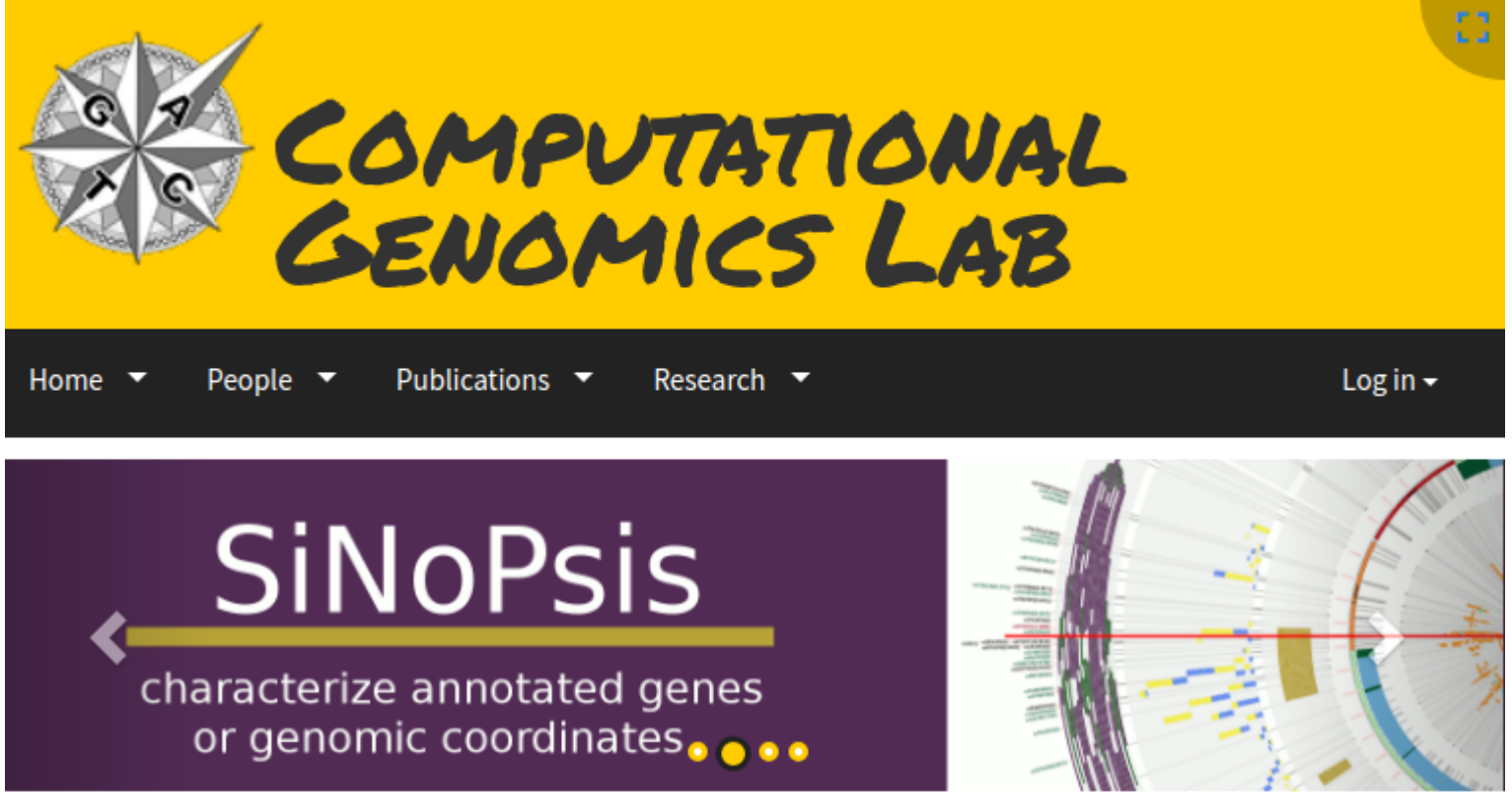
Computational Genomics Lab

https://compgen.bio.ub.edu/

ESCI upf. School of International Studies

Universitat de Barcelona

I→B=U→B



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Computational Genomics

Computational Genomics

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CG Temptative Schedule 24/25

Week	Activity in the classroom Grouping/type of activity	Activity outside the classroom Grouping/type of activity
Week 1 – Session 1 Theory (2h) *Monday	**Introduction to the Subject & Topic.** Objectives of the course, syllabus presentation, grading policy.	
Week 1 – Session 2 Theory(2h)	**Introduction to Computational Genomics:** **Sequences and annotations (starting previous session).**	
Week 2 – Session 3 Practical (2h)	**Validating procedures with submission example. Exercise deliverable 0.**	
Week 3 – Session 4 Theory (2h)	**Sequence Analysis.**	
Week 3 – Session 5 Practical (2h)		Exercise deliverable 1
Week 4 – Session 6 Theory (2h)	**Sequence Analysis. Sequence Assembly.**	
Week 4 – Session 7 Practical (2h)		Exercise deliverable 2
Week 5 – Session 8 Theory (2h) *Wed.	**Sequence Assembly.**	
Week 5 – Session 9 Practical (2h)		Exercise deliverable 3a
Week 6 – Session 10 Theory (2h)	**Gene Finding I**: Basics, Prokaryotic GF.	
Week 6 – Session 11 Practical (2h)		Exercise deliverable 3b
Week 7 – Session 12 Theory (2h)	**Gene Finding II**: Eukaryotic GF, Assessment.	
Week 7 – Session 13 Practical (2h)		Exercise deliverable 4
Week 8 – Session 14 Theory (2h)	**Gene Finding III**: Non-cannonical features, GF assessment.	
Week 8 – Session 15 Practical (2h)		Exercise deliverable 5
Week 9 – Session 16 Theory (2h)	**Regulatory Elements Prediction.**	
Week 9 – Session 17 Practical (2h)		*Exercise deliverable 6*
Wk. 10 – Session 18 Theory (2h)	**Functional Annotation &Annotation Pipelines.**	
Wk. 10 – Session 19 Seminar (2h)	**Annotation Visualization.**	
Wk. 11 – Session 20 Tutorial time (2h)	*Recapitulation, open questions and pending submissions.*	
Exams Week – Final (2h)	**Synthesis Exam (*theory only*)** [To be determined]	**Reassessment Exam (*theory only*)** [To be determined]

Subject Assessment

Evaluation of academic performance for this subject will be based on these two blocs:

Practicals: Continued Evaluation

Students must submit several exercises that will be proposed all along the practical sessions. Details about the formatting and submission procedure will be provided on the first practical session. Students will have about a week to submit each exercise through the links provided on the Virtual Campus. This part does not include any re-evaluation exam as the scores are based on the assessment of the submitted exercises.

Lectures: End Term Synthesis Exam

Theoretical lectures will be assessed by a synthesis exam to be realized at the end of the term on the date assigned in the calendar. Only those students failing this exam can present to the re-evaluation exam, also on the date assigned in the calendar for this purpose.

The students **must pass the end term exam** (50% mark) for the continued evaluation to be considered. The final mark is obtained by summing up the continued evaluation score (**60%**) and the end term score (**40%**). To pass the course requires a minimum of 5 out of 10.

With regard the honor code that students agreed to follow, any attempt of copy detected during the exams will imply the FAILURE of the course. Furthermore, tasks to be submitted individually cannot be solved in groups and each student is responsible for her/his deliverables.

Reporting Practicals

Documents **compiled** with:

```{.sh}
pandoc -f markdown_github -t latex        \
       --variable papersize:a4paper       \
       --variable geometry:margin=1.5cm   \
       --variable fontsize=11pt           \
       --highlight-style pygments         \
       -o README_exercises.pdf            \
          README_exercises.md
```

ADDITIONAL WEB MATERIAL

Virtual Campus @ ESCI-UPF

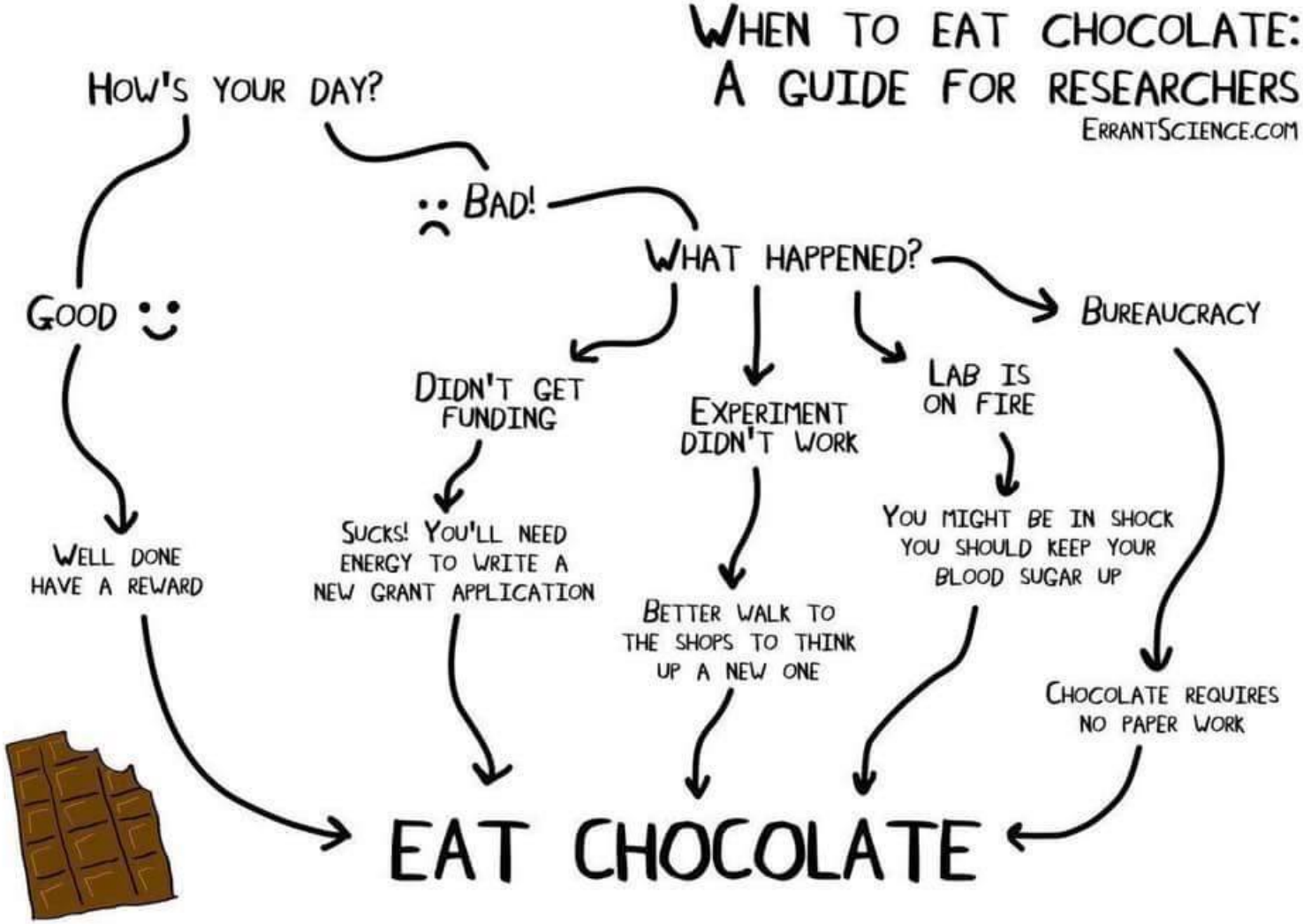
https://aula.esci.upf.edu/course/view.php?id=8516

Further Material @ UB (if needed)

https://compgen.bio.ub.edu/~jabril/teaching/BscBI-CG2425/

***User*: bioinformatics**
***Pswd*: atg01tga**

***Contact Info*: jabril@ub.edu**


WHEN TO EAT CHOCOLATE:
A GUIDE FOR RESEARCHERS
ERRANTSCIENCE.COM
HOW'S YOUR DAY?
GOOD
BAD!
WHAT HAPPENED?
BUREAUCRACY
DIDN'T GET FUNDING
EXPERIMENT DIDN'T WORK
LAB IS ON FIRE
WELL DONE HAVE A REWARD
SUCKS! YOU'LL NEED ENERGY TO WRITE A NEW GRANT APPLICATION
BETTER WALK TO THE SHOPS TO THINK UP A NEW ONE
YOU MIGHT BE IN SHOCK YOU SHOULD KEEP YOUR BLOOD SUGAR UP
CHOCOLATE REQUIRES NO PAPER WORK
EAT CHOCOLATE


KEEP
CALM
AND
USE
LINUX