

# **Reviews in Quantitative Biology**

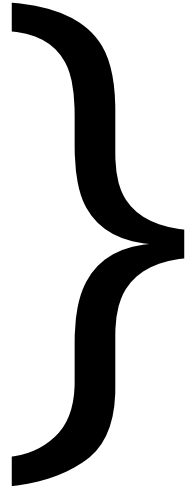
introduction



Christophe Dessimoz

# Course in a Nutshell

**Hear a**  
**Write a**  
**Evaluate a**



**Review**

# **Why review the literature?**

- **Discover and learn new topics**
- **Identify relevant research questions**
- **Build upon existing work**

# **Why write a review?**

- **Introduce proposals, research plans, theses, papers...**
- **Improve your writing skills**
- **Think/understand through writing**

# **Why peer-review?**

- **Be a good citizen**
- **Stay at forefront of research**
- **Sharpen your critical thinking skills**
- **Impress the editor**

# **Learning Outcomes**

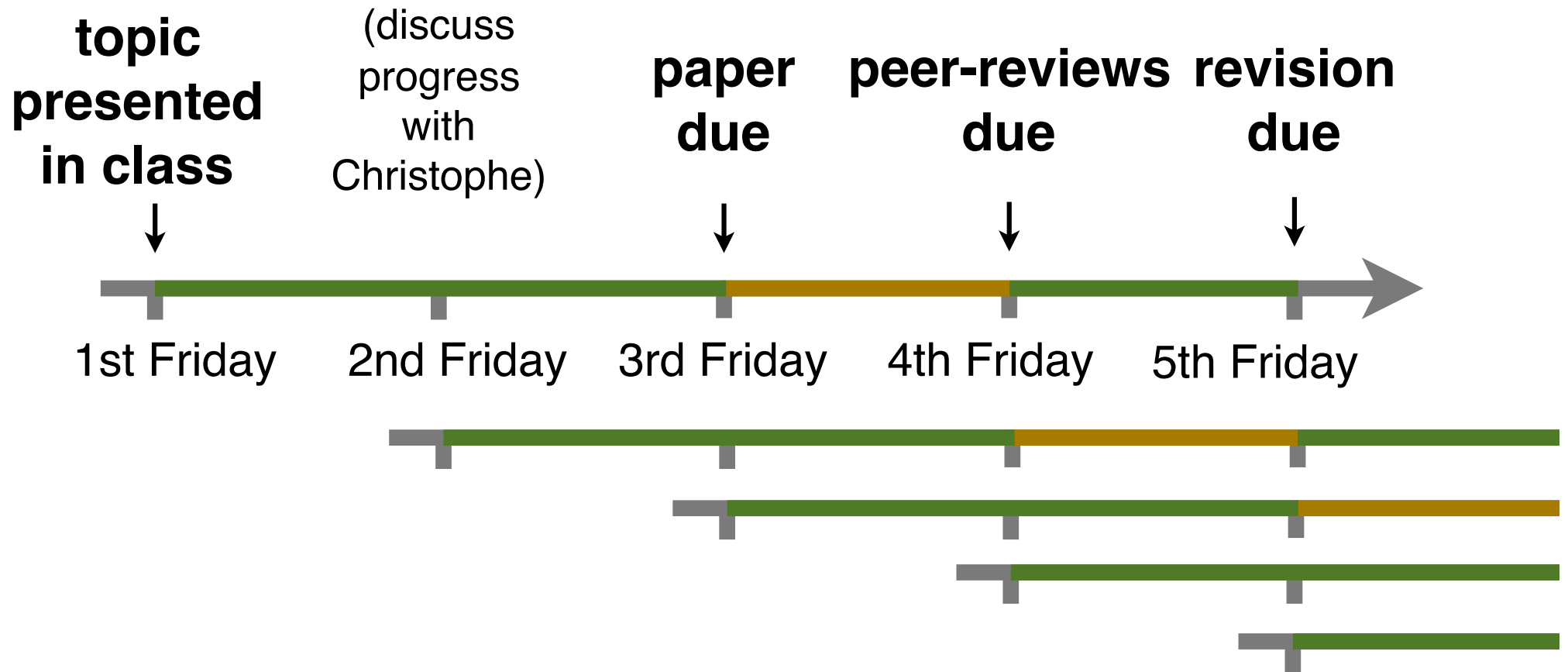
- **Recognise current QB topics**
- **Identify relevant papers**
- **Organise and summarise relevant work in a clear, coherent, succinct review**
- **Provide critical and constructive peer-reviews**
- **Improve your work from peer-reviews**

# Organisation

- **Main tutorial (11am-1pm)**
  - 1hr review on a special topic, usually by an invited speaker
  - 1hr on writing, feedback, meta
  - *Presence mandatory!*
- **Supervisions**
  - Get preliminary feedback on your draft
  - Ask questions, give suggestions, etc..

# Assignments

**Write 1 review and 2 peer-reviews**





# Co-authoring Reviews

- **Reviews are written in groups**
- **Include a statement of author contribution at the end, e.g.:**

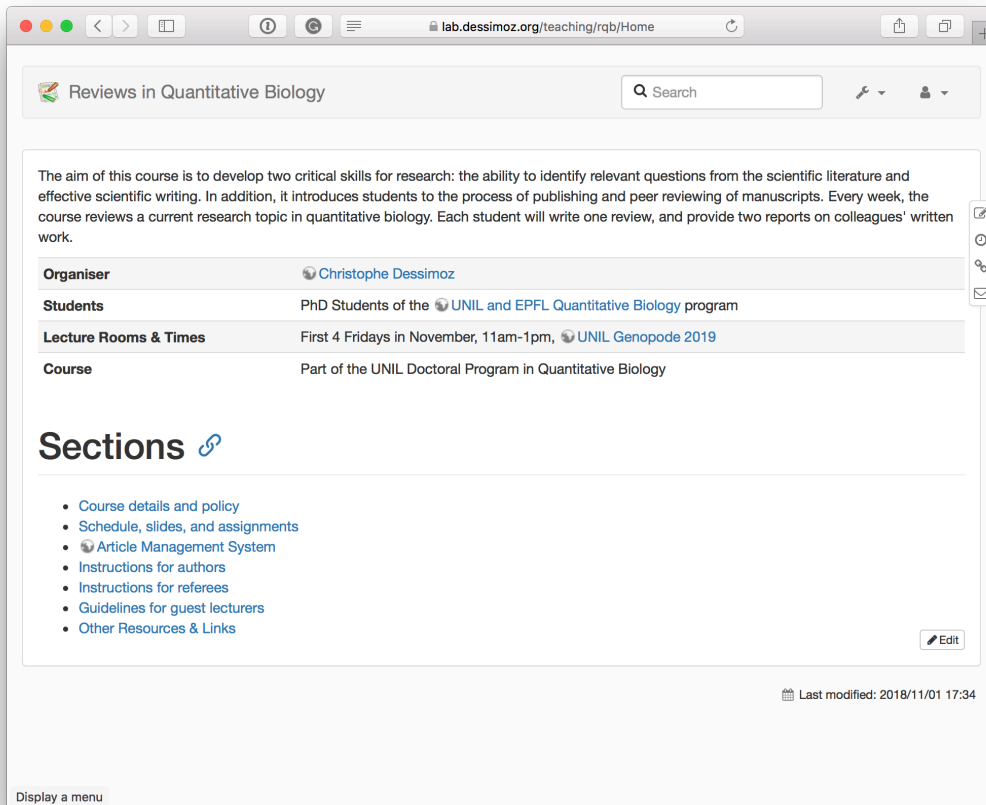
*JS wrote most of the introduction and section on PPI network and produced Table 1. CD wrote most of the section on regulatory network and produced the figures.*

# Manuscript

- **Quality matters more than quantity, but ~2000 words is a typical length.**
- **Write with Google Docs + paperpile or with Overleaf**
- **Initially submit as a PDF only with a references and any images and tables.**
- **Revised version as a PDF with a cover letter addressing the referees' criticisms.**

# Course Homepage

<http://lab.dessimoz.org/teaching/rqb>



The screenshot shows a web browser window displaying the course homepage. The browser's address bar shows the URL [lab.dessimoz.org/teaching/rqb/Home](http://lab.dessimoz.org/teaching/rqb/Home). The page title is "Reviews in Quantitative Biology". A search bar is located at the top right. The main content area includes a paragraph describing the course's aim: "The aim of this course is to develop two critical skills for research: the ability to identify relevant questions from the scientific literature and effective scientific writing. In addition, it introduces students to the process of publishing and peer reviewing of manuscripts. Every week, the course reviews a current research topic in quantitative biology. Each student will write one review, and provide two reports on colleagues' written work." Below this is a table with course details:

Organiser	Christophe Dessimoz
Students	PhD Students of the UNIL and EPFL Quantitative Biology program
Lecture Rooms & Times	First 4 Fridays in November, 11am-1pm, UNIL Genopode 2019
Course	Part of the UNIL Doctoral Program in Quantitative Biology

Below the table is a section titled "Sections" with a list of links:

- [Course details and policy](#)
- [Schedule, slides, and assignments](#)
- [Article Management System](#)
- [Instructions for authors](#)
- [Instructions for referees](#)
- [Guidelines for guest lecturers](#)
- [Other Resources & Links](#)

An "Edit" button is located at the bottom right of the sections list. At the bottom of the page, it says "Last modified: 2018/11/01 17:34".

- **Course details**
- **Schedule**
- **Slides**
- **Link to course journal (+article management)**

<b>Week</b>	<b>Date</b>	<b>11:00-12.00</b>	<b>12:00-13:00</b>	<b>Assigned Student(s)</b>
1st	2 Nov	Introduction & Review Writing	Review on phylometagenomics	Özel, Rossier, Ruzzante, Vessman
2nd	9 Nov	Review on single-cell transcriptomics by David Gfeller (DOF)	Peer-reviewing	Bouvet, Atta Ur, Fernandez, Li
3rd	16 Nov	Review on structural variant calling by Fritz Szedlaceck (Baylor College)	Editing	Cruz-Davalos, Gobet, Mounier, Patxot, Reveney
4th	23 Nov	Review on computational image analysis of social insects by Yuko Ulrich (DEE)	Getting published by Natasha Glover (CIG/DBC)	Chiu, de Guttry, Engel, Sulc

# Course Journal

<https://easychair.org/conferences/?conf=revqb18>

The screenshot shows a web browser window with the URL [www.easychair.org/conferences/submission\\_new.cgi?a=20211303#\(fr:grnRwfGV\)](https://www.easychair.org/conferences/submission_new.cgi?a=20211303#(fr:grnRwfGV)). The page title is "RevQB18 (chair)". The navigation menu includes: Submissions, Reviews, Status, PC, Events, Email, Administration, RevQB18, Premium, News, Alerts, and EasyChair. The main content area is titled "New Submission for RevQB18" and contains the following text:

Follow the instructions, step by step, and then use the "Submit" button at the bottom of the form. The required fields are marked by (\*).

**Author Information**  
For each author please fill out the form below. Some items on the form are explained here:

- **Email address** will only be used for communication with the authors. It will not appear in public Web pages of this conference. The email address can be omitted for not corresponding authors. These authors will also have no access to the submission page.
- **Web page** can be used on the conference Web pages, for example, for making the program. It should be a Web page of the author, not the Web page of her or his organization.
- Each author marked as a **corresponding author** will receive email messages from the system about this submission. There must be at least one corresponding author.

**Author 1** (click here to add yourself) (click here to add an associate)

First name<sup>†</sup>:   
Last name (\*):   
Email (\*):   
Country (\*):   
Organization (\*):   
Web page:   
 corresponding author

**Author 2** (click here to add yourself) (click here to add an associate)

First name<sup>†</sup>:   
Last name (\*):   
Email (\*):   
Country (\*):   
Organization (\*):   
Web page:   
 corresponding author

Display a menu

# Authorship according

to  Genome **Biology**

*To qualify as an author one should*

*1) **have made substantial contributions** to conception and design, or acquisition of data, or analysis and interpretation of data;*

*2) **have been involved in drafting the manuscript** or revising it critically for important intellectual content; and*

*3) **have given final approval** of the version to be published.*

*[...] **Acquisition of funding, collection of data, or general supervision of the research group, alone, does not justify authorship.***

# Share credit with lecturer

- In virtually all cases to date, reviews written in this course heavily draw from the presentation.
- Thus, the speaker is typically listed as last author on your submission.
- Note that if this was a \*real\* submission, the other two requirements would also need to be fulfilled.

# **My Expectations**

- **Demanding tutorial**
- **Presence and participation on Fridays**
- **Strong commitment to both review and peer-review**
- **Intellectual honesty: no plagiarism nor fabrication!**



# Your Expectations

