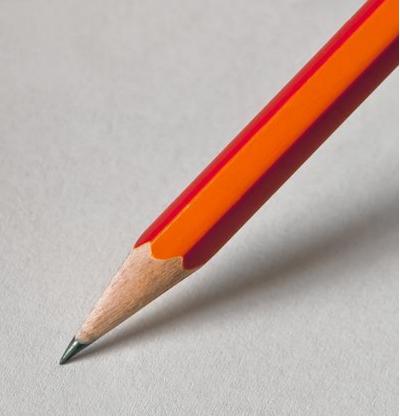
# Reviews in Quantitative Biology

Introduction

Natasha Glover & Christophe Dessimoz 22 Nov 2024



# How many people...

- Know what is a review?
- Have read a review?
- Have written a review?
- Have published a review?

#### What exactly is a review?

- A scholarly article that synthesizes the literature on a topic.
- Comes in different flavours:
  - Provides an overview of the current understanding
  - Identifies trends, highlights significant findings
  - Discusses the main methodologies and approaches within the field
  - Offers a comprehensive background for readers who wish to get informed about the state of research on a given subject
  - Identifies gaps in knowledge
  - Set the context or an agenda for further research

### **Tutorial in a nutshell**

Hear a
Write a
Evaluate a

## 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
- •Improve your science communication skills
- Think/understand through writing

# Why peer review?

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

Time	Lecturer	Presentation	
9h	CD	Introduction	
9h10	Prof. Sonja Lehtinen	The fitness cost of antibiotic resistance from observational data	
10h05	break		
10h20	Prof. Santiago Carmona	What is a cell type? Conceptual and quantitative definitions of cell type in the single-cell omics era	
11h15	break	break	
11h30	Prof. Anne-Florence Bitbol	Protein Language Models	
12h25	Lunch break (including discussions in groups)		
13h15	NG	How to write a review paper	
14h15	NG	Writing science in plain English	
15h15	CD	How to do a peer review and easychair tutorial &More tips for peer reviewing & Editing & responding to reviewers	

# **Planning**

- Today: topic confirmed, writing teams formed (over lunch break)
- 22 Nov to 9 Dec 2024: writing of review. Submission by 23h59 through EasyChair.
- 10-11 Dec 2024: possibility to express peer-review preference on EasyChair
- 12-18 Dec 2024: peer-review. Submission by 23h59 through EasyChair
- 19 Dec-9 Jan 2025: revisions according to peer-review

#### Some success stories

Review | Open access | Published: 20 November 2019

#### Structural variant calling: the long and the short of it

Medhat Mahmoud, Nastassia Gobet, Diana Ivette Cruz-Dávalos, Ninon Mounier, Christophe Dessimoz

☑ & Fritz J. Sedlazeck ☑

Genome Biology 20, Article number: 246 (2019) Cite this article

86k Accesses | 97 Altmetric | Metrics

Cited by 602 (google scholar, Nov 24)

HGG

Advances

**REVIEW** 

From pharmacogenetics to pharmaco-omics: Milestones and future directions

Chiara Auwerx, 1,2,3,4,5 Marie C. Sadler, 2,3,4,5 Alexandre Reymond, 1,\* and Zoltán Kutalik<sup>2,3,4,\*</sup>

Review Open access | Published: 14 October 2024

Cited by 32 (google scholar, Nov 24)

#### When less is more: sketching with minimizers in genomics

Malick Ndiaye, Silvia Prieto-Baños, Lucy M. Fitzgerald, Ali Yazdizadeh Kharrazi, Sergey Oreshkov, Christophe Dessimoz, Fritz J. Sedlazeck, Natasha Glover & Sina Majidian <sup>™</sup>

Genome Biology 25, Article number: 270 (2024) Cite this article

2370 Accesses 23 Altmetric Metrics

Cited by 2 (google scholar, Nov 24)

#### **Guest Lectures**