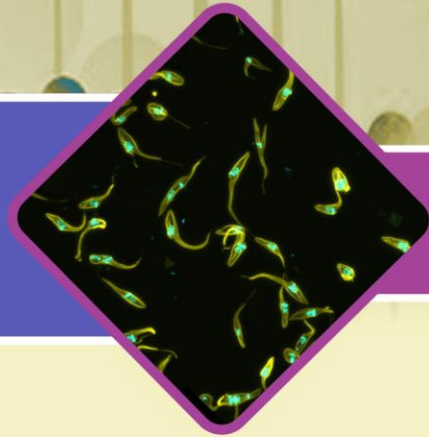


# Webinar: “Model organisms for biotechnology development: application of x-omics data”



1-3-9-10-15  
December 2020



UNIVERSIDAD  
NACIONAL  
DE LA PLATA

*Our goal is to provide a state of the art of the available tools and biological models to overcome the overwhelming amount of existing data as we enter the 'post-genomic era'. Recently, 'genome-wide' expression profiling methods at the level of the transcriptome and proteome have come to the fore. Whilst over recent years there has been a tremendous drive to develop analytical technology and databases for 'transcriptomics' and 'proteomics', integrative analysis strategies for this omic data has yet to emerge. On the other hand, working on the hypothetical gene products from different genomes need to be validated in appropriate model organisms. We aim at describing several classical models as well as no that classical.*

## Speakers

- ◆ **Dr. Guillermo Alonso.** INGEBI-CONICET / FCEN-UBA, Argentina.
- ◆ **Dr. Francisco Velázquez Duarte.** iB3, FCEN-UBA / CONICET, Argentina.
- ◆ **Dra. Marcela Cucher.** IMPaM /UBA-CONICET, Argentina.
- ◆ **Dr. Malcolm Kennedy.** Glasgow University, UK.
- ◆ **Dra. Laura Kamenetzky.** iB3, FCEN-UBA / CONICET, Argentina.
- ◆ **Dra. Carolina Bagnato.** IEDS CNEA Bariloche / CONICET, Argentina.

## Coordinators:

Gisela Franchini  
Laura Kamenetzky  
Guillermo Alonso



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Latin America and the Caribbean

Contact email: [xomics.webinar2020@gmail.com](mailto:xomics.webinar2020@gmail.com)  
For updates please visit [www.inibiolp.org.ar](http://www.inibiolp.org.ar)

Applications will be received until November 30<sup>th</sup>

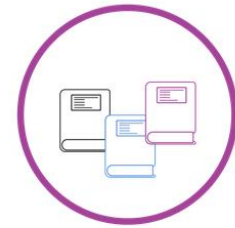
Please use the following link: <https://forms.gle/FgPwjQszF8FyCRJr8>



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## Model organisms for biotechnology development: application of x-omics data

**Coordinator:** Gisela Franchini, UNLP

**Contact e-mail:** [xomics.webinar2020@gmail.com](mailto:xomics.webinar2020@gmail.com); [gfranchini@biol.unlp.edu.ar](mailto:gfranchini@biol.unlp.edu.ar)

**Target audience:** Graduates or Master or Doctorates in careers related to life sciences (Biotechnology, Biology, Biochemistry, Genetics, Veterinary Medicine, Medicine and related careers). Other careers will be contemplated in the event that the postgraduate student has specialized in the subject matter (for example, Bachelor of Computer Science doing the Doctorate in Bioinformatics).

**To apply to this webinar please fill in the form:**

<https://forms.gle/BWxpEYehmCrefywr9>

### Webinar program

#### X-omics and Biological models for protozoans (Two sessions).

1) 1/12/2020

**Dr. Guillermo Alonso**

18-19 hs Title: “**Structural and functional characteristics of the genomes of different taxonomic groups**”

19-20 hs Paper discussion: <https://pubmed.ncbi.nlm.nih.gov/16188433/>

2) 3/12/2020

**Dr. Francisco Velázquez Duarte**

18-19 hs Title: “**Dictyostelium discoideum as model organism for human diseases**”

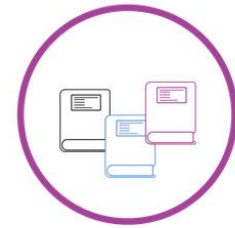
19-20 hs Paper discussion: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5797601/>



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## X-omics and Biological models for parasitic helminths (Two sessions).

3) 9/12/2020

***Dr. Marcela Cucher***

18-19 hs Title: “**Transcriptomic data analysis of small RNAs**”

19-20 hs Paper discussion: <https://journals.plos.org/plosntds/article?id=10.1371/journal.pntd.0007811>

4) 10/12/2020

***Dr. Malcolm Kennedy***

16 -17 hs Title: “**Parasitic nematodes and ways to study them**” **Might suffer modifications**

***Dr. Laura Kamenetzky***

18-19:30 hs Title: “**Helminth parasite genomes: new tools for the study of the host- parasite relationship**”

Paper discussion: <https://www.nature.com/articles/s41588-018-0262-1>

## X-omics and Biological models for algae (one session).

5) 15/12/2020

***Dra. Carolina Bagnato***

18-19 hs Title “**Gene sequence functional annotation by phylogeny and computational methods: its application in algae**”

19-20 hs Paper discussion: <https://pubmed.ncbi.nlm.nih.gov/28660584/>

**IMPORTANT!** During each session interactive activities will be carried out based on selected papers that will be distributed in advance. Additionally, a final on-line exam through google docs will be used to evaluate the whole set of sessions based on the selected papers.