Tamara **Sternlieb**

PhD

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Tamara is a scientist specialized in the study of pathogenic parasites, a bioinformatics and system biology enthusiast, eager to expand the toolbox for biotechnology research.

Education

Universidad de Buenos Aires Facultad de Ciencias Exactas y Naturales — *Buenos Aires*

PhD in Biological Sciences — *2015 - 2020*

Universidad Nacional de San Martín — *Buenos Aires*

MSc. in Biotechnology / Licenciada en Biotecnología — *2007 - 2015*

Work experience

PhD student in the Signaling and Adaptive Mechanisms in Trypanosomatids lab — *INGEBI-CONICET*

Evaluation of the role of adenosine nucleotides in the stress response pathways of *Trypanosoma cruzi* — *2015-2020*

Bioinformatic Internship in the Protein Physiology lab of the Biochemistry department — *Universidad de Buenos Aires*

Readapting a C++ script aimed to find repetitive motifs in protein sequences to Python — *2012-2013*

Languages:

- **Spanish**: mother tongue.
- **English**: advanced speaking, writing and reading.
- **Hebrew**: intermediate speaking, writing and reading.

Skills

These are some of the skills and knowledge I aquired during my training, education and courses

- **Molecular biology assays**:
  Western blots; PCR; cloning; cellular transfection in different types of cells; bacterial, yeast, parasite and mammalian cells culture; microscopy and fluorescent microscopy; protein quantification and enzymatic activity assessment.
- **Bioinformatic tools**:
  Use of on-line databases containing omics information (Ensembl Browser Workshop 2019); Analysis and processing of fluorescence microscopy images with FIJI; Biostatistics; coding and data analysis with R.
- **Specialyzed knowledge**:
  Crispr/Cas9 genetic modification technique (several courses between 2016 and 2018); Molecular system biology; Signal transduction pathways.
- **Other informatic tools**:
  Office 365 package; GraphPad Prism; LaTeX; Git; Inkscape; Photoshop.
- **Public speaking**:
  I have attended and presented my scientific work in several national and international conferences, both orally and in poster format.

Publications

AMP-activated protein kinase: A key enzyme to manage nutritional stress responses in parasites with complex life cycles — *2020*

http://dx.doi.org/10.1101/2020.04.08.032284 — *bioRxiv*

Intracellular cyclic AMP levels modulate differential adaptive responses on epimastigotes and cell culture trypomastigotes of Trypanosoma cruzi *2020*

HTTP://DX.DOI.ORG/10.1016/J.ACTATROPICA.2019.105273 *Acta Tropica*

Intracellular cyclic AMP levels modulate differential adaptive responses on epimastigotes and cell culture trypomastigotes of Trypanosoma cruzi *2019*

HTTP://DX.DOI.ORG/10.1101/677112 *bioRxiv*

Methods to Investigate Signal Transduction Pathways in Trypanosoma cruzi: Cyclic Nucleotide Phosphodiesterases Assay Protocols *2020*

HTTP://DX.DOI.ORG/10.1007/978-1-0716-0294-2_31 *Methods in Molecular Biology*

Signal Transduction Pathways as Therapeutic Target for Chagas Disease *2019*

HTTP://DX.DOI.ORG/10.2174/0929867326666190620093029 *Current Medicinal Chemistry*

TbVps15 is required for vesicular transport and cytokinesis in Trypanosoma brucei *2018*

HTTP://DX.DOI.ORG/10.1016/J.MOLBIOPARA.2017.11.004 *Molecular and Biochemical Parasitology*

The Phosphatidylinositol 3-kinase Class III Complex Containing TcVps15 and TcVps34 Participates in Autophagy inTrypanosoma cruzi *2017*

HTTP://DX.DOI.ORG/10.1111/JEU.12367 *Journal of Eukaryotic Microbiology*