

# Tomás Masson

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## Current Position

PhD Candidate, Molecular Virology

2016-Present

Thesis title: ‘Characterization of Autochthonous Baculovirus as Candidates for the Control of the Fall Armyworm (*Spodoptera frugiperda*)’

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## Education

Masters Degree (Licenciatura) in Biotechnology and Molecular Biology  
La Plata National University

2011-2016

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## Awards and Funding

- Young Investigators Travel Fellowship Program 2019  
11th International Meeting of the Global Virus Network Global Virus Network (GVN)  
Barcelona, Spain
  - Short term visit at CNPEM Electron Criomicroscopy Group 2019  
National Laboratory of Nanotechnology (LNNano)  
National Center for Energy and Materials Research (CNPEM)  
Campinas, Brazil
  - PhD fellowship 2016-2021  
National Council of Scientific and Technical Research (CONICET) Argentina
  - Scholarship for Undergraduate Research 2014-2016  
National Interuniversity Council (CIN) Argentina
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## Peer-Reviewed Publications

- Gisonno R<sup>#</sup>, **Masson T<sup>#</sup>**, Ramella N, Barrera EE, Romanowski V & Tricerri MA (2020). Evolutionary and Structural Constraints Influencing Apolipoprotein A-I Amyloid Behavior. *BioRxiv*. [Link](#)
- Fabre ML, **Masson T**, Haase S, Ferrelli ML & Romanowski V (2020). A Simplified Strategy to Package Foreign Proteins into Baculovirus Occlusion Bodies without Engineering the Viral Genome. *Journal of Biotechnology*. 307, 175-181. [Link](#)
- **Masson T**, Fabre ML, Pidre ML, Ferrelli ML, Romanowski V (2019). Protein Composition of the Occlusion Bodies of *Epinotia aporema* Granulovirus. *PLoS ONE* 14(2): e0207735. [Link](#)

- Ferrelli ML, Pídre ML, Ghiringhelli PD, Torres S, Fabre ML, **Masson T**, Cédola MT, Sciocco-Cap A and Romanowski V (2018). Genomic Analysis of an Argentinean Isolate of *Spodoptera frugiperda* Granulovirus Reveals that Various Baculoviruses Code for Lef-7 Proteins with Three F-box Domains. PLoS ONE 13(8): e0202598. [Link](#)
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## Skills and Techniques

Languages: spanish (native) and english (proficient)

Experimental (wet lab):

- Insect cell culture
- Insect *in vivo* assays
- Virus amplification and purification
- Molecular cloning (cloning design, PCR, restriction/ligation)
- Protein analysis (SDS-PAGE, mass spectrometry sample preparation)
- High-Throughput DNA sequencing sample preparation

Computational (dry lab):

- Bash, Git and Python proficiency
  - Intermediate level in R
  - Implementation of Snakemake pipelines
  - Analysis of genomic data
  - Phylogenetic reconstructions
  - Data analysis with Python Stack (Numpy, Pandas, Scikit-Learn, Seaborn)
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## Scientific Meetings

- XLVIII Annual Meeting of the Argentine Society of Biophysics 2019  
National University of San Luis  
San Luis, Argentins  
Lighting Talk/Poster Presentation:  
“Structural Properties of Apolipoprotein A1 Associated with Evolutionary Constraints”  
**Masson T**, Tricerri MA, Ramella NA, Gisonno RA
- 11th International Meeting Global Virus Network (GVN) 2019  
Spanish Society of Virology  
Barcelona, Spain  
Poster Presentations:  
“Proteogenomic Analysis of EpapGV occlusion body”  
**Masson T**, Fabre ML, Pídre ML, Ferrelli ML, Romanowski V

“Recombinant Polyhedron Envelope Protein Produced by a Stably Transformed Insect Cell Line can be Included in the Occlusion Bodies upon Infection with Alternative Baculoviruses”  
Fabre ML, **Masson T**, Ferrelli ML, Romanowski V

- XXXVIII Annual Meeting of the Argentine Society of Virology 2019  
Argentine Society of Virology  
Vaquerías, Córdoba  
Oral presentations:  
“*Epinotia aporema* Granulovirus Occlusion Bodies Proteome”  
Ferrelli ML, **Masson T**, Fabre ML, Pidre ML, Romanowski V  
“Improvement of the Baculovirus of *Anticarsia gemmatilis* as a Biological Control Agent by Incorporating Heterologous Proteins in the Occlusion Bodies”  
Fabre ML, **Masson T**, Ferrelli ML, Romanowski V
- XII Argentine Congress of Virology 2017  
Argentina Society of Virology  
Ciudad Autónoma de Buenos Aires, Argentina  
Poster Presentations:  
“Proteome of the Occlusion Derived Virions (ODVs) of the granulovirus of *Spodoptera frugiperda* (SfGV)”  
**Masson T**, Fabre ML, Ferrelli ML, Pidre ML, Romanowski V  
“Improvement of the Baculovirus of *Anticarsia gemmatilis* as a Biological Control Agent by Incorporating Heterologous Proteins in the Occlusion Bodies”  
Fabre ML, **Masson T**, Romanowski V

## Academic Courses

- Computational tools for scientists 2019  
Institute of Liquids and Biological Systems, La Plata, Argentina
- Cryo-EM and X-ray Crystallography: on the Frontier of Structural Biology 2019  
Faculty of Exact and Natural Sciences, University of Buenos Aires, Argentina
- Computational Approaches to Study Intrinsically Disordered Proteins 2018  
National University of Quilmes, Argentina
- Comparative Analysis of Microbial Genomes: Pangenomics and Phyloinformatics 2018  
Faculty of Exact Sciences, National University of La Plata, Argentina
- Basic and Advanced Applications of Flow Cytometry 2017-2018  
Faculty of Exact Sciences, National University of La Plata, Argentina
- Training in the Handling of Databases for the Study of Biomedical Sciences 2017  
Faculty of Medical Sciences, National University of Rosario, Argentina
- Statistical Treatment of Life Sciences Data with Free Software R 2017  
Faculty of Pharmacy and Biochemistry, University of Buenos Aires, Argentina
- Peptide and Protein Mass Spectrometry 2017  
Multidisciplinary Institute of Cell Biology (IMBICE), La Plata, Argentina
- Molecular and Cellular Bases of Immunopathologies 2016  
Institute of Immunological and Physiopathological Studies (IIFP), La Plata, Argentina