



Sindy Licette Piñero

Biotechnologist



Personal Info

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Date of birth

1989-03-10

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Experience

2016-04 -
2018-07

Master's Degree in Molecular and Cell Biology

Functional Genomics & Bioinformatics Laboratory (LAGFB) / Oswaldo Cruz Institute (IOC) / Fiocruz - Rio de Janeiro (RJ) - Brazil

Research Experience in development of new **Biopharmaceuticals** products, through **Recombinant DNA** and **Bioinformatic** techniques (full-time)

2018-01 -
2018-07

Co-advisor

LAGFB / IOC / Fiocruz - RJ - Brazil

Co-advisor of an internship student in **Biotechnology** and **Bioinformatics** areas (part-time)

2017-01

Internship in Biology and Protein Engineering

Structural Biology and Protein Engineering Laboratory - Carlos Chagas Institute (CCI) - Parana (PR) - Brazil

Internship experience in a research laboratory in **Biology and Protein Engineering** areas with focus on **heterologous protein expression techniques** (full-time)

2013-09 -
2016-03

Internship in Biotechnology

LAGFB / IOC / Fiocruz - RJ- Brazil

Internship experience in a research laboratory in **Biotechnology and Bioinformatics** areas with focus on **heterologous protein expression techniques** (part-time)

2013-03 -
2013-09

Internship in Clinical Analysis

Silvestre Adventist Hospital - RJ - Brazil

Pigtail, Urinalysis, Parasitology, Hematology, Biochemistry, Bacteriology, Immunology and Hormones areas (full-time)



Education

2019-08 -
present

Technologist Degree in Big Data Technology and Analytical Intelligence

Pontifical Catholic University of Paraná - PUC - PR - Brazil

Link: <https://www.pucpr.br/>

2016-04 -
2018-07

Master's Degree in Molecular and Cellular Biology

LAGFB / IOC / Fiocruz - Rio de Janeiro - Brazil

Master Thesis Project: "Production, Kinetic and Molecular Characterization of Mycobacterial L-asparaginases, aiming its use in the Treatment of Acute Lymphoid Leukaemia"

Link: <https://pgbcm.ioc.fiocruz.br/>

2013-03 -
2016-03

Bachelor's Degree in Biological Sciences (Biotechnology)

Federal University of Rio de Janeiro (UFRJ) - Rio de Janeiro - Brazil



Summary

- Currently: Studying **Bachelor's Degree in Big Data Technology and Analytical Intelligence / Python** courses / **Bioinformatic** courses
- **Master's Degree in Molecular and Cell Biology** with solid experience in **Genetics, Biotechnology, Synthetic Biology and Bioinformatics**
- **Bachelor's Degree in Biological Sciences (Biotechnology)**
- **Technical Degree** in **Industrial Process (Chemistry)**
- **Technical Degree** in **Clinical Analysis**
- **Work Experience:** 1 year on **Clinical Analysis** and 5 years in **Research Laboratory**



Languages

Spanish - NATIVE LANGUAGE

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Proficient

Portuguese - CELPEBRAS certificate

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Proficient

English - TOEFL and IELTS certificates

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Advanced (B2/C1)

French - COURSE (2 years)

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Elementary

Senior Thesis Project: "Developed project: Evaluation of Transformation Capacity and Plasmid Stability of Environmental Mycobacteria"

Link: <http://www.xerem.ufrj.br/biotecnologia/>

2012-01 -
2012-12

Technical Degree in Clinical Analysis

Henry Dunant Educational Center - Rio de Janeiro - Brazil

Link: <http://www.henrydunant.com.br/>

2005-03 -
2007-12

Technical Degree in Industrial Process (Chemistry)

Technical School Albert Thomas - Buenos Aires - Argentina



Prize

2015-11

Best Oral Presentation: XXII Undergraduate Research Annual Meeting - Oswaldo Cruz Institute (IOC) / Fiocruz - Rio de Janeiro - Brazil



Presentations and Talks

2018-07

Master's Thesis Project Presentation: "Production, Kinetic and Molecular Characterization of Mycobacterial L-asparaginases, aiming its use in the Treatment of ALL" - IOC / Fiocruz - RJ - Brazil

2017-05

Master's Qualification: "Production, Kinetic and Molecular Characterization of Mycobacterial L-asparaginases, aiming its use in the Treatment of ALL" - IOC / Fiocruz - RJ - Brazil

2016-09

Poster: "Transformation Potential Evaluation and Plasmid Stability of Environmental Mycobacteria" - 62nd International Congress of Genetics - Genetic Brazilian Society (SBG) - Minas Gerais (MG) - Brazil

2016-03

Senior Thesis Project Presentation: "Transformation Potential Evaluation and Plasmid Stability of Environmental Mycobacteria" - UFRJ - RJ - Brazil

2015-12

Project Presentation: "Transformation Potential Evaluation and Plasmid Stability of Environmental Mycobacteria" - XXIII Annual Meeting of Scientific Initiation (RAIC) - IOC / Fiocruz - RJ - Brazil

2015-12

Project Presentation: "Transformation Potential Evaluation and Plasmid Stability of Environmental Mycobacteria" - XXXVII Giulio Massarani Journey of Scientific, Technological, Artistic and Cultural Initiation - UFRJ- RJ - Brazil

2015-10

Project Presentation: "Health garbage: How can we use organic waste to improve health through the cultivation of medicinal plants?" - UFRJ- RJ - Brazil

2014-09

Project Presentation: "Transformation Potential Evaluation and Plasmid Stability of Environmental Mycobacteria" - XXII RAIC - IOC / Fiocruz - RJ - Brazil

2014-08

Poster: "Transformation Potential Evaluation and Plasmid Stability of Environmental Mycobacteria" - 61st International Congress of Genetics (ICG) - SBG - MG - Brazil



Courses and Events

2019-07

Programming for Everybody (Getting Started with Python) - University of Michigan - USA

2019-06

Biology Meets Programming: Bioinformatics for Beginners - University of California San Diego - USA



Scholarships

Integral scholarship for Master's Degree (2016 - 2018) - IOC / Fiocruz - RJ - Brazil

Integral scholarship for an Internship during the Undergraduate Education (2014 - 2015) - IOC / Fiocruz - RJ - Brazil

Partial scholarship for Technical Degree (2012) - Henry Dunant - RJ - Brazil



Technology

Linux, Windows and Macintosh

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Advanced

MS Office

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Advanced

Python Programming Language

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Intermediate

MySQL

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Intermediate



Interests

Reading and doing regular physical activities



Skills

Leadership, learning, intra and interpersonal skills

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Solid knowledge in research projects writings and presentations

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In silico: Genomes assembly, 3D protein structure prediction, search and critical analysis of scientific articles, and Bioinformatic tools (PDB, NCBI, BRENDA, Artemis, KEGG, UniProt, Ensembl, Clustal Omega, MUSCLE, BLAST, T-COFFEE, MEGA, KEGG, STRING, Swiss-Model, I-TASSER, MHOLline, PyMol, MolProbity, PROCHECK, SAVES)

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- 2019-06 Finding Hidden Messages in DNA (Bioinformatics I) - University of California San Diego - USA
- 2017-11 ● Theoretical International Course - 40h - Advances in Mycobacterium Research and its Application - IOC / Fiocruz - RJ - Brazil
- 2017-11 ● Webinar - 3h - Fundamentals and Applications in Genome Edition through CRISPR / Cas9
- 2017-09 ● Theoretical Course - 3h - New Generation Sequencing (NGS) - Qiagen - IOC / Fiocruz - RJ - Brazil
- 2017-03 ● Theoretical Online Course - 75h - Intellectual Property - WIPO
- 2017-03 ● Theoretical Course - 3h - Bioethics and Patents in Biotechnology - Mackenzie University - RJ - Brazil
- 2017-02 ● Theoretical-Practical Course - 80h - Genome Assembly - National Laboratory of Scientific Computing (LNCC) - RJ - Brazil
- 2016-10 ● 1st Fio-BioSin Meeting Program (Fiocruz-Synthetic Biology) - 8h - Fiocruz - RJ - Brazil
- 2016-09 ● Participation - 62nd GIC - 31h - MG - Brazil
- 2016-09 ● II Workshop 8h - Writing a Scientific Paper - Fiocruz - RJ - Brazil
- 2016-07 ● III Workshop - 32h - Advanced Topics in Proteomics - IOC / Fiocruz - RJ - Brazil
- 2015-08 ● Technical Visit - 8h - Itaipava Brewery - RJ - Brazil
- 2015-07 ● Theoretical-Practical Course - 48h - Production of Biological Products through Animal Cell Cultures - UFRJ - RJ - Brazil
- 2015-06 ● Technical Visit - 3h - Sewage Treatment Station - RJ - Brazil
- 2015-02 ● Theoretical-Practical Course - 40h - Structural Bioinformatics - IOC / Fiocruz - RJ - Brazil
- 2014-08 ● Participation - 60th GIC - 31h - MG - Brazil
- 2014-08 ● Meeting - Microorganisms' genetics - 12h - 60th GIC - MG - Brazil
- 2014-08 ● Theoretical Course - 4h - RNA Interference Technique Principles - SBG - MG - Brazil
- 2014-02 ● Theoretical-Practical Course - 40h - Applied Molecular Methods for the Diagnosis of Infectious Diseases - IOC / Fiocruz - RJ - Brazil
- 2013-10 ● ABTCEL Congress - 24h - Stem-cells: From Quality Control to Novel Derivation procedures - Búzios - RJ - Brazil
- 2013-10 ● II Workshop - 40h - Advanced Topics in Proteomics - IOC / Fiocruz - RJ - Brazil
- 2013-09 ● Biotechnology Week - 40h - UFRJ - RJ - Brazil
- 2013-05 ● Symposium - 8h - 1st Expo-Tech - UFRJ - RJ - Brazil
- 2013-04 ● Theoretical Course - 40h - Proteins and protein-binding complex characterization - UFRJ - RJ - Brazil
- 2013-04 ● Theoretical Course - 40h - Proteomics - IOC / Fiocruz - RJ - Brazil
- 2013-04 ● Debate - 3h - Clinical Research: Ethical and Strategic Issues for Developing Countries - Fiocruz - RJ - Brazil
- 2013-03 ● Debate - 3h - Fine Chemistry and Biotechnology: Challenges and Opportunities - UFRJ - RJ - Brazil

Solid theoretical knowledge: RT-PCR, mass spectrometry, protein crystallization, gene knockout and knock-in, RNA interference, NGS platforms and Intellectual Property (Brazilian legal system)



In vitro: Expertise in bacterial cell culture techniques, plasmid and genomic bacterial DNA extraction, PCR, Sanger sequencing, bacterial cloning, recombinant protein expression, SDS-PAGE, Western Blotting, protein purification (chromatography techniques) and enzymatic assays



Remunerated Jobs

Spanish Teacher / Languages Trainer Organization - RJ - Brazil / **2012-2014 (20h/w)**

Caregiver of elderly and children / Freelance - Bs.As. - Argentina / **2011 (3d/w)**

Biology, Mathematics and Geography Teacher for undergraduate and high school students / Freelance - Bs.As. - Argentina / **2009-2011 (12h/w)**

Music Teacher / Freelance - Bs.As. - Argentina / **2003-2004 (4h/w)**

References

Dr. **Wim Maurits Sylvain Degrave** (Senior Researcher and Advisor of Master and Doctorate projects at Oswaldo Cruz Institute - Fiocruz - RJ - Brazil)
- <http://buscatextual.cnpq.br/buscatextual/visualizacv.do?id=K4788262Y3>

Dr. Prof. **Leila Mendonça-Lima** (Coordinator of the Molecular and Cellular Biology Program and Advisor of Master and Doctorate projects at Oswaldo Cruz Institute - Fiocruz - RJ - Brazil)
- <http://buscatextual.cnpq.br/buscatextual/visualizacv.do?id=K4781802U3>

● **Clinical Analysis Congress / SulAmérica Center - 32h - RJ - Brazil**



Additional Activities

- **Voluntary work as children leadership / Non-profit organization - RJ - Brazil / 2016-2019 (7h/w)**
- **Voluntary Work: Teacher in Biological Tissues Construction / Tomorrow Museum - RJ - Brazil / May-Oct 2017 (6h/w)**
- **Skills in Music: Piano, Tubular Organ and member of 3 different choirs / Gilardo Gilardi Music Conservatory and Non-profit organizations / Bs.As. - Argentina / 2005-2014 (24h/w)**
- **Experience Abroad: Brazil (7 years) - Canada (1 month)**

Dr. Prof. **Ana Carolina Guimarães**
(Coordinator of the Bioinformatics Program and Advisor of Master and Doctorate projects at Oswaldo Cruz Institute - Fiocruz - RJ - Brazil)
- <http://buscatextual.cnpq.br/buscatextual/visualizacv.do?id=K4708602D0>

Dr. **Marcos Dornelas Ribeiro** CRF-RJ 5701 (Pharmacist Biochemist and Manager of the Clinical Analysis Laboratory at Silvestre Adventist Hospital)
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