

MARIANA CALLERO

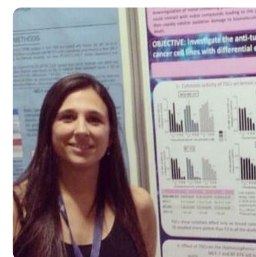
BIOTECHNOLOGIST - BIOCHEMICAL PhD - DATA SCIENTIST

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📍 CABA, Argentina



DATA SCIENCE TECH STACK

Python

Programming knowledge. Experience in the use of data management libraries. Experience in structuring code through the use of classes and pipelines. Experience with Numpy, Pandas, Scipy, NLTK (Text Mining)

SQL advanced

Ability to select data, join with other tables, add, delete, cross information and modify tables.

Machine and Deep Learning

Experience in the use of algorithms such as clustering, recommendation, Forecasting, Neural Networks applied to business problems. Experience in SKlearn, StatsModels, TensorFlow, Keras, Imblearn, LIME

Deployment of Machine Learning Models

with Flask and Pickle

Data Visualization

High management of Power BI. Experience in using visualization Python libraries such as Matplotlib, Seaborn, Bokeh, IPython

Experience in working with Docker

And GitHub

EXPERIENCE

CONICET Adjunct Researcher

Instituto de Oncología Ángel H. Roffo

📅 2018 - Ongoing 📍 CABA, Argentina

- Project development and management: "An N4-aryl substituted thiosemicarbazone action on triple negative breast cancer"
- International Publications: "Anti-invasive and anti-metastatic action of an N4-aryl substituted thiosemicarbazone on advanced triple negative breast cancer". Heliyon, 2020 Oct, 6;6(10):e05161. doi: 10.1016/j.heliyon.2020.e0516
- Presentations in national and international congresses: 4
- Research Collaboration projects: "Characterization of tumoral cells intrinsic factors and their contribution to micro environment during in situ - invasive transition in breast tumors" PICT Grants. "Design, synthesis and evaluation platform of nitrogen heterocycles compounds with anti-HIV and anti-tumoral activities". PICT Grants.
- PhD Student Supervisor
- Biology Professor and Biochemical Assistant Teacher

CONICET Associate Researcher

Instituto de Oncología Ángel H. Roffo

📅 2013 - 2018 📍 CABA, Argentina

- Project development and management: "N4-aryl substituted thiosemicarbazones derived from 1-indanones as potential anti-tumor agents for breast cancer treatment". Fundación Florencio Fiorini Grant
- International Publication of the articles: "N4-aryl substituted thiosemicarbazones derived from 1-indanones as potential anti-tumor agents for breast cancer treatment". J Cell Physiol. 2018 Jun;233(6):4677-4687. doi: 10.1002/jcp.26240. "In Vitro Antitumor Effects of AHR Ligands Aminoflavone (AFP 464) and Benzothiazole (5F 203) in Human Renal Carcinoma Cells." J Cell Biochem. 2017 Dec;118(12):4526-4535. doi: 10.1002/jcb.26114. "The immune system as a new possible cell target for AFP 464 in a spontaneous mammary cancer mouse model". J Cell Biochem. 118(9):2841-2849, 2017. doi: 10.1002/jcb.25934. "Ahr ligand Aminoflavone inhibits alpha-6-integrin expression and breast cancer sphere-initiating capacity". Cancer Lett. 28;376(1):53-61, 2016. doi 10.1016/j.canlet.2016.03.025.
- Presentations in national and international congresses: 13
- Research Collaboration projects: "Aminoflavon effects on tumoral stem cells and on immune system in a murine mammary tumor estrogen-dependent." PIP Conicet Grant.
- College Student Supervisor
- Biochemical Professor

EXPERIENCE

CONICET Postdoctoral Researcher

Instituto de Oncología Ángel H. Roffo

📅 2013 - 2014 📍 Phoenix, AZ

- Project: "Characterization of a new molecular target for breast and ovarian cancer : Aryl Hydrocarbons Receptor (AhR) activation by 2-(4-aminophenyl) benzothiazol"
- International Publications: "Biomarkers of sensitivity to potent and selective antitumor 2-(4-amino-3-methylphenyl)-5-fluorobenzothiazole (5F203) in ovarian cancer." J Cell Biochem. 114(10):2392-404, 2013. doi: 10.1002/jcb.24589. "Aryl Hydrocarbon Receptor Activation by Aminoflavone: New molecular target for renal cancer treatment". International Journal of Oncology, 41: 125-134, 2012. doi: 10.3892/ijo.2012.1427. "The Role of Aryl hydrocarbon receptor and Cross talk with Estrogen Receptor in Response of Breast Cancer Cells to Novel Antitumor Agents Benzothiazoles and Aminoflavone". International Journal of Breast Cancer. 2011, Article ID 923250. doi: 10.4061/2011/923250.
- Presentations in national and international congress: 9
- Scientific Awards: 3
- College Student Co-supervisor

Junior Researcher

Instituto de Química - Universidade de São Paulo

📅 2003 - 2005 📍 São Paulo, Brasil

Conselho Nacional de Desenvolvimento Científico e Tecnológico Fellowship

- Projects: "Cloning and expression of human blood coagulation factors in eukariotics cells: Factor VIII and Von Willebrand Factor". "Cell therapy as a therapeutic alternative in Diabetes Mellitus"
- International Publications: "Exogenous leptin restores in vitro T cell proliferation and cytokine synthesis in patients with Common Variable Immunodeficiency Syndrome." Clinical Immunology 114, 147- 153, 2005. doi: 10.1016/j.clim.2004.09.002.
- Presentations in national and international congress: 1

EDUCATION

Data Science

Digital House

📅 11/2021

- GitHub link: <https://github.com/mcallero/Trabajo-Final-Digital-House>

Biochemical PhD

Facultad de Ciencias Exactas y Naturales - Universidad de Buenos Aires

📅 04/2006 - 11/2010

- Thesis Project: "PTP1B in Erythropoietin signaling pathway"
- International Publications: "Calcium as a mediator between Erythropoietin and Protein Tyrosine Phosphatase 1B." Arch Biochem Biophys. 15;505(2):242-9, 2011. doi: 10.1016/j.abb.2010.10.004. "Differential antiapoptotic effect of erythropoietin on undifferentiated and retinoic acid-differentiated SH-SY5Y cells.. J Cell Biochem. 2010;110(1):151-61. doi: 10.1002/jcb.22521. " c-FLIP is involved in erythropoietin-mediated protection of erythroid-differentiated cells from TNF-alpha-induced apoptosis." Cell Biol Int. 2010 4;34(6):621-30. doi: 10.1042/CBI20090085. "Modulation of Protein Tyrosine Phosphatase 1B by Erythropoietin in UT-7 Cell line." Cellular Physiology and Biochemistry 20, 319-328, 2007. doi: 10.1159/000107518
- Presentations in national and international congress: 8

Biotechnologist

Facultad De Ciencias Bioquímicas Y Farmacéuticas - Universidad Nacional de Rosario

📅 03/1995 - 11/2001

- Thesis project: Microsatellites study in Hereditary nonpolyposis colon cancer. Hospital Italiano Garibaldi, Rosario
- Presentations in national and international congress: 5

LANGUAGES

Spanish

Native



English

Proficient



Portugue

Advanced

