





Antonella Milagros RAFFO ROMERO

Date of birth 04/11/1988
Peruvian

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Summary

Degree in Biotechnological Engineering, Master in Cellular Bachelor of Biotechnological Engineering in Peru. Master I in Cell Biology and II in Proteomics in Lille - France. Having carried out different projects gave me a wide range of research methodologies. With solid knowledge in techniques of cellular and molecular biology, as well as in proteomics techniques. Currently working as a Postdoctoral fellow on the 3DCellOmics platform in the development of organoid culture and bioprinting.

Education

- 2015-2019 • PhD Student - PRISM laboratory
Doctoral School Biology and health • Lille, France
- 2014-2015 • Master 2 in Genomics and Proteomics, Proteomics specialty
University Lille 1 - Sciences and Technology • Lille, France
- 2013-2014 • Master 1 in Biology and Biotechnology, Cell Biology specialty.
University Lille 1 - Sciences and Technology • Lille, France
- 2012 • Getting Professional degree as Engineer biotechnology
University Catholic of Saint Mary Catholic • Arequipa, Peru
- 2011-2012 • Preparation and submission of thesis for the professional title as Engineer biotechnology
University Catholic of Saint Mary Catholic • Arequipa, Peru
"Evaluation of gibberellic acid, indoleacetic acid, kinetin as bioestimulantes in bioles produced by anaerobic digestion of plant residues artichoke, broccoli and asparagus with ruminal liquor llama (Lama glama) and cattle (Bos taurus primigenius)."
- 2010-2006 • Biotechnological Engineering - Faculty of Pharmaceutical Sciences,
Biochemical and Biotechnology. University Catholic of Saint Mary Catholic • Arequipa, Peru



Professional Experience

PRISM LABORATORY - INSERM UNIT U1192 (University Lille)



- Development of techniques related to organoid culture and cell bioimpression on the 3DCellOmics platform.**
January to July 2019 - Engineering study. (6 months)
- Development of techniques related to organoid culture and cell bioimpression on the 3DCellOmics platform.**
September 2019 to August 2020 - Postdoctoral (1 year)

Internship

- Phenotype markers and microglial cells in relation to neuronal repair.**
February-July 2015 Research Practices • Master II Proteomics
- Study of signaling pathways associated with TLRs (Toll-like receptor) in macrophages and microglial cells.**
January-June 2014 Free Training

INSTITUT PASTEUR OF LILLE

INSERM Unit U 1011 Nuclear Receptors, Lipoproteins and Atherosclerosis.



- **Study of the expression of pentraxin 3 (PTX3) in human primary macrophages and regulation by LXR receptor.**

January 2013 Practice of Research Master I Cell Biology

- **Control molecular de las funciones de monocitos/macrófagos en los síndromes cardio-metabólicos.**

January-March 2011 Free Training

Independent study

- **Bibliographic research on quinoa plant for the manufacture of a project private for the generation of value added in the production of Quinoa.**

June-July 2010 • Bibliographic Research - Private Entity

Speeches and Oral Presentations

- **ITMO Health Technologies: Scientific meeting of WG Organoids, ITMO TS and BCDE and GDR "Reparer l'humain" 2 December 2019**

Development of three-dimensional cell culture of canine breast tumor.

- **EURON PhD days, 25-26 Octobre 2017, Kerkrade, Pays-Bas.**

Study of the TGF- β signaling pathway in the crosstalk between microglial cells and neurons in leech CNS. (Best Presentation Award)

- **Young Club of the French Society of Electrophoresis and Proteomic Analysis 2017 (SFEAP).**

Protein signatures of microglia in the time course of their migration in order to define the dynamic study of the TGF- β response in *Hirudo medicinalis*.

- **SINAPSIS (First Meeting of Peruvian Scientists in Europe) Paris 2016.**

Markers and phenotype of microglial cells in relation to neuronal repair.

Poster Presentations

- **SINAPSIS (Meeting of Peruvian Scientists in Europe) Barcelona 2018.**

The early phase of microglial activation in leech CNS repair involves a TGF- β -dependent signaling.

- **21st Annual Meeting of the LARC-Neuroscience – Université de Lille 2017.**

Study of the TGF- β signaling pathway in the crosstalk between microglial cells and neurons in leech CNS.

- **SINAPSIS (Meeting of Peruvian Scientists in Europe) Berlin 2017.**

The early phase of microglial activation in leech CNS repair involves a TGF- β -dependent signaling.

- **EURON PhD meeting - Université de Lille 1 2016.**

The early phase of microglial activation in leech CNS repair involves a TGF- β -dependent signaling.

- **6e Workshop du Club Français de Neuroimmunologie - Paris 2015.**

Microglial phenotypes and markers related to neuronal repair in *Hirudo medicinalis*.

- **EURON PhD meeting - Maastricht University 2015.**

Microglial phenotypes and markers related to neuronal repair in *Hirudo medicinalis*.

Publications

J Extracell Vesicles. - 2020 Feb Location of neonatal microglia drives small extracellular vesicles content and biological functions in vitro. Murgoci AN, Duhamel M, **Raffo-Romero A**, Mallah K, Aboulouard S, Lefebvre C, Kobeissy F, Fournier I, Zilkova M, Maderova D, Cizek M, Cizkova D, Salz M.

Jove – 2020 Feb Characterization of Immune Cell-derived Extracellular Vesicles and Studying Functional Impact on Cell Environment Quentin Lemaire, Marie Duhamel, **Antonella Raffo-Romero**, Michel Salz M, Christophe Lefebvre.

Cell. - 2019 Dec Cross-Species Single-Cell Analysis Reveals Divergence of the Primate Microglia Program. Geirsdottir L, David E, Keren-Shaul H, Weiner A, Bohlen SC, Neuber J, Balic A, Giladi A, Sheban F, Dutertre CA, Pfeifle C, Peri F, **Raffo-Romero A**, Vizioli J, Matiassek K, Scheiwe C, Meckel S, Mätz-Rensing K, van der Meer F, Thormodsson FR, Stadelmann C, Zilkha N, Kimchi T, Ginhoux F, Ulitsky I, Erny D, Amit I, Prinz M.

J Nanobiotechnology. - 2019 Dec Isolation of microglia-derived extracellular vesicles: towards miRNA signatures and neuroprotection. Lemaire Q, **Raffo-Romero A**, Arab T, Van Camp C, Drago F, Forte S, Gimeno JP, Begard S, Colin M, Vizioli J, Sautière PE, Salz M, Lefebvre C.

Cells. - 2019 Nov PC1/3 KD Macrophages Exhibit Resistance to the Inhibitory Effect of IL-10 and a Higher TLR4 Activation Rate, Leading to an Anti-Tumoral Phenotype. Rodet F, Capuz A, Ozcan BA, Le Beillan R, **Raffo-Romero A**, Kobeissy F, Duhamel M, Salz M.

Anal Chem. 2019 Sep Matrix-Assisted Laser Desorption/Ionization-Mass Spectrometry Imaging of Lipids in Experimental Model of Traumatic Brain Injury Detecting Acylcarnitines as Injury Related Markers. Mallah K, Quanico J, **Raffo-Romero A**, Cardon T, Aboulouard S, Devos D, Kobeissy F, Zibara K, Salz M, Fournier I.

Mol Cell Proteomics. - 2019 Jun Mapping Spatiotemporal Microproteomics Landscape in Experimental Model of Traumatic Brain Injury Unveils a link to Parkinson's Disease. Mallah K, Quanico J, **Raffo-Romero A**, Cardon T, Aboulouard S, Devos D, Kobeissy F, Zibara K, Salz M, Fournier I.

Sci Rep. - 2019 May ALK4/5-dependent TGF- β signaling contributes to the crosstalk between neurons and microglia following axonal lesion. **Raffo-Romero A**, Arab T, Van Camp C, Lemaire Q, Wisztorski M, Franck J, Aboulouard S, Le Marrec-Croq F, Sautiere PE, Vizioli J, Salz M, Lefebvre C.

J Extracell Vesicles. - 2019 Apr Proteomic characterisation of leech microglia extracellular vesicles (EVs): comparison between differential ultracentrifugation and Optiprep™ density gradient isolation. Arab T, **Raffo-Romero A**, Van Camp C, Lemaire Q, Le Marrec-Croq F, Drago F, Aboulouard S, Slomianny C, Lacoste AS, Guigon I, Touzet H, Salz M, Fournier I, Lefebvre C, Vizioli J, Sautière PE.

Int J Mol Sci. - 2018 Dec Medicinal Leech CNS as a Model for Exosome Studies in the Crosstalk between Microglia and Neurons. **Raffo-Romero A**, Arab T, Al-Amri IS, Le Marrec-Croq F, Van Camp C, Lemaire Q, Salz M, Vizioli J, Sautiere PE, Lefebvre C.

Sci Rep. 2018 Oct 3D MALDI mass spectrometry imaging reveals specific localization of long-chain acylcarnitines within a 10-day time window of spinal cord injury. Quanico J, Hauberg-Lotte L, Devaux S, Laouby Z, Meriaux C, **Raffo-Romero A**, Rose M, Westerheide L, Vehmeyer J, Rodet F, Maass P, Cizkova D, Zilka N, Cubinkova V, Fournier I, Salz M.

J Biotechnol. - 2018 Sep 20 Deciphering molecular consequences of the proprotein convertase 1/3 inhibition in macrophages for application in anti-tumour immunotherapy. Rodet F, Capuz A, Hara T, van Meel R, Duhamel M, Rose M, **Raffo-Romero A**, Fournier I, Salz M.

Mol Cell Proteomics. - 2018 Feb Spatially-Resolved Top-down Proteomics Bridged to MALDI MS Imaging Reveals the Molecular Physiome of Brain Regions. Delcourt V, Franck J, Quanico J, Gimeno JP, Wisztorski M, **Raffo-Romero A**, Kobeissy F, Roucou X, Salz M, Fournier I.

Language

French
Bilingual, written and oral B2 level

Spanish
Native language
Professor eventual

English
Analysis papers
Oral basic level