



Agalic Rodriguez-Duboc

PHD IN DEVELOPMENTAL NEUROBIOLOGY

Trained as a general physician and passionate about research, I am currently finalizing my PhD dissertation in the field of cellular and molecular neurosciences. My project is focused on cerebellar development and apnea of prematurity.

✉ agalic.rd@gmail.com
🏠 76000 Rouen, France
📅 Date of birth 10/05/1990
🇫🇷 French

Languages

French
Native language

Spanish
Native language

English
Native proficiency

Norwegian
Expression A2/Comprehension B1

Assets

Determination

Creativity

Curiosity

Autonomy

Organisation

Professional interests

Molecular biology and signaling pathways

Neurosciences, neurology, psychiatry

Preventive medicine and public health

Personal interests

Reading and literature

Painting and drawing

Knitting and crochet

Nature and sustainability

Education

From September 2019 to May 2023	PhD in Molecular and Cellular aspects of Biology Rouen University Mont-Saint-Aignan, France Specialty in Neurosciences
From October 2019 to November 2019	Certification in Animal Experimentation Paris Descartes Paris 05 Panthéon, France
From September 2018 to June 2019	Master's in Research: Neurosciences (MSc) Rouen University Mont-Saint-Aignan, France Molecular, Cellular, and Integrated Neurosciences - Cum Laude
October 2017	USMLE (United States Medical Licensing Examination) Step 1 National Board of Medical Examiners Philadelphia, PA, USA
From September 2011 to June 2017	Medical Doctor (MD) PUCMM University Santiago, Dominican Republic Magna Cum Laude

Research Experience

From September 2019 to May 2023	Doctoral Candidate INSERM U1245 Rouen, France <ul style="list-style-type: none">Topic: "Cellular, molecular and vascular alterations induced by apnea of prematurity in the murine cerebellum."Advisor: Dr. Delphine Burel.
From January 2019 to June 2019	Master's Research Internship Inserm U1239 DC2N Mont-Saint-Aignan, France <ul style="list-style-type: none">Topic: "Effects of perinatal hypoxia on the expression of genes involved in oxidative stress."Advisor: Dr. Delphine Burel.
From August 2015 to April 2017	Medical Dissertation Departamento de Investigación, Université PUCMM Santiago de los Caballeros, République Dominicaine <ul style="list-style-type: none">Topic: "Psychological factors associated with nicotine addiction in college students."Advisor: Dr. Zahíra Quiñones de Monegro.
From March 2014 to December 2014	Research Assistant Experience Laboratory of Nanosciences, PUCMM University Santiago de los Caballeros, République Dominicaine <ul style="list-style-type: none">Topic: "Hypercaloric effect of biofunctionalized carbon nanotubes as a photothermal agent on Staphylococcus aureus."Advisor: Dr. Oliver Pfaff.

Publications

- Leroux, S., **Rodriguez-Duboc, A.**, Arabo, A. *et al.* Intermittent hypoxia in a mouse model of apnea of prematurity leads to a retardation of cerebellar development and long-term functional deficits. *Cell Biosci* 12, 148 (2022). <https://doi.org/10.1186/s13578-022-00869-5>
- Marc-Aurèle Riviére, & **Agalic Rodriguez-Duboc.** (2022). ma-riviere/LT-AoP-22: final release (v2.0). Zenodo. <https://doi.org/10.5281/zenodo.6480947>

Posters

LARC Neurosciences 2019 Effects of perinatal hypoxia on oxidative stress-related gene expression in the murine cerebellum.

JED EDNBISE 2022 Apnea of Prematurity induces molecular, cellular, and vascular alterations in the murine cerebellum: focusing on angiogenesis.

Talks

JED EDNBISE 2021 Therapeutic potential of neurotrophic factors on cellular and molecular alterations induced by Apnea of Prematurity in the murine cerebellum.

ISTW Disabilities and Integration 2022 Cellular and molecular alterations induced by Apnea of Prematurity in the murine cerebellum.

Computer skills

Photoshop

Cytoscape

IMARIS

R

PRISM

ImageJ/Fiji

SPSS

Python

Teaching and Supervision

From October 2014 to November 2015

Teaching Assistant

PUCMM University Santiago, Dominican Republic

Anatomy, Embryology, and Histology.

From September 2019 to March 2023

Supervision of Students and Interns

Rouen University Mont-Saint-Aignan, France

Supervision of a MSc intern during 3-month

Training of several students rotating through the laboratory

Medical Experience

From May 2016 to August 2016

Internal Medicine Internship

Saint Barnabas Hospital New York, NY, États-Unis

Neurology; Rhumatology; Pneumology; Nephrology

From August 2016 to March 2017

OB/GYN and Psychiatry Internships

Hospital Regional Universitario José María Cabral y Báez Santiago de los Caballeros, République Dominicaine

Peripartum; Partum; Ambulatory / Consults

From October 2016 to February 2017

Surgery and Pediatrics Internships

Hospital Metropolitano de Santiago République Dominicaine

Surgery; Pathology; Oncology; Pediatric and Neonatal ICU

From March 2017 to May 2017

Social and Family Medicine Internship

Centro de Salud Integral Bella Vista République Dominicaine

HIV Clinic; Epidemiology; ER

Practical Skills

Laboratory and Expérimentation

Preparation and mounting of anatomo-pathological samples

Bacterial culture (agars, selective media, antibiogram)

Preparation and analysis of blood smears

Molecular biology (RNA extraction, reverse transcription...)

Laser capture microdissection

Quantitative PCR (Techniques, Robot, Analysis...)

Conventional microscopy

Immunohistochemistry

Transparisation

Research and Communication

Research methodology and statistical analysis

Scientific presentation and communication

Theoretical and practical training

Writing scientific reports

Grant application writing

Translation and simultaneous interpretation

Surgery and clinical skills

Minor surgery

Pre and post-operative follow-up

Complete physical examination

Differential diagnosis

Pharmacological prescription