Patricia Borges de Souza

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EXPERIENCE

- **Section of Endocrinology & Internal Medicine, Medical Sciences Department, University of Ferrara**
  Ph.D. Student and prior Research Fellow
  Co-designer of experimental activity and autonomous execution of *wet lab* tasks such as cell culture preparation, functional and morphological *in vitro* assays, Sanger and Next Generation Sequencing, as well as data analysis.
  Jan 2018 -

- **Institute of Metabolism & Systems Research**
  Radioiodide uptake assay trainee − Birmingham, UK
  Mar 2020 - Sep 2020

- **University of Ferrara**
  Tutor for Biology and Biotechnology students
  Oct 2019 - Sep 2020

- **Maimonides Biomedical Research Institute of Cordoba (IMIBIC)**
  Internship − Cordoba, Spain
  Dec 2015 - Aug 2016

- **Banco Espírito Santo (BES) - Tranquilidade**
  Assignments from Backoffice Operator to Team Leader - Lisbon, Portugal
  Oct 2006 - Dec 2010

EDUCATION

- **Ph.D. Biomedical Sciences & Biotechnology**
  University of Ferrara, Italy
  Nov 2018 -

- **MSc Biomolecular & Evolutionary Sciences**
  University of Ferrara, Italy
  Sep 2015 - Sep 2017

- **MSc Biotechnology**
  University of Cordoba, Spain
  Oct 2015 - Aug 2016

PROJECTS

- **PRIN 2017** From bed to benchside: untangling the molecular mechanisms of disease progression in neuroendocrine neoplasms - FAITH IN DREAMS.

SKILLS

Molecular Biology & Biotechnology
Small animal handling (mice and rats), protein extraction and quantification, SDS-PAGE, Western Blot, ELISA, protein interaction (co-IP, NanoBit), cloning, plasmid preparation, ligation, transformation, DNA extraction, RNA extraction, RT-PCR, PCR, mutagenesis, DNA sequencing (Sanger and NGS), *in vitro* diagnostic (IVD) assays.

Cell culture
Functional assays, radioiodide uptake, migration, invasion, transfection, 3D organoid culture, thyroid, pituitary and lung primary cell culture.

Bioinformatics, Data Analysis & Other
NGS tools, R, GraphPad, PLINK, SAP, Office, Ubuntu, ImageJ, LaTeX, primer design, knowledge of main statistical analysis techniques, use of automated robots, liquid handlers and plate readers.

Soft Skills
Ability to adapt to different working environments, prone to both autonomous and team work, high problem solving skills and troubleshooting.

LANGUAGE

Portuguese (native)
English (C1 - proficient)
Italian (C1 - proficient)
Spanish (B2 - basic)

CERTIFICATES

Qualification as Professional Biologist

Training course: **NGS and genetic variants**, Scuola Medica Ospedaliera (Dec 2018).

Training course: **NGS data analysis and diagnostic applications**, University of Pavia (Jun 2019).

Training course: **Use of animals for scientific and educational purposes - level 1**, University of Bologna (Feb 2020).

PEER-REVIEW ACTIVITY

Journal of Endocrinological Investigation

Endocrine

Neuroendocrinology.