europass Curriculum vitae

PERSONAL INFORMATION

# Alba Clara Fernandez Rilo

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POSITION

PhD

WORK EXPERIENCE

01/01/2016–Present

## Assistant Research Scientist

Maria Dolores Mayan Phd, Translational Research in Cell Communication and Signaling (CellCOM)
INIBIC
Jubias de Arriba,86, 15006 A Coruña (Spain)

Research project using mammalian cell culture systems and molecular, cellular and electrophysiological methods to investigate the functions of connexins, pannexins and the mechanism of cellular communication in skin, articular cartilage and other human tissues with the aim to understand the physiopathology of disease.

Business or sector Biomedical research institute

01/03/2013–01/07/2014

## Master's Thesis

M.Cruz Rodriguez.Oroz M.D.,Phd; Adolfo López de Munain M.D., PhD, Neuroscience department
Biodonostia Institute
Doctor Berigistain s/n, 20014 Donostia- San Sebastian (Spain)
http://www.biodonostia.org

Research project about the anatomical cortical pattern in patients with Parkinson's disease in relationship with its motor and cognitive state. Protein extraction and quantification of postmortem human brain cortex to detect and quantify via immunostaining (Western Blot) proteins as markers of cognitive alterations. I also carried several surgical procedures in animal models to induce a unilateral DA lesion to obtain a valid model of Parkinsonism to test in different receptors (D4,D3 and D2) several drugs.

Business or sector Biomedical research institute

20/06/2011–27/02/2012

## Internship in Neurodegenerative disease department

Rosario S.Pernaute M.D.,Phd, Neurodegenerative Diseases (Stem Cells and Neural repair laboratory) Inbiomed
Mikeleti 81, 20009 Donostia-San Sebastian (Spain)
http://www.inbiomed.org

Cultivating different types of cells for molecular characterization and gene silencing experiments. Characterization of several cell types (fibroblast, embryonic stem cells, iPCs and neurons) from patients with Parkinson's and Alzheimer´s disease carrying several mutations as the G20 an R14 mutation in the LRRK2 gene via molecular and cellular techniques, protein content and gene expression.

Business or sector Basic research of stem cell biology

20/06/2010–01/10/2010

## Internship in Biotechnology company

Mr. Carles Callol Biobide S.L
Mikeleti 58, 2009 Donostia- San Sebastian (Spain)
http://www.biobide.es

Pharmacological test using zebrafish as an animal model. Carciogenesis, angiogenesis and hepatomegalic assays. Behaviour analysis and study the development of the embryo, morpholinos

microinjection. Pigmentation inhibition and lipid assays in treated embryos with plasmids.
Business or sector Biotech company integrating zebrafish as animal model to minimize risk in the drugs discovery process

## EDUCATION AND TRAINING

20/09/2012–30/06/2014 **Master in Neurosciences** 8.96/10
University of Basque Country (UPV/EHU), Bilbo (Spain)

20/09/2005–02/02/2012 **B.Sc. in Biology** 6.9/10
University of Salamanca (USAL), Salamanca (Spain)

01/04/2012–30/04/2012 **Category B: Education and training of persons carrying out animal experiments**
Biodonostia Institute. Animalaria (Accredited course SECAL, FELASA), Donostia-San Sebastian (Spain)

02/2015–06/2015 **Living with dementia**
Coursera(Johns Hopkins, School of Nursing), Online

07/2013–08/2013 **Advances in knowledge in Parkinson's Disease**
University of Basque Country (Spain)

04/2013–04/2013 **Understanding Parkinson's disease: cell vulnerability and disease progression**
University of Navarra, Pamplona (Spain)

02/2013–03/2013 **Course of Clinical Genetics**
Biodonostia Institute, San Sebastian-Donostia (Spain)

02/2013–04/2013 **Writing in Sciences**
Coursera (Stanford University), Online

02/2009 **From Assisted Reproduction to Stem Cells**
University of Salamanca (USAL), Salamanca (Spain)

11/2007 **The brain and its ghost: biological, psychological and medical bases of neurodegenerative diseases**
University of Salamanca (USAL), Salamanca (Spain)

## PERSONAL SKILLS

Mother tongue(s) Spanish, Galician

| Other language(s) | UNDERSTANDING | SPEAKING | WRITING |
|---|---|---|---|

| | Listening | Reading | Spoken interaction | Spoken production | |
|---|---|---|---|---|---|
| English | C2 | C1 | C1 | C1 | C1 |
| | Certificate in Advanced English (CAE) C1 | | | | |
| French | A2 | A2 | A1 | A1 | A2 |
| Italian | A2 | A1 | A1 | A1 | A1 |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

**Communication skills**

I have experience of giving presentations to large audiences: seminars, lab meetings and posters.

I am able to live and interact with people from different nations and cultures because of my experiences abroad.

**Organisational / managerial skills**

I am able to organize my work autonomously, defining priorities, assuming responsibility and managing my time optimally.

I am able to work very well as part of a team and I always available to collaborate if I can help my colleagues.

**Job-related skills**

Techniques of Molecular and Cell Biology

Cell cultures: Fibroblast, Condrocytes, Melanocytes, Embryonic Stem Cells, iPCs and Neurons

Extraction and quantification of Proteins, DNA, RNA,

Electrophoresis, Western Blot, ELISA, Immunoprecipitation

PCR, rtPCR, seq

Model animals: mouse, rat and zebrafish

Electrophysiology in rat and mouse

Stereotaxic surgery in rat and mouse

Histology techniques: cryostat, microtome, staining, immunochemistry, immunofluorescence on tissues and cells

Microscopy: confocal, fluorescence and optical

Plasmid constructions, transformation and cloning in bacteria

Transfection

**Digital competence**

| SELF-ASSESSMENT | | | | |
|---|---|---|---|---|
| Information processing | Communication | Content creation | Safety | Problem solving |
| Proficient user | Independent user | Independent user | Basic user | Proficient user |

Digital competences - Self-assessment grid

Office applications: Microsoft Office, iWork

Statistics and data analysis: SPSS, SigmaPlot, Prism

Software of image microscope analysis: Photoshop, Image J,Image Studio, Graphpad, Adove Illustrator

Operating systems: Mac, Windows

**Driving licence** B

**ADDITIONAL INFORMATION**

I spent fourteen months working as a childminder in the United Kingdom in order to improve my English in a practical way. Through this experience I gained flexibility, patience, maturity, and developed my ability to organise others. I also learned how to react to unexpected situations and had the opportunity to meet people from a variety of cultural and religious backgrounds. The aforementioned skills have been invaluable in my current role as an Assistant Research Scientist and I am now focused on my scientific career to find a PhD student position.