

# Carmen Suay Corredera, B.Sc.

## CURRICULUM VITAE

### Personal data

- D.N.I.: 48152649 – X
- **Date and place of birth:** 14-02-1993, Cuenca (Spain)
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### Education

- Coursing **M. Sc, In Biochemistry, Molecular Biology and Biomedicine** at Complutense University, Madrid.
- **B. Sc, in Biochemistry and Biomedical Sciences** by Valencia University (**September 2011 – July 2015**) with an average mark of 8.68.
  - Ranked **fifth** in B. Sc Biochemistry and Biomedical Sciences 2011-2015 promotion at University of Valencia, composed by 66 students and with an average mark of 7.63.

### Research experience

- CICERONE student at *Single-Molecule Mechanobiochemistry* group, under the supervision of Dr. Jorge Alegre Cebollada (**July-August 2014 and 2015**)

**Single-Molecule Mechanobiochemistry group research interest:** determination of the biochemical mechanisms that regulate cardiac tissue stiffness. For this purpose, post-translational modifications that may affect mechanical properties of cardiac proteins like titin, and therefore, heart elasticity, are studied.

- Internship at *Developmental Genetics and Biomedical Models* group in Genetics Department (Valencia University), under the supervision of Dr. Nuria Paricio Ortiz (**February 2015 – May 2015**)

**Developed project during internship:** Characterization of functional interaction between *cbt*, a gene that plays a role in *Drosophila* dorsal closure, and *Pi3K92E*, a component from insulin/IGF signaling pathway.

- Collaboration student at *Developmental Genetics and Biomedical Models* group in Genetics Department (Valencia University), under the supervision of Dr. Nuria Paricio Ortiz (**June 2012 – July 2015**).

**Research Project supported by collaboration:** identification of genes whose loss of function by oxidation of gene product is associated with the neurodegeneration process in a

*Drosophila melanogaster* Parkinson model disease. Gene validation as biomarkers for the early detection and progression of Parkinson's disease and neurodegeneration associated with oxidative stress.

## Competitive fellowships

- Beneficiary of **Master Fellowship Award** from CNIC, Spanish National Center for Cardiovascular Research (Madrid, Spain), to carry out the M. Sc experimental component in a CNIC laboratory. Master's final project, *Mechanical phenotypes as contributors to the development of hypertrophic cardiomyopathy*, developed under the supervision of Dr. Jorge Alegre Cebollada (**October 2015 – in progress**)
- Student of **CICERONE program** for undergraduate laboratory project during summer recess at CNIC, Spanish National Center for Cardiovascular Research (Madrid, Spain). Internship supervised by Dr. Jorge Alegre Cebollada. Developed project: *Characterization of mechanical posttranslational modifications in cardiac proteins* (**July 15<sup>th</sup> 2015 – 31<sup>st</sup> August 2015**)
- Student of **CICERONE program** for undergraduate laboratory project during summer recess at CNIC, Spanish National Center for Cardiovascular Research (Madrid, Spain). Internship supervised by Dr. Jorge Alegre Cebollada. Developed project: *Single-molecule dissection of the mechanobiochemistry of cardiac proteins* (**July 15<sup>th</sup> 2014 – 29<sup>th</sup> August 2014**)

## Awards and achievements

- Poster presentation: *Characterization of the Redox State of Cryptic Cysteines in Titin*. Poster awarded as *Best Poster* in Undergraduate Students category at "X Journeys of Young Researchers at Albacete" (Albacete, Spain). **October 2014**.
- Ranked third at *Spanish Olympics in Biology* (OEB) in the regional phase and participant in the national phase. **April 2011**

## Conferences/presentations

- Poster "*Cabut regulates InR/TOR signaling during dorsal closure in Drosophila*" co-author. Poster presentation at Valencia, Spain, at *XXXVIII Congress of the Spanish Society for Biochemistry and Molecular Biology* (**September 2015**)
- Poster "*Regulation of titin mechanics by native redox posttranslational modifications*" co-author. Poster presentation in Dresden, Germany, at *X European Biophysics Congress* (**July 2015**)
- Poster "*A mass-spectrometry based method to study the redox state of cysteines in titin*" co-author. Poster and communication presentation at Granada, Spain, at *XV Congress of the Spanish Biophysical Society* (**June 2015**)

- Participant at *X Journeys of Young Researchers at Albacete*. Poster “*Characterization of the Redox State of Cryptic Cysteines in Titin*” presentation. **October 2014**.

## Level of English

- C2 level at EF Cambridge English Level Test from *EF International Language Centers London*, after a two-weeks course at London (**August 2011**)
- FIRST and ADVANCED (CAE) levels from Cambridge University.
- B1, B2 and C1 levels from *Proyecto Unidiomas* in English (tests based on the criteria established by the *Council of Europe Common European Framework of Reference, CEFR*).