

# Viviana Villa

PhD student

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## Education

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October 2015 - July 2018

**Master's degree**

University of Sassari

Grade: 110/110

Dissertation title: "Role of the Irrk2 gene in Parkinson's disease in drosophila transgenic models."

October 2010 - February 2014

**Bachelor's degree**

University of Sassari

Grade: 110 and honors

## Experience

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September 2022 - Present (5 months)

Stockholm, Sweden

**Karolinska Institutet · Laboratorie Medicine**

**Visiting PhD student**

In this chapter of my PhD programme, I'm focusing on A $\beta$  loss of function, through:

- ex-vivo biodistribution studies with radiolabelled A $\beta$  on rats, using ex-vivo cerebral autoradiography, ex-vivo biodistribution analysis by gamma counter and SDS page.
- binding studies with radiolabelled compounds to detect the binding affinity between  $\alpha$ -7 nicotinic receptor, known to be involved in memory formation mechanisms, and A $\beta$ .

November 2020 - Present (2 years and 3 months)

Genova, Liguria, Italy

**University of Genoa - Department of experimental medicine *PhD student***

My PhD mainly focuses on in vitro studies of new possible therapeutic approaches in glaucoma and Alzheimer's disease, using molecular biology techniques such as western blotting, ELISA and MTT.

November 2019 - March 2020 · (5 months)

Cagliari, Sardegna, Italy

**University of Cagliari - Department of neuroscience**

***Intern***

The internship was carried out within the experimental activities of the European project JUSTSO which involves 10 European partners in Italy, Spain, Greece, Lithuania and Germany. The JUSTSO project envisages the study of a specific class of New Psychoactive Substances (NPS), represented by the New Synthetic Opioids (NSO). During the internship I participated in in vivo studies on rodents, in order to characterize some NPS under the pharmacological and toxicological aspects.

## Publications

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**SARS-CoV-2 and HSV-1 Induce Amyloid Aggregation in Human CSF.** Preprint. Sept 2022.

Wanda Christ, Sebastian Kapell, Georgios Mermelekas, Björn Evertsson, Helena Sork, Safa Bazaz, OskarGustafsson, Michal J. Sobkowiak, Eduardo I. Cardenas, Viviana Villa, Roberta Ricciarelli, Johan K.Sandberg, Jonas Bergquist, Andrea Sturchio, Per Svenningsson, Tarja Malm, Alberto J. Espay, Maria Pernemalm, Anders Lindén, Jonasklingström, Samir El Andaloussi and Kariem Ezzat.

**A New Bistable Switch Model of Alzheimer's Disease Pathogenesis.** International Journal of Molecular Sciences · Jun 25, 2022. Bruno Burlando, Serena Losacco, Viviana Villa, Ernesto Fedele and Roberta Ricciarelli.

**Selective inhibition of phosphodiesterase 4D increases tau phosphorylation at Ser214 residue.** BioFactors · May 13, 2022. Viviana Villa, Giulia Montalto, Francesca Caudano, Ernesto Fedele, Roberta Ricciarelli.

## Congresses

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**Il valore scientifico e l'uso appropriato del farmaco.** 41° Congresso nazionale della Società Italiana di Farmacologia. Roma, Ergife Palace Hotel 16-19 November 2022.

**Poster presentation:** "Selective pharmacological inhibition of PDE5 and PDE4D enhances Tau phosphorylation at Ser214 residue". Fedele Ernesto, Villa Viviana, Montalto Giulia, Caudano Francesca, Ricciarelli Roberta, Fedele Ernesto.

**"Molecular Pathology: from bench to bedside"**. SIPMeT Young Scientist Meeting - 10-11 December 2021, Perugia, Italy.

**Poster presentation:** "Antiproliferative strategy to improve the outcome of glaucoma surgery". Viviana Villa, Barbara Marengo, Carlo Cutolo, Giulia Montalto, Maria A. Pronzato, Michele Iester, Roberta Ricciarelli