



Federica Di Vetta

WORK EXPERIENCE

[03/2024 – Current]

Research Fellow at Neuroscience Institute, CNR

Supervisor: Dott.ssa Laura Baroncelli

City: Pisa

Country: Italy

[11/2023 – 12/2023]

Visiting student at Centre for Discovery Brain Sciences, University of Edinburgh

Supervisor: Prof. Stuart Cobb

City: Edinburgh

Country: United Kingdom

[07/2022 – 02/2024]

Research Fellow at Department of Neuroscience, Psychology, Area of the Drug and Health of the Child (NEUROFARBA), University of Florence

Supervisor: Prof.ssa Maria Del Viva

City: Pisa

Country: Italy

I studied neurodevelopmental disorders at functional and behavioral level in zebrafish. In particular, the purpose of the project was to evaluate the role of creatine deficiency on neuronal and cardiac development in mutant zebrafish.

[03/2021 – 05/2022]

Internship at Neuroscience Institute, CNR

Supervisor: Dott.ssa Laura Baroncelli

City: Pisa

Country: Italy

Technical skills acquired: animal handling, behavioral tests (Y-maze, ORT, MWM), intracerebroventricular (icv) injection, PCR, immunohistochemistry, maintenance of cell cultures (HEK293T), fluorescence microscopy, molecular cloning, general laboratory maintenance.

[02/2019 – 09/2019]

Internship at Department of Molecular and Developmental Medicine, University of Siena

Supervisor: Prof.ssa Daniela Rossi

City: Siena

Country: Italy

Technical skills acquired: DNA extraction, western blot.

EDUCATION AND TRAINING

[11/2022 – Current]

PhD student in Biology

University of Pisa

City: Pisa

Country: Italy

[09/2019 – 05/2022]

Master's Degree in Molecular Biotechnology

University of Pisa - Scuola Superiore Sant'Anna

City: Pisa

Country: Italy

Final grade: 108/110

Thesis: Deficit del trasportatore della creatina: un viaggio sulla strada della terapia genica

[09/2016 – 09/2019]

Bachelor's Degree in Biotechnology

University of Siena

City: Siena

Country: Italy

Final grade: 110/110

Thesis: Studio della via di segnalazione PI3K/AKT in topi knockout per sAnk1.5

[08/2011 – 06/2016]

High School Diploma

Scientific High School "G. Pellecchia"

City: Cassino

Country: Italy

Final grade: 90/100

LANGUAGE SKILLS

Mother tongue(s): Italian

Other language(s):

English

LISTENING B1 **READING** B2 **WRITING** B2

SPOKEN PRODUCTION B1 **SPOKEN INTERACTION** B1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft Word | Microsoft Powerpoint | Microsoft Excel | Microsoft Office | SnapGene | Google Drive | ImageJ | GraphPad Prism

PUBLICATIONS

[2023]

Cell-specific vulnerability to metabolic failure: the crucial role of parvalbumin expressing neurons in creatine transporter deficiency.

Ghirardini E., Sagona G., Marquez-Galera A., Calugi F., Navarron C.M., Cacciante F., Chen S., Di Vetta F., Dadà L., Mazziotti R., Lupori L., Putignano E., Baldi P., Lopez-Atalaya J.P., Pizzorusso T., Baroncelli L.

[2021]

The Role of Preclinical Models in Creatine Transporter Deficiency: Neurobiological Mechanisms, Biomarkers and Therapeutic Development

Ghirardini E., Calugi F., Sagona G., [Di Vetta F.](#), Palma M., Battini R., Cioni G., Pizzorusso T., Baroncelli L.

CONFERENCES AND SEMINARS

[11/11/2023 - 15/11/2023] **Society for Neuroscience 2023** Washington

Poster presentation. Title: "Gene replacement therapy for cure of Creatine Transporter Deficiency Syndrome"

Iovino L., [Di Vetta F.](#), Dadà L., Montani C., Ghirardini E., Calugi F., Sagona G., Pizzorusso T., Gozzi A., Baroncelli L.

[27/09/2023 - 29/09/2023] **BraYn Conference 2023** Napoli

Poster presentation. Title: "Development of gene therapy as a possible cure for Creatine Transporter Deficiency Syndrome"

[Di Vetta F.](#), Iovino L., Dadà L., Ghirardini E., Montani C., Calugi F., Sagona G., Pizzorusso T., Gozzi A., Baroncelli L.

[11/10/2022 - 14/10/2022] **European Society of Gene & Cell Therapy (ESGCT), 29th Congress 2022**
Edinburgh

Poster presentation. Title: "Towards a cure for Creatine Transporter Deficiency: promises and challenges of gene therapy".

Ghirardini E., Calugi F., Cacciante F., Sagona G., Montani C., [Di Vetta F.](#), Palma M., Dadà L., Pizzorusso T., Baroncelli L.

[09/07/2022 - 13/07/2022] **FENS Forum 2022** Paris

Poster presentation. Title: "Towards a cure for Creatine Transporter Deficiency: a gene therapy approach".

Ghirardini E., Cacciante F., Calugi F., Sagona G., Montani C., [Di Vetta F.](#), Palma M., Pizzorusso T., Baroncelli L.
