

Scuola Normale Superiore and Istituto di Neuroscienze CNR

I studied two proteins involved in synaptic plasticity (ERK1 and ERK2) by analyzing their properties of nuclear-cytoplasmic trafficking by means of confocal imaging of fluorescent chimaeric constructs.

My work was under the supervision of Dr. Gian Michele Ratto and Prof. Lamberto Maffei.

Acquired skills: Cell Culture of cell lines, Primary neurons cell culture, Transfection, Confocal Imaging, FLIP, FRAP, StripFRAP, Data analysis with ImageJ, Immunocytochemistry.

Professional, scientific and technical activities / <http://www.sns.it/en/>
/ Piazza dei Cavalieri, 7, 56126, Pisa, Italy

07/01/2002 - 06/05/2004

M. Sc. project: Functional analysis of the C-terminal domain of XOt_x2 and XOt_x5b in *Xenopus laevis* early development

Università di Pisa

I performed a molecular dissection of XOt_x2 and XOt_x5b to find the domain responsible for anterior fate specification and induction in *Xenopus laevis* gastrulation. Through Molecular Biology techniques, I generated deletion constructs and I assessed their capability to induce the development of an anterior marker in *Xenopus*.

My work was under the supervision of Prof. Robert Vignali and Prof. Giuseppina Barsacchi.

Acquired skills: Molecular cloning, PCR, restriction digestion, DNA Electrophoresis, Production and purification of DNA, RNA and proteins, PAGE, Western Blot, Micromanipulation, Microinjection of *Xenopus* oocytes and embryos, "whole mount" *in situ* hybridization of *Xenopus* embryos.

Professional, scientific and technical activities / <http://www.unipi.it/index.php/english> / Lungarno Antonio Pacinotti, 56126, Pisa, Italy

EDUCATION AND TRAINING

01/01/2005 - 06/03/2013 - Pisa, Italy

Ph. D in Neurobiology

Scuola Normale Superiore

During my Ph. D. School I attended the courses of Neurobiology, Seminars in Neurobiology and Molecular Medicine and I performed the experimental activity on ERK1 and ERK2 described in the work experience section.

Ph. D. degree in Neurobiology with a final graduation of 70/70 cum laude.

EQF level 8

05/11/1998 - 06/05/2004 - Pisa, Italy

MSc. in Biological Sciences: Molecular Biology curriculum

University of Pisa

At University of Pisa I focused on Molecular Biology courses and I performed the MSc. thesis on XOt_x2 and XOt_x5b at the Cellular and Molecular Laboratory (see work experience for details).

MSc. degree in Biological Sciences with a final graduation of 110/110 cum laude.

EQF level 7

15/09/1993 - 15/07/1998 - Pisa, Italy

High School Degree (Diploma di Maturità Scientifica)

Liceo Scientifico Ulisse Dini

I choose a High School focused on scientific courses. There, I learned integrals, derivatives and study of functions, basic Physics, history of philosophy from Tales to Hegel. I learned also basic Latin and German.

High School degree with 60/60.

EQF level 5

LANGUAGE SKILLS

MOTHER TONGUE(S): Italian

OTHER LANGUAGE(S):

English

Listening
C1

Reading
C1

**Spoken
production**
B2

**Spoken
interaction**
C1

Writing
C1

German

Listening
B1

Reading
B1

**Spoken
production**
B1

**Spoken
interaction**
B1

Writing
B1

French

Listening
A2

Reading
A2

**Spoken
production**
A2

**Spoken
interaction**
A2

Writing
A2

DIGITAL SKILLS

Microsoft Word / Microsoft Excel / Outlook / Microsoft Powerpoint /
Microsoft Office / Google Drive