



Valentina Longo

About me: I have always been fascinated by science and its capability to improve human quality of life. I am a dynamic and an eclectic person and I approach the work with dedication and positivity. Thanks to my experience and formation I developed problem solving capacities and critical thinking. I have good organizational, analytical and interpersonal skills which allow me to excel in my job both individually or in a team.

● EDUCATION AND TRAINING

01/11/2017 – 31/10/2020 – Rome, Italy

PHD IN NEUROSCIENZE (XXXIII CICLO) – Università Cattolica del Sacro Cuore

My research activity concerns the study of plasticity mechanisms occurring in central nervous system, with particular interest in non invasive brain stimulation techniques as valuable tools in modulating synaptic plasticity and capable of promoting motor recovery after stroke and cognitive enhancement in dementia

Field(s) of study

- Neuronal plasticity
- Ischemic stroke
- Non invasive brain stimulation techniques

waiting for the discussion of the thesis |

Transcranial direct current stimulation promotes motor cortex plasticity in healthy and stroke mice

10/05/2020

ICH GOOD CLINICAL PRACTICE – The Global Health Network

11/12/2015 – Lecce, Italy

STATE EXAM OF BIOLOGIST – Salento University

01/11/2012 – 22/07/2015 – Pisa, Italy

MASTER'S DEGREE IN BIOLOGY APPLIED TO BIOMEDICINE-NEUROBIOLOGICAL CURRICULUM – Pisa University

110/110 cum laude | Effects of visual experience on functional and anatomical measures of visual cortex plasticity

01/09/2014 – 31/05/2015 – Cardiff, United Kingdom

UNDERGRADUATE TRAINEE FOR EXPERIMENTAL THESIS (ERASMUS+ PROGRAM) – Cardiff University

Field: Visual cortex plasticity

Techniques: Surgery on mice, Optical imaging, immunohistochemistry

Effects of visual experience on functional and anatomical measures of visual cortex plasticity

10/2014 – Cardiff, United Kingdom

SCIENTIFIC PROCEDURES ON EXPERIMENTAL ANIMALS – Cardiff University

Animal Model: mouse and rats

Procedures : manipulation, surgery, analgesia and anesthesia.

● WORK EXPERIENCE

01/03/2016 – 31/12/2017 – Rome, Italy

PHYSIOLOGY MENTORING OF THE "BIOTECNOLOGIE SANITARIE" DEGREE COURSE – Università Cattolica del Sacro Cuore

Teaching practical applications of knowledge on human physiology (i.e. electrocardiography, neuro electrophysiology reflexes action potential)
Carrying out research activity in the neuroscience field, increasing my skills in electrophysiology on mouse models (in vivo EEG; ex vivo patch clamp and field recordings)
Roma, Italy

PUBLICATIONS

Plasma BDNF levels following transcranial direct current stimulation allow prediction of synaptic plasticity and memory deficits in 3xTg-AD mice

Front Cell Dev Biol 2020 Jul 3. doi:10.3389/fcell.2020.00541
2020

Enhancing plasticity mechanisms in the mouse motor cortex by anodal transcranial direct current stimulation: the contribution of nitric oxide signaling

Cereb Cortex. 2020 May 14. doi: 10.1093/cercor/bhz288
2020

Altered Nup 153 expression impairs the function of cultured hippocampal neural stem cells isolated from a mouse model of Alzheimer's Disease

MolNeurobiol.2019Aug5;doi:10.1007/s12035-018-1466-1
2019

Enhancement of visual cortex plasticity by dark exposure

PhilosTransRSocLondBBiolSci.2017Mar5;doi:10.1098/rstb.2016.0159
2017

LANGUAGE SKILLS

Mother tongue(s): ITALIANO

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	B2	B2	B2	B2	B2

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

DIGITAL SKILLS

Microsoft Word | Microsoft Excel | Microsoft Office | Microsoft Powerpoint | Google Drive

08/12/2020

Valentina Ligo