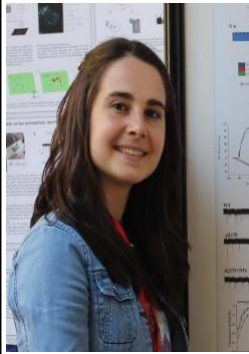


Curriculum Vitæ

FORMATO EUROPEO PER IL CURRICULUM VITAE



PERSONAL INFORMATION

Surname and name

TRUCCO ARIANNA

E-mail address

arianna.trucco01@universitadipavia.it

Nationality

Italian

Date of birth

JUNE 4th, 1997

WORK EXPERIENCE

ACTUAL POSITION

- Time period (from – to)
- Name and address of the Principal Investigator
- Position

1-10-2023 – nowadays

Prof. Gerardo Biella – Dr. Paolo Spaiardi

Electrophysiology and Biophysics of Ion Channels Lab
Department of Biology and Biotechnology “L. Spallanzani”
University of Pavia: 6, Via Forlanini, Pavia, 27100, Italy

PhD student

PAST EXPERIENCES

- Time period (from – to)
- Name and address of the Principal Investigator
- Reserch field
- Position
- Principal subjects covered, and skills acquired

15-05-2023 – 30-9-2023

Prof. Gerardo Biella – Prof. Paolo Walter Cattaneo

Electrophysiology and Biophysics of Ion Channels Lab – National Institute for Nuclear Physics (INFN)

Department of Biology and Biotechnology “L. Spallanzani” - Department of Physics
University of Pavia: 6, Via Forlanini, Pavia, 27100, Italy - 6, Via Agostino Bassi, Pavia, 27100, Italy

SPEye project (development of an innovative subretinal prosthesis consisting of a silicon photomultiplier - SiPM)

Awarding of a thematic scholarship for recently graduated student by INFN (Pavia)

Evaluation of the SiPM electric field

SiPM biocompatibility: setting of electrophysiological recordings on SHSY5Y cells, which undergo protocols to express a neuron-like phenotype

Bibliographic research to planning an experimental cycle, focusing the attention on optogenetics and calcium-imaging experiments

- Time period (from – to)

27-01-2023 - 14-05-2023

*Pagina 1 - Curriculum vitae di
[Trucco, Arianna]*

Per ulteriori informazioni:

www.cedefop.eu.int/transparency
www.europa.eu.int/comm/education/index_it.html
www.eurescv-search.com

- Name and address of the Principal Investigator
- Research field
 - Position
- Principal subjects covered, and skills acquired

Prof. Gerardo Biella

Electrophysiology and Biophysics of Ion Channels Lab
Department of Biology and Biotechnology "L. Spallanzani"
University of Pavia: 6, Via Forlanini, Pavia, 27100, Italy
Neurophysiology and Biophysics of Ion Channels

Volunteer attendant before PhD

Whole-cell patch clamp electrophysiological recordings on brain slices
Experimental data analysis
Immunofluorescence techniques
Bibliographic research to planning an experimental cycle

- Time period (from – to)

01-10-2020 – 26-01-2023

- Name and address of the Principal Investigator
- Research field
 - Position
- Principal subjects covered, and skills acquired

Prof. Gerardo Biella

Electrophysiology and Biophysics of Ion Channels Lab
Department of Biology and Biotechnology "L. Spallanzani"
University of Pavia: 6, Via Forlanini, Pavia, 27100, Italy
Neurophysiology and Biophysics of Ion Channels

Internship for Master thesis

Whole-cell patch clamp electrophysiological recordings on brain slices
Experimental data analysis
Immunofluorescence techniques

Bibliographic research to planning an experimental cycle, focusing the attention on the identification of striatal markers and their primers and the setting of patch-seq. experiments

- Time period (from – to)

01-01-2019 – 28-11-2019

- Name and address of the Principal Investigator
- Research field
 - Position
- Principal subjects covered, and skills acquired

Prof.ssa Maurizia Dossena

Pharmacobiochemistry Lab
Department of Biology and Biotechnology "L. Spallanzani"
University of Pavia: 9, Via Ferrata, Pavia, 27100, Italy

Colorectal Cancer, Alzheimer's disease, Nervous Anorexia: amino acids dosages

Internship for Bachelor thesis

Laboratory basic activities
Processing of blood and cerebrospinal fluid samples derived from patients

EDUCATION AND TRAINING

- Year of graduation

2023

- Name and locality of the educational or training organization

University of Pavia: 65, Corso Strada Nuova, Pavia, 27100, Italy

- Thesis title

Functional alterations of striatal cells' different populations in a mouse model of Huntington's disease: *early* and *late stages* comparison

- Degree grade

110/110 with honour

- Qualification awarded

Master's degree in Neurobiology

- Level in national classification

EQF 7

- Year of graduation

2019

- Name and locality of the educational or training organization

University of Pavia: 65, Corso Strada Nuova, Pavia, 27100, Italy

- Thesis title

Cancer patients being treated with XELOX: plasma dosages of malonyldialdehyde and amino acids

- Degree grade

109/110

- Qualification awarded

Bachelor's degree in Biological Sciences

- Level in national classification

EQF 6

- Year of graduation
- Name and locality of the educational or training organization
- Degree grade
- Qualification awarded
- Level in national classification

2016
 High school "G.D. Cassini": 53, Corso Cavallotti, Sanremo, 18038, Italy
 93/100
 Classical high school diploma
 EQF 4

LINGUISTIC SKILLS AND COMPETENCES

NATIVE LANGUAGE

ITALIAN

OTHER LANGUAGES

ENGLISH [(CERTIFICATE *TRINITY* GRADE 6; STUDY HOLIDAY IN 2015 AT THE DRAMA STUDIO IN LONDON)]

- Understanding (listening and reading)
 - Writing
 - Speaking

INDEPENDENT USER

INDEPENDENT USER

INDEPENDENT USER

- Understanding (listening and reading)
 - Writing
 - Speaking

FRENCH (CERTIFICATE *DELTA* GRADE A2)

BASIC USER

BASIC USER

BASIC USER

SOCIAL AND PLANNING SKILLS

GOOD PREDISPOSITION TO WORK IN TEAM AND TO SETUP COLLABORATIONS

ABILITY TO SPEAK IN PUBLIC PRESENTING SCIENTIFIC ARTICLES AND RESULTS FROM EXPERIMENTAL ACTIVITY

ORGANIZATION AND PROBLEM-SOLVING SKILLS DERIVED FROM THE EXPERIMENTAL PLANNING

JOB-RELATED SKILLS AND COMPETENCES

GOOD COMMAND OF THE INTRACARDIAC PERFUSION PROCEDURE AND MURINE BRAIN DISSECTION

GOOD KNOWLEDGE OF *WHOLE-CELL PATCH CLAMP* TECHNIQUE ON MURINE BRAIN SLICES AND BASIC ONE ON CELL CULTURES: NEURONS ELECTRICAL ACTIVITY REGISTRATION BOTH BEFORE AND AFTER THE APPLICATION OF A DRUG/TOXIN INTO THE BATH; HELP IN SETTING *EX-VIVO* LTP INDUCTION

GOOD KNOWLEDGE OF IMMUNOFLUORESCENCE PROTOCOL ON BRAIN SLICES

GOOD ABILITY IN ISOLATING HIPPOCAMPAL AREAS AND STRIATUM FROM MURINE BRAIN SLICES

GOOD KNOWLEDGE OF THE GENOTYPING PROTOCOL: DNA EXTRACTION FROM MURINE TISSUE (TAIL OR FINGER), POLYMERASE CHAIN REACTION (PCR), AGAROSE ELECTROPHORESIS GEL

GOOD ABILITY IN MOUSE MANIPULATION IN ANIMAL FACILITY AND MOUSE COLONY ADMINISTRATION

INFORMATIC SKILLS AND COMPETENCES

CERTIFICATE ECDL CORE FULL

GOOD KNOWLEDGE OF *WINDOWS* AND *MACOS*

GOOD KNOWLEDGE OF *MICROSOFT OFFICE PACKAGE (WORD, EXCEL, POWERPOINT)*

GOOD KNOWLEDGE OF *PCLAMP* DATA ACQUISITION AND ANALYSIS PACKAGE (*CLAMPX* AND *CLAPFIT*)

Per ulteriori informazioni:

www.cedefop.eu.int/transparency

www.europa.eu.int/comm/education/index_it.html

www.eurescv-search.com

GOOD KNOWLEDGE OF *MICROCAL ORIGIN*
BASIC KNOWLEDGE OF *IMAGEJ*
DATA ANALYSIS USING HOMEMADE SCRIPT IN *LABVIEW*
GOOD KNOWLEDGE OF THE *ENTREZ-PUBMED DATABASE*

DIDACTIC ACTIVITY

Preparation and discussion of seven didactic seminars for the course "Comparative Anatomy" of the Bachelor's degree in Science and Technology for Nature and Biological Sciences at University of Pavia (November, 2019). Principal Investigator: Prof. Vittorio Bertone.

Preparation and discussion of a didactic seminar about excitatory post-synaptic currents analysis through a *LabVIEW* script for the course "Cellular neurophysiology" of the Master's degree in Neurobiology at University of Pavia (2022 - 2024). Principal Investigator: Prof. Gerardo Biella and Dr. Francesca Talpo.

CONFERENCES AND SEMINARS

ATTENDED

CERTIFICATES FOR ANIMAL MANIPULATION THEORY AND PRACTICE:

"Minisimposi sulla sperimentazione animale in biomedicina: un percorso di scienza, storia, diritto, etica e medicina" (online: March 18th, 2021; June 9th, 2021; June 21st, 2021; September 23rd, 2021; October 29th, 2021)

Teramo IZS "Recognition of pain, suffering and distress and its application in the evaluation of severity of the procedures (species specific: mice and rats) – III Edition" (online: November 2023)

IZSLER "Biologia e gestione degli animali da laboratorio, moduli 3.1, 4, 5, 6.1, 7. DM 5 agosto 2021 roditori e lagomorfi – 1^a Edizione" (online: November, 2023)

IZSLER "Legislazione nazionale ed etica livello 1, moduli 1 e 2, DM 5 agosto 2021 – 1^a Edizione" (online: November, 2023)

IZSLER "Etica e concezione dei progetti, moduli 9, 10, 11, DM 5 agosto 2021 – Edizione Unica" (online: November, 2023)

"Percorso formativo per funzione A. Moduli 3.2 Biologia di Base – 6.2 Eutanasia – 8 Procedure minimamente invasive senza anestesia. Specie topo e ratto. 12 CFP" (Charles River, Calco, Italy, December 4th-5th, 2023)

ANALYSIS:

Mario A. Comelli "Statistical models useful in biomedical and behavioural research – a "hands on" approach exploiting the package R" (Pavia, September 25th-29th, 2023)

OTHERS:

Giacomo Rizzolatti "Specchi nel cervello: basi neurali dell'empatia" (Cairoli college, Pavia, December 3rd, 2019)

Elena Cattaneo "Staminali e trascrittomica *single-cell* per le malattie neurodegenerative" (online: February 4th, 2021)

Symposium in honour of Professor Jacopo Magistretti (Pavia, September 22nd, 2021)

Michael W. Young "Chronic social isolation signals starvation in the Drosophila brain and reduces sleep" (Pavia, April 7th, 2022)

"Next Generation Neurobiology Training: a new Era Begins at University of Pavia" (Pavia, September 22nd-23rd, 2022)

Edward Moser "Neural computation of space and time" (Pavia, March 1st, 2023)

Thomas C. Südhof "Towards a cell biology of Alzheimer's disease" (Pavia, May 26th, 2023)

Congresso FISV "Genomica: tecnologie avanzate" (Milan, January 25th-26th, 2024)

FENS Forum 2024 (Vienna, June 25th-29th, 2024)

Fresco International Workshop on synaptic plasticity and advances in Parkinson's disease (Milazzo, September 19th-21st, 2024)

THESIS CO-SUPERVISOR

Co-supervisor of Bachelor's degree in Biological Sciences thesis "Electrophysiological characterization of striatal medium spiny neurons differentiated from human embryonic stem cells and engineered to express hM3Dq and KORD chemoreceptors". Candidate: Chiara Donati. Supervisor: Dr. Paolo Spaiardi.

Co-supervisor of Bachelor's degree in Biological Sciences thesis "Study of spontaneous excitatory postsynaptic currents of CA1 pyramidal neurons of mouse after the perfusion of IGF-II". Candidate: Maya Brusa. Supervisor: Prof. Gerardo Biella.

OTHER ACTIVITIES

Member of "Commissione Paritetica Docenti-Studenti" for the Master's degree in Neurobiology at University of Pavia (November 2020 - November 2022)

SHARPER (SHAring Researchers' Passion for Enhanced Roadmaps) – European Researchers' Night: presenter at the stand "MagicaMENTE!" (Pavia, September 2021, 2022, 2023)

SHARPER (SHAring Researchers' Passion for Enhanced Roadmaps) – European Researchers' Night: presenter at the stand "Neuropolis" (Pavia, September 2024)

Roundtable with the Nobel prize Edward Moser (Pavia, March 2nd, 2023)

POSTER, ABSTRACTS AND ORAL PRESENTATIONS

Canevari C, **Trucco A**, Raffin F, Talpo F, Bisceglia D E, Ruto F, Salerno C, Valenza M, Biella G "Restoration of cortico-striatal connectivity in a mouse model of Huntington's disease through the administration of cholesterol-loaded nanoparticles". Presenter at the congress "Next Generation Neurobiology Training: a new Era Begins at University of Pavia" (**Pavia, September 22nd-23rd, 2022**)

Raffin F, De Luca R, **Trucco A**, Castagno A N, Spaiardi P, Talpo F, Fuller P M, Biella G, Arrigoni E "Neuropeptidergic modulation of the hypothalamic subparaventricular neurons in mouse brain slices". SFN 2023 (**Washington DC, November 11th-15th, 2023**)

Castagno A N, Spaiardi P, **Trucco A**, Maniezzi C, Raffin F, Mancini M, Nicois A, Cazzola J, Del Papa P, Pedrinazzi M, Pisani A, Talpo F, Biella G "Shaping the spikes: oxytocinergic modulation of action potentials in the CA1 hippocampal region of mice". SINS 2023 (**Turin, September 14th-17th, 2023**)

Trucco A, Spaiardi P, Castagno A N, Raffin F, Mancini M, Cazzola J, Faravelli G, Talpo F, Biella G "Functional impairments of striatal neurons in Huntington's disease: fast-spiking interneurons and their key role during the early stages of the pathology". FENS 2024 (**Vienna, June 25th-29th, 2024**)

Castagno A N, Spaiardi P, **Trucco A**, Cazzola J, Raffin F, Mancini M, Nicois A, Cazzola J, Del Papa P, Pedrinazzi M, Pisani A, Talpo F, Biella G "Fast and (sometimes) furious: oxytocinergic modulation of fast-spiking interneurons in hippocampal CA1 region and caudoputamen of mice". FENS 2024 (**Vienna, June 25th-29th, 2024**)

Cazzola J, Spaiardi P, Iannantuoni S, Donati C, Maramai S, Saletti M, Castagno A N, Faravelli G, Raffin F, **Trucco A**, Talpo F, Anzini M, Biella G "Physiological evaluation of a new riuzole-based compound as neuroprotective agent" FENS 2024 (**Vienna, June 25th-29th, 2024**)

Trucco A, Spaiardi P, Castagno A N, Raffin F, Mancini M, Cazzola J, Faravelli G, Talpo F, Biella G "Different vulnerability of striatal neurons and functional impairments temporal onset in a preclinical model of Huntington's disease during the progression of the pathology". Fresco international workshop on synaptic plasticity and advances in Parkinson's disease (**Milazzo, September 19th-21st, 2024**), also selected for an oral presentation

PUBLICATIONS IN EXTENSO

Birolini G, Valenza M, Ottonelli I, Talpo F, Minoli L, Cappelleri A, Bombaci M, Caccia C, Canevari C, **Trucco A**, Leoni V, Passoni A, Favagrossa M, Nucera M R, Colombo L, Paltrinieri S, Bagnati R, Duskey J T, Caraffi R, Vandelli M A, Taroni F, Salmona M, Scanziani E, Biella G, Ruozi B, Tosi G, Cattaneo E. **Chronic cholesterol administration to the brain supports complete and long-lasting cognitive and motor amelioration in Huntington's disease.** Pharmacological Research. 2023.

Castagno A N, Spaiardi P, **Trucco A**, Maniezzi C, Raffin F, Mancini M, Nicois A, Cazzola J, Pedrinazzi M, Del Papa P, Pisani A, Talpo F, Biella G. **Oxytocin modifies the excitability and the action potential shape of the hippocampal CA1 GABAergic interneurons.** Int J Mol Sci. 2024.

DECLARATION AND SIGNATURE

I allow the use and processing of my personal data according to the *Dlgs 196/2003* concerning the handling of personal data

