Name: Laura Angelozzi.

Place and date of birth: 04/09/1997, Siena, Italy.
Nationality: Italian.
Email address: laura.angelozzi3@unibo.it

CURRENT POSITION:

PhD student in Biomedical and Neuromotor Sciences, Alma Mater Studiorum-University of Bologna (Italy), Department of Biomedical and Neuromotor Sciences (DiBiNem).

WORKPLACE:

- **Department of Biomedical and Neuromotor Sciences** (DiBiNem), Alma Mater Studiorum-University of Bologna (Piazza di Porta San Donato, 2-40126, Bologna, Italy).

- **Department for Life Quality Studies** (QuVi), Alma Mater Studiorum-University of Bologna (Corso D'Augusto, 237-47921, Rimini, Italy).

EDUCATION:

- **[11/2022-current] PhD student in Biomedical and Neuromotor Sciences,** Alma Mater Studiorum-University of Bologna (Italy), Department of Biomedical and Neuromotor Sciences (DiBiNem).

- **[2022] Master's Degree in Molecular and Cell Biology**, Alma Mater Studiorum-University of Bologna (Italy), Department of Pharmacy and Biotechnology (FaBiT).
  Final grade: 110/110 cum Laude.
  Thesis: "Adolescent pharmacotherapy with 7,8-dihydroxyflavone rescues dendritic pathology and improves hippocampus-dependent memory in the Ts65Dn mouse model of Down syndrome".
  Tutor: Prof. Fiorenza Stagni.

- **[01/2022-09/2022] Curricular internship at the Laboratory of Neurophysiology and Neurobiology of Developmental Brain Disorders**, Alma Mater Studiorum - University of Bologna (Italy), Department of Biomedical and Neuromotor Sciences (DiBiNem).

- **[2020] Bachelor's Degree in Biological Sciences**, University of Siena (Italy), Department of Life Sciences.
  Final grade: 110/110.

Thesis: "Analysis of the role of Polo-like kinase 1 in the assembly of the immunological synapse in T lymphocytes."
Tutor: Prof. Francesca Finetti.

- **[10/2019-12/2019] Curricular internship at the Laboratory of Molecular Immunology,** University of Siena (Italy), Department of Life Sciences.

- **[2016] Classical High School Diploma**, Liceo Classico A. Volta, Colle di Val d'Elsa (Italy).

MAJOR RESEARCH FIELDS:

- Therapeutic approaches for the rescue of brain development in the Ts65Dn mouse model of Down syndrome.

- Molecular and physiological mechanisms underlying brain alterations in Down syndrome.

TECHNICAL SKILLS AND COMPETENCES:

- **Animal models:** maintenance of mouse colonies and mice handling for pharmacological treatment; expertise on behavioral tests for evaluation of learning and memory (Morris Water Maze; Novel Object Recognition).

- **Histology:** preparation of histological samples; simple and double fluorescence immunohistochemistry.

- **Neuron morphometry:** reconstruction with dedicated software of brain volume, neuron number and neuronal dendritic arbor.

- **Microscopy:** Fluorescence and Optical.

- **Molecular Biology:** DNA extraction and analysis, PCR technology (PCR), protein purification and analysis (Bradford and Lowry assay, Western Blot).

- **Computer skills and competences:** good knowledge of standard Microsoft Office software (Word, Excel, Power Point), Image Pro Plus software (Media Cybernetics, Silver Spring, MD 20910, USA), Image Lab software (Bio-Rad Laboratories, Hercules, CA, USA), IBM SPSS 22.0 software.

PROFESSIONAL COURSES:

- **[30/05/2022-30/11/2022] "National legislation and ethics level 1, modules

1 and 2, DM 5 August 2021-Single edition". Experimental Zooprophylactic Institute of Lombardia and Emilia-Romagna.

- **[11/07/2022-31/11/2022] "Biology and handling of laboratory animals, modules 3.1, 4, 5, 6.1, 7. DM 5 August 2021 rodents and lagomorphs-1^ Edition".** Experimental Zooprophylactic Institute of Lombardia and Emilia-Romagna.

ABSTRACTS:

- Russo C., Emili M., Guidi S., <u>Angelozzi L.</u>, Aicardi G., Bartesaghi R., Stagni F. **"Administration of the BDNF mimetic 7,8-Dihydroxyflavone during adolescence rescues neuron maturation and improves hippocampus-dependent memory in the Ts65Dn mouse model of Down syndrome".** 72nd SIF National Congress (The Italian Society of Physiology). Bari, Italy, September 14-16, 2022.

- Russo C., Emili M., Guidi S., <u>Angelozzi L.</u>, Aicardi G., Bartesaghi R., Stagni F. **"Trattamento adolescenziale con il BDNF mimetico 7,8-diidrossiflavone: una strategia utile per migliorare lo sviluppo della fascia dentata ippocampica nel modello Ts65Dn di sindrome di Down".** 6th National Scientific Conference, "Sindrome di Down: dalla Ricerca alla Terapia". October 21-22, 2022.

- Russo C., Emili M., Guidi S., <u>Angelozzi L.</u>, Aicardi G., Bartesaghi R., Stagni F. **"Adolescence represents an important window of opportunity for the rescue of dendritic pathology with a BDNF mimetic in a mouse model of Down syndrome".** More than Neurons - Changing the paradigm for novel therapeutic avenues (3rd edition). Turin, Italy, December 15-17, 2022.

PUBLICATIONS:

- Russo C., Emili M., Guidi S., <u>Angelozzi L.</u>, Aicardi G., Bartesaghi R., Stagni F. (2022) **"Administration of the BDNF mimetic 7,8-Dihydroxyflavone during adolescence rescues neuron maturation and improves hippocampus-dependent memory in the Ts65Dn mouse model of Down syndrome".** *Book of abstracts*, 72nd SIF National Congress (The Italian Society of Physiology), Bari, Italy, September 14-16, 2022 (p. 242).

- Russo C., Emili M., Guidi S., <u>Angelozzi L.</u>, Aicardi G., Bartesaghi R., Stagni F. (2022) **"Trattamento adolescenziale con il BDNF mimetico 7,8-diidrossiflavone: una strategia utile per migliorare lo sviluppo della fascia dentata ippocampica nel modello Ts65Dn di sindrome di Down".**

Book of abstracts, 6th National Scientific Conference, "Sindrome di Down: dalla Ricerca alla Terapia", October 21-22, 2022 (p. 37).

- Russo C., Emili M., Guidi S., <u>Angelozzi L.</u>, Aicardi G., Bartesaghi R., Stagni F. (2022) **"Adolescence represents an important window of opportunity for the rescue of dendritic pathology with a BDNF mimetic in a mouse model of Down syndrome".** *Book of abstracts*, More than Neurons - Changing the paradigm for novel therapeutic avenues (3rd edition), Turin, Italy, December 15-17, 2022 (p. 55).

LANGUAGE KNOWLEDGE:

- **Italian** (native speaking).
- **English** (B2 level).
- **French** (A2 level).

LANGUAGE QUALIFICATIONS:

- **[11/12/2020] Language assessment test certificate (B2 level) at the University Language Centre**, Alma Mater Studiorum - University of Bologna (Italy).
- **[2015] Cambridge English qualification**, **FIRST B2**.
- **[2011] Diplôme d'études en langue française**, **DELF A2**.

OTHER QUALIFICATIONS:

- **[2015] ECDL Full Standard Certificate.**

I authorise the use of my personal data according to Legislative Decree N°196/03.

Laura Angelozzi