CURRICULUM VITAE

Andrea Borioli

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WORK POSITION

- **September 2021 – present**

  Research scholarship at Stem cell and Pharmacology lab (Dr. Decimo) – Department of Diagnostics and Public Health – Section of Pharmacology (University of Verona), on the project " Targeting mitochondrial metabolism to promote full neural development in Allan Herndon Dudley Syndrome" funded by Telethon.

EDUCATION

- **October 2018 – July 2021**

  Master's degree in Molecular and Medical Biotechnology.
  Department of Biotechnology, University of Verona, Verona, Italy.
  Final grade: 110/110 cum laude.

  January 2020 – July 2021: Internship at Department of Diagnostic and Public Health, Pharmacology laboratory, directed by Dr. Ilaria Decimo, University of Verona, to prepare a master's degree thesis.

  For the thesis project I focused the attention on the fine-tuned generation of 3D murine cell culture systems resembling the brain hippocampal region. In particular, starting from murine neural stem cells, I was able to produce two functional mouse hippocampal organoid models, endowed with differentiated hippocampal regional identities (Cornu Ammonis and dentate gyrus, respectively) and active neuronal synaptic network, able to mimic the *in vivo* hippocampal circuitry complexity once fused together, giving rise to a first example of hippocampal assembloid.

  Final dissertation:
  "*Specification of hippocampal identity in mouse brain organoids*"

- **October 2015 – November 2018**

  Bachelor's degree in Biotechnology.
  Department of Biotechnology, University of Verona, Verona, Italy.
  Final grade: 108/110.

  October 2017 – February 2018: Internship at Department of Biotechnology, Section of Biochemistry & Molecular Biology, supervised by Dr. Massimiliano Perduca, University of Verona, to prepare a bachelor's degree thesis.

  During my stay in the laboratory, I improved my knowledge about bacterial and yeast cell cultures, gene cloning, vector engineering, protein expression in yeast, DNA and protein extraction from bacteria and yeast, gel electrophoresis, western blot, protein purification.

  Final dissertation:
  "Subclonaggio ed espressione del gene human-fabp12 in lievito Pichia Pastoris".

- **September 2010- July 2015**

  Scientific high school diploma, "Educandato Statale agli Angeli", via Cesare Battisti 8, Verona, Italy.
  Final grade: 88/100.

SCIENTIFIC AND TECHNICAL SKILLS

- In vitro techniques:
  - Bacterial cell cultures
  - Yeast cell cultures
  - Mammal cell cultures
  - Neural stem cell cultures
  - 3D organoid cultures
- Molecular biology techniques:
  - Gene cloning
  - Vector engineering
  - Viral tracing
  - DNA/RNA extraction
  - PCR
  - Extraction of proteins from tissues and cell cultures
  - Agarose and polyacrylamide electrophoresis
  - Western Blot
- Analysis:
  - Cryosectioning
  - Optical and confocal microscopy
  - Immunofluorescence
  - Good knowledge of ImageJ Fiji and GraphPad Prism

SKILLS

Computer Skills

- Software: good knowledge of Microsoft Office tools: Word, PowerPoint, Excel
- Operating Systems: good knowledge of Windows 10

Language Skills

Mother Language: Italian

Other Languages: English

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

Personal Skills

- Teamwork
- Problem-solving
- Critical thinking
- Curiosity
- Flexibility
- Self-motivated
- Professionalism

INTERESTS

- Martial arts
- Cycling
- Farming

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Bosco Chiesanuova, 15/09/2021