



## Arnaud Martino Capuzzo

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**Mobile:** +39 3517548630

**Gender:** Male | **Date of birth:** Aug 30 1996 | **Nationality:** Italy

### PREFERRED JOB

Scientist

### WORK EXPERIENCE

[ 04/2025 - 09/2025 ]

#### Intern

**Aptuit (Verona) Srl, an Evotec Company**, Via Alessandro Fleming 4 - VERONA (VR) Italy

**Company sector:** R&D and patents

**Business or sector:** biomedical

**Main activities and responsibilities:** Trained through internal courses and practical experience to work under GLP conditions, OECD Guidelines and facility SOPs.

**Acquired skills and achieved objectives:** Main activities included providing support in the application of procedures within safety assessment and immunoassay.

Safety Assessment – Genotoxicology

- Ames test (bacterial reverse mutation assay) performed in standard conditions
- In vitro micronucleus assay in mammalian cells, including scoring of micronucleated cells and cytotoxicity assessment (e.g., PCE/NCE ratio, proliferation indices)
- In vivo micronucleus test in rodents (bone marrow), with evaluation of immature erythrocytes and micronuclei frequency
- Application of OECD and ICH guidelines for study design, conduct, and data interpretation
- Experience with assay validation parameters, including accuracy, precision, linearity, specificity, and reproducibility
- Data analysis and statistical evaluation according to regulatory standards (e.g., Kruskal–Wallis, pairwise comparison, trend analysis)
- Preparation of study documentation in compliance with GLP principles

Immunoassay

- DNA extraction from tissues, blood, plasma, and urine (column-based and magnetic bead-based kits)
- DNA and RNA quantification (PicoGreen, spectrophotometric and fluorometric assays)
- RNA extraction from viral vectors and biological samples (plasma, urine, tissue)
- Quantitative PCR (qPCR) and RT-qPCR (TaqMan, One-Step, SensiFAST)
- Primer/probe design and optimization (ratio, concentration, and thermocycling conditions)
- Assay validation and performance evaluation (following internal SOP):
- ELISA (sandwich immunoassay) for soluble protein quantification
- Use of automated platforms and instruments including Tissue Lyser II, centrifuge-based extraction systems, QuantStudio 7 Pro (qPCR), and SpectraMax i3x (fluorescence and absorbance measurements).
- Support in flow cytometry (sample staining and preparation for BD FACSLyric analysis)

[ 10/2024 - 03/2025 ]

#### PhD Internship

**Institut for Regenerative Medecine & Biothérapies (IRMB)** - MONTPELLIER France

**Business or sector:** biomedical

**Main activities and responsibilities:** Production and characterization of extracellular vesicles from murine stem cells and their interaction with gold nanoparticles.

Group leader: Danièle Noel.

Project: 'Extracellular vesicles labeled with gold nanoparticles for Micro-CT detection'

**Acquired skills and achieved objectives:** Extracellular Vesicles, Cell Culture, Micro-CT.

[ 09/2020 - 02/2021 ]

#### Master's Degree Internship

**CellDynamics** - BOLOGNA, EMILIA-ROMAGNA (BO) Italy

**Company sector:** Engineering and design

**Business or sector:** biomedical

**Main activities and responsibilities:** Development of the MCF-7 spheroid model in the laboratory and the use of a microfluidic-based technology, the CELLviewer. My internship allowed me to present my graduation project at the European Biotechnology Congress in 2020.

Group leader: Daniele Vigo, Simone Pasqua, Daniele Gazzola.

**Acquired skills and achieved objectives:** Cell Culture, 3D in vitro model, Microfluidic live imaging, Epifluorescence.

## EDUCATION AND TRAINING

[ 2022 - present ]

### PhD in Nanoscience and Advanced Technologies

*Università degli Studi di VERONA*

**Town:** VERONA

**EQF level:** 8

**NQF level:** Doctor of Philosophy (Ph.D.)

*Principal subjects/occupational skills covered:*

Characterization of extracellular vesicles derived from primary adipose and mesenchymal cells and their interaction with commercial nanoparticles used as contrast medium on some preclinical murine models. I have improved some cell culture and molecular biology methodologies, achieved the in vivo A function for animal experimentation and use of magnetic resonance and micro-CT.

[ 2019 - 2021 ]

### VETERINARY BIOTECHNOLOGY SCIENCES

*Università degli Studi di MILANO*

**Town:** MILANO

2nd level degree in Pharmaceutical, veterinary and medical biotechnologies

**Final degree mark:** 107/110

**EQF level:** 7

**NQF level:** 2nd cycle degree/Master of Science (2 years)

**Dissertation/thesis title:** MICROFLUIDIC LIVE-IMAGING TECHNOLOGY TO PERFORM RESEARCH ACTIVITIES IN 3D MODELS

[ 2015 - 2019 ]

### ANIMAL PRODUCTION SCIENCES

*Università degli Studi di MILANO*

**Town:** MILANO

1st level degree in Animal husbandry

**Final degree mark:** 98/110

**EQF level:** 6

**NQF level:** 1st cycle degree/Bachelor (3 years)

**Dissertation/thesis title:** VALUTAZIONE CHIMICO-NUTRIZIONALE, DEL CONTENUTO IN POLIFENOLI E ANTIOSSIDANTI IN SCARTI E SOTTOPRODOTTI DELL'INDUSTRIA ALIMENTARE

## PRE-UNIVERSITY STUDIES

[ 2015 ]

**Secondary school diploma:** Vocational School, Technological sector, Agriculture, agri-food and agro-industry specialisation, Production and processing focus  
Italian secondary school diploma

## LANGUAGE SKILLS

**Mother tongue(s):** French **Mother tongue(s):** Italian

**Other language(s)**

### English

**LISTENING:** B2 **READING:** B2 **WRITING:** B2

**SPOKEN INTERACTION:** B2 **SPOKEN PRODUCTION:** B2

*Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user  
Common European Framework of Reference for Languages*

## DIGITAL COMPETENCES

| SELF-ASSESSMENT                  |                                       |                             |        |                 |
|----------------------------------|---------------------------------------|-----------------------------|--------|-----------------|
| INFORMATION AND<br>DATA LITERACY | COMMUNICATION<br>AND<br>COLLABORATION | DIGITAL CONTENT<br>CREATION | SAFETY | PROBLEM SOLVING |

DRIVING LICENCE

Driving licence category B / Car available

PUBLICATIONS

Journal articles

"Comparison between USPIOs and SPIOs for Multimodal Imaging of Extracellular Vesicles Extracted from Adipose Tissue-Derived Adult Stem Cells" ; International Journal of Molecular Sciences ; MDPI (2024)  
www.researchgate.net/publication/383895000\_Comparison\_between\_USPIOs\_a...

"Microfluidic Live-Imaging Technology to Perform Research Activities in 3D Models" ; Annals of Advanced Biomedical Sciences (AABSc) ISSN 2641-9459 ; MEDWIN PUBLISHERS (2021)  
www.researchgate.net/publication/349923987\_Microfluidic\_Live-Imaging\_T...

"Updated modification about Spin Bioreactor" ; Journal of Engineering Technology and Applied Sciences ISSN No. 2455-2143 ; IJEAST (2020)  
www.researchgate.net/publication/347557901\_Updated\_modifications\_about...

"Microfluidic live-imaging with CELLviewer technology to perform biotechnological tasks" ; Journal of Engineering Technology and Applied Sciences ISSN No. 2455-2143 ; IJEAST (2020)  
www.researchgate.net/publication/346473853\_Microfluidic\_live-imaging\_w...