





SIMONA AVERSANO STABILE

PHD STUDENT

ADDRESS:

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PERSONAL INFORMATION

Date of birth: 07-22-1996
City of birth: Capua (CE), Italy
Nationality: Italian

SKILLS

In vitro:

- Cell culture;
- FACS staining and acquisition;
- PBMCs and T cells isolation;
- Agarose gel electrophoresis;
- RNA extraction;
- RNA retrotranscription;
- Real-Time PCR;
- Western Blot;
- Immuofluorescence;
- Proliferation, migration, invasion assays;
- Immunohistochemistry.

In vivo:

- Subcutaneous cell injection;
 - Drug intratumoural injection;
 - *Post-mortem* lungs, lymph nodes, spleen and tumour removal;
 - *Post-mortem* blood withdrawal from the heart.
- (Animal models: BALB/c, C57BL/6 and NSG mice)

Computer skills:

- Python, Excel, Word, ImageLab, GraphPad, Fiji, FlowJo.

LANGUAGES

- Italian - Native
- English - C2
- Spanish - B2.

ADDITIONAL INFORMATION

- Charitable organization member;
- Students Council representative;
- Agonistic runner.

CURRENT OCCUPATION

PhD Student

PhD Programme in Complex Systems for Quantitative Biomedicine

University of Turin, Turin | Nov 2021 - Ongoing

Identification of the mechanisms underlying T cell fate decision.
Performance of *in vitro*, *in vivo* and *ex vivo* experiments and data analysis.
Use of FACS analysis programs.

WORK EXPERIENCES

Research Fellow

Immunology Research

Italian Institute for Genomic Medicine, Candiolo (TO) | Sep 2020 - Oct 2021
Assessment of the immunological response exerted against SARS-CoV-2.
Performance of *in vitro* experiments and data analysis. Use of FACS analysis programs.

TRAINEESHIP

Breast Cancer Research

Molecular Biotechnology Center, Turin | Nov 2018- Jul 2020
Investigation of cancer-stroma crosstalk in a murine breast cancer model. Performance of *in vitro* and *in vivo* experiments and data analysis. Use of image processing programs and programming languages.

Arthritis Research

University of Siena, Siena | Nov 2017- May 2018
Insights in the molecular pathway responsible of the neutrophilic NETotic death process in crystal and non-crystal-induced arthritis. Performance of *in vitro* assays on arthritic patients' synovial fluid.

EDUCATION

University of Turin

Turin | Oct 2018- Jul 2020
Master Degree in Molecular Biotechnology
Language of the course: English
Thesis title: "STAT3 target genes encoding for secreted proteins mediate the cross-talk between cancer-associated fibroblasts and breast cancer cells"
Graduation mark: 110/110 with praise.

University of Siena

Siena | Oct 2015 - Jul 2018
Bachelor Degree in Biotechnology
Language of the course: Italian
Language of the thesis: English
Thesis title: "Neutrophil extracellular traps formation in crystal and non-crystal induced arthritis involves MLKL signaling"
Graduation mark: 110/110 with praise.