

PERSONAL INFORMATION

Tonia De Simone



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✉ tonia.desimone@univr.it

Sex Female | Date of birth 19/05/1992 | Nationality Italian

POSITION

01/10/2019 - Current

PhD student in Applied Life and Health Sciences

Department of Neuroscience, Biomedicine and Movement - Biology and Genetics section

University of Verona

Strada Le Grazie n. 8, 37134, Verona, Italy

- I work mainly with genome editing and regulation of gene expression mediated by microRNAs and viral proteins.

Business or sector Professional, Scientific and Technical activities.

EDUCATION AND TRAINING

01/09/2015 - 27/02/2019

Master's degree in Molecular Biology (LM-6)

EQF level 7

University of Parma, PR, Italy

- 110/110 cum laude
- Thesis: "Role of DNMT1 and DNMT3A in response to hypomethylating drugs, 5AZA and DEC, in Diffuse Large B cell lymphoma"

01/10/2017 - 01/10/2018

Internship in a Translational Research Laboratory

Hospital - IRCCS Arcispedale Santa Maria Nuova - AUSL Reggio Emilia, Italy

- **Main activities and responsibilities:** The activities carried out concern the study of DNA methyltransferases, a group of enzymes involved in epigenetic regulation, in lymphoma cell lines, analysis and evaluation of the effects induced by hypomethylating drugs (5-azacitidine and decitabine) currently used in the clinic, gene silencing approaches useful for the study of gene expression in particular conditions, analysis of the results with graphic drafting and presentation of the same.
- **Skills and objectives achieved:** The skills acquired will concern Cell cultures - Manipulation of tumor cells - Gene silencing by siRNA; Quantitative PCR; analysis of proteins by immunoblotting - Analysis of results and statistical analysis - Graphical representation of data.

Business or sector Professional, Scientific and Technical activities.

09/2011 - 16/07/2015

Bachelor's degree in Biological science (L-13)

EQF level 6

University of Naples "Parthenope", NA, Italy

- 110/110 cum laude
- Thesis: "New isoforms in differentially expressed genes in myocardial infarction"

01/12/2014 - 30/06/2015

Internship at the Institute of Genetics and Biophysics

Institute of Genetics and Biophysics "Adriano Buzzati Traverso" – CNR

Via Pietro Castellino 111, 80131, Napoli, Italy

- **Main activities and responsibilities:** Main molecular biology laboratory techniques: RNA extraction from tissue, reverse transcription (RT), DNA amplification (PCR).
- **Skills and objectives achieved:** team work, technical-professional skills, time management, graphic presentation of results and presentation of the same.

Business or sector Professional, Scientific and Technical activities.

07/2011

Scientific high school diploma

Lice Scientifico Cristoforo Colombo, Marigliano (NA), Italy

PERSONAL SKILLS

Mother tongue(s) Italian

Other language(s)

Replace with language

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
B1	B1	B1	B1	B1
Inglese INGLESE LIVELLO B1+ (IDONEITA') - [1005444], Università di Parma, 14 Set 2017, Livello europeo B1				

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
[Common European Framework of Reference for Languages](#)

Communication skills

- good communication skills gained through my working experience in various laboratory teams.
- good communication skills acquired through my work experience in the catering sector (pubs, bars and restaurants)

Organisational / managerial skills

- good organisational ability achieved through my working experience in various laboratory teams
- good organisational skills gained through teamwork during my studies

Job-related skills

Techniques learned: suspension and adhesion Cell cultures, PCR, RT-PCR, qRT-PCR, gel electrophoresis, SDS-PAGE, Western Blot, RNA/DNA extraction from tissue and cell lines, Proteins extraction from cell lines, Gene silencing by siRNA, transfections of expression plasmids in tumor cell lines, transformation of bacteria, construction of expression plasmids, analysis of site-specific methylations (CpG islands).

Digital skills

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	Independent user

Levels: Basic user - Independent user - Proficient user
[Digital competences - Self-assessment grid](#)

- good command of Microsoft Word, Excel, Powerpoint, Office, Outlook, Zoom, Skype, ImageJ, SnapGene, GraphPad (Prism)

Other skills

- Strong interest for science studies mainly concerning immunology, microbiology, virology, cancer and for molecular biology and genetic techniques.
- Drawing, painting, singing

Driving licence B

ADDITIONAL INFORMATION

Publications

Regulation of microRNAs in Satellite Cell Renewal, Muscle Function, Sarcopenia and the Role of Exercise (2020)

Fochi, S.; Giurato, G.; De Simone, T.; Gomez-Lira, M.; Tamburin, S.; Del Piccolo, L.; Schena, F.; Venturelli, M.; Romanelli, M.G. *Int. J. Mol. Sci.* **2020**, *21*, 6732.

<https://doi.org/10.3390/ijms21186732>

5AZA and decitabine exhibit different molecular effects on non-Hodgkin lymphoma cells: Involvement of DNMT3a (2019)

R. Frazzi, T. De Simone, O. Serra, A. Buschini, L. Canovi, T. De Luca, F. Merli

<https://books.google.it/books?id=2CePDwAAQBAJ&pg=PT2880&dq=%235198+5AZA+and+decitabine+exhibit+different+molecular+effects+on+non-Hodgkin+lymphoma+cells:+Involvement+of+DNMT3a.&hl=it&sa=X&ved=2ahUKEwi7w5aSnanuAhX7isMKHc9JB0AQ6AEwAHoECAAAQAg#v=onepage&q=%235198%205AZA%20and%20decitabine%20exhibit%20different%20molecular%20effects%20on%20non-Hodgkin%20lymphoma%20cells%3A%20Involvement%20of%20DNMT3a.&f=false>

SPG20 (Spartin) promoter methylation identifies tumor B lymphocytes (2018)

Raffaele Frazzi, Tonia De Simone, Mariaelena Pistoni and Francesco Merli

https://scholar.google.com/scholar?cluster=11384023997113890886&hl=it&as_sdt=0,5&scioldt=0,5