

CURRICULUM VITAE

Michela Serena



Personal information

First name	Michela
Surname	Serena
e-mail	michela3serena@gmail.com
Date of birth dd/mm/yy	29.12.1987

Work experience

- Date From 1st of July 2015 - until now
- Qualification Post-Doctoral fellowship.
Molecular Virology Laboratory, Department of Neurological, Biomedical and Movement Sciences, University of Verona, Italy.
- Occupational skills covered I am studying the interactions between retroviral proteins (of HIV-1, HTLV-1 and -2) and host proteins in order to understand the virus infective mechanisms, using molecular biology, cell biology, biochemical and bioinformatic techniques, as well as developing CRISPR/Cas9-mediated knock-out cell lines.

Education and Training

- Date January 2012 – December 2014
- Qualification awarded PhD in Bioscience (PhD School in Life and Health Science, University of Verona, Italy).
Molecular Virology Laboratory, Life Science and Reproduction Department, University of Verona, Italy.
- Principal subjects and occupational skills covered During my PhD I studied the interactions between HIV-1 Env and HLA-C and between HIV-1 Nef and the human thioesterase 8 (ACOT8).

- Date October 2009 – October 2011
- Title of qualification awarded Master degree in Molecular Biology (University of Padua, Italy).
Graduated with 110 and honours.
- Principal subjects Molecular biology, Genomics, Genetics, Development molecular biology, Cell biology, Biochemistry.
 - I won the Erasmus scholarship for a stage of ten months at the Cell Therapy Laboratory CEIB (University of Murcia, Spain) to get the final thesis entitled “Cell therapy for haemophilia A: transplant of human amniotic mesenchymal stromal cells in a murine model of factor VIII deficiency”.

- Date October 2006 – October 2009
- Title of qualification awarded Bachelor degree in Molecular Biology (University of Padua, Italy).
Graduated with 109/110 mark.
- Principal subjects
 - I joined the Genomics Laboratory CRIBI (University of Padua, Italy) for three months, to get the final thesis entitled “cDNA preparation for metatranscriptomic analysis”.

- Date September 2001 – June 2006
- Title of qualification awarded Science High School diploma
Bagatta Scientific Lyceum (Desenzano del Garda, Brescia, Italy).
 - I won the “Massimo Marchese” award for the best student/athleta of the School.
 - I won the “Un Pallone X Amico” contest for designing a slogan against violence and aggressiveness during sportive events (Brescia, 21th of April, 2004).

Personal skills and competences

- Mother tongue Italian
- Other languages English and Spanish

Organizational skills and competences

During my career I have been studied with passion, working with dedication and ambition, demonstrating excellent knowledge in molecular and cellular biology. I have been developed a great organizational skill and critical sense, contributing to different research projects with new ideas and suggestions.
During my experience, I have trained several undergraduate and PhD students (University of Verona).

Technical skills and competences*Molecular Biology:*

CRISPR/Cas9 engineering, cloning, nucleic acid extraction, PCR, RT-PCR.

Cell Biology:

Cell culture, transfection, nucleofection, serum free cell culture, cell cytometry, cell sorting.

Virology and Microbiology:

Bacterial culture, pseudovirus production and titration.

Immunological techniques:

Western blot, ELISA assay, immunofluorescence, Co-IP.

Biochemistry:

Production and purification of humanized antibodies and recombinant proteins.

Others:

Confocal microscopy and data analysis with ImageJ software.

Mice models handling and microsurgery, in vivo perfusion, cutting tissue sections using the microtome.

Sequence analysis and usage of bioinformatic tools.

Attended seminars

“Santa Cruz CRISPR Webinar” on 31st of March, 2015.

Certificate of attendance to courses for working in a GMP environment (Gradocell S.L.)

Other skills and competences

Lifeguard certification

Swimming Instructor certification

I swam for about 20 years with excellent results at regional and national level. Discipline: 100m e 200m breaststroke.

Driving licence

B driving licence (for cars).

PUBLICATIONS

Serena M., Parolini F., Giorgetti A., Busato M., Gasparini F., Diani E., Romanelli M.G., Zipeto D. *In silico structural prediction and in vitro functional validation to identify the ACOT8 regions involved in the interaction with HIV-1 Nef*. Abstract presented at the “27th Workshop of Retroviral Pathogenesis”, presso “Die Wolfsburg”, Mulheim an Der Ruhr, Germany.

Serena M., Gasparini F., Astone D., Calligaris G., Muddei M., Giorgetti A., Zipeto D.: “*Human Thioesterase 8 and HIV-1 Nef interactions: insights from in silico predictions and in vitro assays*”. *Journal of Acquired Immune Deficiency Syndromes*. Vol. 67: 90. P-D9. doi: 10.1097/01.qai.0000456198.95066.e2 (2014) ISSN 1525-4135.

Serena M. et al. *Molecular characterization of HIV-1 Nef and ACOT8 interaction: insights from in silico structural predictions and in vitro functional assays*. Submitted manuscript.

Serena M., Astone D. et al. *Alternative and mutually exclusive assembly of HLA-C with β 2-microglobulin and HIV-1 Env*. Manuscript in preparation.

Verona, 16.11.15