

CURRICULUM VITAE | VALENTINA ALEOTTI

PERSONAL INFORMATION

PERSONAL PROFILE/STATEMENT

I graduated in 2015 in Biology and I am eager to gain experience in the field of molecular biology. I'm continuing my academic education with a PhD in Molecular Medicine and Pharmacology at the University of Ferrara, in order to develop my personal knowledge in Molecular Biology and professional skills

EDUCATION AND TRAINING

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| 2016-today | PhD student in MOLECULAR MEDICINE AND PHARMACOLOGY <i>Dept. Biomedical and Specialty Surgical Sciences, University of Ferrara</i> <u>Medical Genetics Research Lab</u> Tutor: Prof Michele Rubini |
| 2013-2015 | Master in BIOMOLECULAR AND CELLULAR SCIENCES, <i>110/110 cum laude</i> <i>University of Ferrara</i> Thesis title: "Diagnosis of aneuploidy in abortive tissue" (field: Medical cytogenetic) The principal subjects are microbiology, molecular biology, biochemistry, human physiology, bioinformatics |
| 2010-2013 | Bachelor's Degree in BIOLOGICAL SCIENCES, <i>100/110</i> <i>University of Ferrara</i> Thesis title: "Regulation of the activity of P5C reductase in <i>A.thaliana</i> " (field: Plant physiology) The main subjects are biology, ecology, microbiology, chemistry, math, physics, zoology, biostatistic, human anatomy, pharmacology |
| 2005-2010 | SCIENTIFIC HIGH SCHOOL DIPLOMA <i>High school "A.Roiti", Ferrara</i> I learned how to apply the scientific method focusing on biology, chemistry, physics, math. |

WORK EXPERIENCE

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|---------------------|---|
| 11/2016- today | PhD student at the Medical Genetics Research Lab. Dept. Biomedical and Specialty Surgical Sciences University of Ferrara Tutor: Prof Michele Rubini I work on pregnancy's pathologies, in particular on Cleft and Miscarriage. |
| 01/2016- 10/2016 | Internship at the Medical Genetics Research Lab. Dept. Biomedical and Specialty Surgical Sciences University of Ferrara Tutor: Prof Michele Rubini I learned molecular genetic techniques. |
| 03/2015- 12/2015 | Training at the Medical Cytogenetic Lab. Dept. Biomedical and Specialty Surgical Sciences University of Ferrara Tutor: Dr. Vincenzo Aiello I learned to develop protocols, capacity of planning activities |
| 03/2013- 07/2013 | Training at Laboratory Plant Physiology University of Ferrara This training taught me how to formulate hypotheses and how to work either independently and as an active part of a team |

PERSONAL SKILLS:

Languages

- Italian (Mother tongue)
- English (FIRST certification of 28/11/2017 with Level B1)

Communication skills

I gained good communication skills through my experience as a swimming instructor and librarian. I am sociable, friendly and **hardworking person**. I like working in team and sharing my opinion.

Organisational / managerial skills

My previous jobs helped me learn how to manage people, organize my time and work with people in harmony. Furthermore, my recent training in Medical Genetics made me develop as an independent and determined researcher, capable of achieving self-made goals and improving personal reasoning. I am a quick learner with a strong sense of responsibility.

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Job-related skills

- Biomolecular techniques: PCR, Real Time-PCR, QF-PCR, Pyrosequencing, FISH analyses and polyacrylamide gel electrophoresis.
- Biochemistry techniques: HPLC, column chromatography, enzyme assays.
- Medical genetics techniques: reading genomic sequences from electropherograms, writing of medical report for medical genetics.
- Usage of common cell laboratory equipment and instruments, such as: laminar flow hood, centrifuges, pH-meter, optical microscope, incubator, spectrophotometer.
- Processing of peripheral blood
- Extraction of DNA from blood, culture cells and tissues (lip tissues, interface, decidua, CVS) with different kit of extraction.
- Techniques of classical cytogenetic.
- Cellular culture.
- Histological techniques: fixation and inclusion with paraffin of tissues, hematoxylin-eosin staining.

Computer skills

- Good command of Microsoft Office tools (Power point, Word, Excel)
- Basic knowledge of Adobe Photoshop
- Good command of web-based genomic database (Pubmed, Uniprot, ecc)
- Good command of software R studio
- Basic knowledge of GeneMapper and CitoVision software
- Good command of operating systems Linux, Windows and IOS

Hobbies and personal interests

In my free time I like doing sports. I am a volunteer at the animal shelter. I love visiting museums and art exhibitions.

Additional information

I am **willing to travel** and relocate abroad. Driving licence (type B), car owner. I worked as swimming instructor and librarian.

Educational Workshop:

- Participation at workshop " EXPERIMENTAL DESIGN" of Dr. Derek Fry, OBE, MA, D Phil, MB BCh, Faculty of Life Sciences, University of Manchester, Independent Researcher Professional St Georges Consultancy (UK). Workshop placed at University of Ferrara on 7 and 8 June 2016.
- Software Carpentry Workshop, February 11-12, 2019, Naples, Italy
- "Introduzione all'utilizzo di R!" of Dr.ssa Julie Arnaud. 16-17 April 2019, Ferrara, Italy

Conferences and lectures:

- Lecture at conference “3° Giornata Mondiale della Sjögren”. Dr.ssa Aleotti Valentina, 22-23 July 2017-Salerno, Italy.
- Lecture at conference “Folate genetics and clinical outcome” Prof. Michele Rubini/ Dr. Aleotti Valentina, 03/03/2017, University of Ferrara, Ferrara, Italy.
- Capucci R., Brasile O., Graziano A., Poggi A., Bassi Andreasi R., Aleotti V., Ravaei A., Khan MFJ., Aiello V., Astolfi G., Rubini M. Maternal and embryo’s MTHFR genotypes influence the risk of spontaneous abortion. Congresso Nazionale Agorà SIMP, 22-24 March 2018, Catania, Italy
- Lecture at conference “Epigenetics of recurrent miscarriage: analysis of global DNA methylation in embryo’s chorionic villi and maternal blood”. Dr.ssa Aleotti Valentina, 24/05/2019, University of Ferrara, Ferrara, Italy.

Tutoring activities:

- Tutor for student in Biomedical laboratory technician, University of Ferrara.
- Tutor in Medical Genetics for Biomedical laboratory technician, dental care, dietician and radiology technician, department of Medicine, University of Ferrara (2017-today)
- Assistant supervisor thesis “Association between MTHFR genotype and the risk of spontaneous abortion”, Mara Sanapo. October 2016, Ferrara, Italy.
- Assistant supervisor thesis “Genetica ed epigenetica di MTHFR nell’interazione materno-fetale in casi di abortività spontanea”, Martina Bonsi. November 2017, Ferrara, Italy.

Publications:

1. Khan MFJ, Little J, Aleotti V, Mossey PA, Steegers-Theunissen RPM, Autelitano L, Meazzini MC, Ravaei A, Rubini M. “LINE-1 methylation in cleft lip tissues: influence of infant MTHFR c.677C>T genotype”. Oral Diseases (IF 2.31) PMID: 31161688

I authorise the handling of my personal data according to the Italian Legislative Decree num. 196/2003 Ferrara, 16/07/2019