



Alessandro Gatti

CURRICULUM VITAE

PERSONAL INFORMATION

Place of Birth: Fidenza (PR), Italy
Date of Birth: October 11th, 1988.
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Nationality: Italian

ACCADEMIC EDUCATION

PhD in Biomedical, Clinical and Experimental Sciences (2014 – to date)

Scholarship for the PhD programme at the University of Verona

Master degree in Industrial and Molecular Biotechnology (2010-2013)

19/07/2013. Graduated with 110/110 with honours (3.9 GPA corresponding to average mark to 29.1). Title of “Master Degree” University of Bologna, Italy.

Thesis Title: Study of the role of the Polycomb complexes in homeostasis of the intestinal crypt.

Supervisor: Dr. Diego Pasini, Department of Experimental Oncology. Epigenetic mechanisms in stem cell differentiation and oncogenesis laboratory. European Institute of Oncology (IEO) Milano.

Thesis relator: Prof. Laura Bonisi, Department of Medicine (DIMES). Biotechnology of human stem cells laboratory. University of Bologna, Italy.

Bachelor degree in Biotechnology (2007-2010)

15/09/2010. Graduated with 109/110. Title of “Bachelor Degree”
University of Parma, Italy.

Thesis Title: Analysis of the effect induced by the GLR1 gene over-expression on yeast strain having Succinate Dehydrogenase impairments.

Supervisor and thesis relator: Prof.ssa Paola Goffrini, Institute of Genetics, University of Parma, Italy.

Diploma in industrial chemistry (2002-2007)

2007. Diploma at Technical institute “*A. Berenini*” Fidenza, Parma, Italy.

RESEARCH EXPERIENCE AND TRAINING

Undergraduate student at European Institute of Oncology (IEO), Milan: May 2012-May 2013

Project: “Study of the role of the Polycomb complexes in homeostasis of the intestinal crypt”.

In this project, under the supervision of **Dr. Diego Pasini**, I used a mouse model *in vivo* and basic techniques of cell biology, and molecular biology on the intestinal stem cells combined with the RNA high throughput next-generation sequencing (RNA-seq) and FACS (fluorescence activated cell sorting).

Internship training at Institute of Genetics, University of Parma. April-July 2010

Project: “Analysis of the effect induced by the GLR1 gene over-expression on yeast strain having Succinate Dehydrogenase impairments”.

In this project, under the supervision of Prof.ssa Paola Goffrini, I learned basic techniques of gene cloning and microbiology, using *E. Coli* and budding yeast *Saccharomyces cerevisiae*

LANGUAGE SKILLS

Certificate Level: ENGLISH B2-Upper Intermediate Level (November 2013)
“Cairns Language Centre” Cairns (Australia)
I stayed in Australia for 4 months (October 2013- January 2014)

TECHNIQUES SKILLS

Animal model:

Handle wild type, transgenic and immunodeficient mice.
Intraperitoneal and tail vein injection, retro-orbital blood collection, intra-cardiac puncture, necropsy and collection of organs including bone marrow.

Techniques of Cell Biology:

Mouse Embryonic Stem Cells culture. Mesenchymal Stem Cells isolation from bone marrow and culture, yeast culture, PBMCs isolation from buffy coat, HSC (CD34+) isolation, Isolation of immune cell subpopulation (T cells, B cells, NK cells, T regulatory cells), Optical and Fluorescent microscopy, Multicolour Flow Cytometry (FACS). Immunological assays including cell proliferation analysis and immunogenicity.

Techniques of Biochemistry and Molecular Biology:

Expression of recombinant proteins in bacteria and yeast, SDS-PAGE, western blot, immune-fluorescence, RNA and DNA extraction, electrophoresis and restriction analysis, RNA and DNA purification, PCR and genotyping, qRT-PCR, ChIP (Chromatin-IP).

Techniques of Microbiology:

Preparation of medium for the growth of *E. Coli* and yeast and for the selection of transformants.

Techniques of Bioinformatics:

Nucleotide and protein sequences analysis and alignments, database researches. Software for molecular analysis: Rasmol, SwissPDB, GraphPad, Flow Jo, Diva.

Abstracts

NOTCH SIGNALLING INHIBITION AS A MULTI-TARGET THERAPY TO OVERCOME BONE MARROW MICROENVIRONMENT-MEDIATED DRUG RESISTANCE IN AML. P

Takam Kamga*, G Bassi, A Cassaro, A Adamo, A Gatti, G Dal Collo, M Midolo, R Carusone, M Di Trapani, M Bonifacio, M Krampera. EHA 21. haematologica | 2016; 101(s1) | 207

DEVELOPMENT OF A XENOGENIC- α GVHD MOUSE MODEL TO ACHIEVE AN *IN VIVO* hBM-MS-C-BASED IMMUNE-THERAPY

Gatti A, Bassi G, Midolo M, Carusone R, Di Trapani M, Takam P, Mercuri A, Adamo A, M Krampera. PhD Day. 2016 Jan 29.

Publications

DIFFERENTIAL AND TRANSFERABLE MODULATORY EFFECTS OF MESENCHYMAL STROMAL CELL-DERIVED EXTRACELLULAR VESICLES ON T, B AND NK CELL FUNCTIONS.

Di Trapani M, Bassi G, Midolo M, Gatti A, Kamga PT, Cassaro A, Carusone R, Adamo A, M Krampera. Sci Rep. 2016 Apr 13;6:24120.

NOTCH SIGNALLING DRIVES BONE MARROW STROMAL CELL-MEDIATED CHEMORESISTANCE IN ACUTE MYELOID LEUKEMIA.

Takam Kamga P, Bassi G, Cassaro A, Midolo M, Di Trapani M, Gatti A, Carusone R, Resci F, Perbellini O, Gottardi M, Bonifacio M, Nwabo Kamdje AH, Ambrosetti A, M Krampera. Oncotarget. 2016 Mar 7.

I authorise the use of my personal data in compliance with Legislative Decree 196/03.