

EUROPEAN
CURRICULUM VITAE
FORMAT



PERSONAL INFORMATION

Name
Address
Telephone
Fax
E-mail

SIMONETTI, GIORGIA

Nationality
Date of birth

Italian

Tax Code

SMNGRG84H61C573J

giorgia.simonetti@irst.emr.it

WORK EXPERIENCE

- Dates (from – to)
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

From November 2018 – present

Istituto Scientifico Romagnolo per lo Studio e la Cura dei Tumori (IRST) Srl – IRCCS, via Piero Maroncelli, 40 - 47014 Meldola (FC), Italy

IRCCS, Research Institution

Biologist

Coordinator of the Immunology and Hematology Unit

- Dates (from – to)
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

From July 2013 – to October 2018

Department of Experimental, Diagnostic and Specialty Medicine, Institute of Hematology "L. e A. Seràgnoli", via Massarenti, 9 – 40138, Bologna, Italy

Research Institution

Post Doctoral Fellow

Molecular mechanisms of Acute Myeloid Leukemia

- Dates (from – to)
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

From January 2013 - to June 2013

Division of Molecular Oncology, San Raffaele Scientific Institute, via Olgettina, 58 – 20132, Milano, Italy

Research Institution

Post Doctoral Fellow

Role of SIGLEC-G/SIGLEC10 in B lymphoid malignancies

- Dates (from – to)
- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

From October 2010 - to December 2012

Herbert Irving Comprehensive Cancer Center, Columbia University, 1130 St Nicholas Ave, New York, NY - 10032, USA

Research Institution

PhD student (October 2010 – April 2012), Post Doctoral Fellow (April 2012 – December 2012)

Role of Interferon Regulatory Factor 4 (IRF4) in mature B cell development and malignancy

- Dates (from – to)

From January 2009 – to September 2010

- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

Division of Molecular Oncology, San Raffaele Scientific Institute, via Olgettina, 58 – 20132, Milano, Italy
Research Institution
PhD student
Study of the pathogenesis of B lymphoid malignancies using mouse models

- Dates (from – to)

From October 2008 – to December 2008

- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

Division of Molecular Oncology, San Raffaele Scientific Institute, via Olgettina, 58 – 20132, Milano, Italy
Research Institution
Research fellow
Study of the pathogenesis of chronic lymphoproliferative diseases using mouse models

- Dates (from – to)

From September 2007 – to September 2008

- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

Division of Molecular Oncology, San Raffaele Scientific Institute, via Olgettina, 58 – 20132, Milano, Italy
Research Institution
Intern
In vivo models of chronic B lymphoid malignancies: molecular and functional characterization

- Dates (from – to)

From April 2006 – to July 2006

- Name and address of employer
- Type of business or sector
- Occupation or position held
- Main activities and responsibilities

Department of Oncology, "Rizzoli" Orthopaedic Institute, Via Giulio Cesare Pupilli, 1 – 40136, Bologna, Italy
Research Institution
Intern
Identification of potential biomarkers for sarcoma of bone using comparative proteomics analysis

EDUCATION AND TRAINING

- Dates (from – to)

From 2009 to 2012

- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

University of Milano Bicocca, Milano, Italy
PhD in Molecular and Translational Medicine
PhD degree

- Dates (from – to)

From 2006 to 2008

- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

Vita-Salute San Raffaele University, Milano, Italy
Degree in Medical, Molecular, and Cellular Biotechnology
Master's degree

- Dates (from – to)

From 2003 to 2006

- Name and type of organisation providing education and training
- Principal subjects/occupational skills covered
- Title of qualification awarded

"Alma Mater Studiorum" University of Bologna, Italy
Degree in Biotechnology,
Bachelor's degree

**PERSONAL SKILLS
AND COMPETENCES**

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

ENGLISH

- Reading skills
- Writing skills
- Verbal skills

VERY GOOD

VERY GOOD

VERY GOOD

**SOCIAL SKILLS
AND COMPETENCES**

Prolonged experience abroad in a multicultural setting and great skills in working together with other people.

**ORGANISATIONAL SKILLS
AND COMPETENCES**

Great capacity of interacting with people, of keep contacts with international scientific groups and of organizing the work. Experience in coordination of team work.

**TECHNICAL SKILLS
AND COMPETENCES**

Molecular biology (DNA/RNA extraction, PCR/RT-PCR, qPCR, cloning); biochemistry (immunoprecipitation, immunoblot, immunohistochemistry, immunofluorescence); cell biology (flow cytometry, cell culture, cell transfection and infection); animal handling and necropsy; bioinformatics (Immunoglobulin gene analysis using bioinformatic tools); computer competences (Office: Word, Excel, PowerPoint; Adobe: Photoshop, Illustrator; GraphPad Prism; softwares to design PCR primers and probes).

**ARTISTIC SKILLS
AND COMPETENCES**

NOT APPLICABLE.

**OTHER SKILLS
AND COMPETENCES**

Experience in research projects and grant writing.

DRIVING LICENCE(S)

Yes.

ADDITIONAL INFORMATION

- Associate Editor of the journal *Hematology Reports*.
- Reviewer activity: *Leukemia*, *BioMed Research International*, *Hematology Reports*, *International Journal of Cancer*.
- Project reviewer : Associazione Damiano per l'Ematologia, European Hematology Association.

ANNEXES

1. List of fellowships, grants and awards
2. Research project collaborations.
2. List of peer-reviewed scientific publications

Meldola, March 18th, 2019

Giorgia Simonetti
Giorgia Simonetti, PhD

1. FUNDINGS AND AWARDS

- June 2010: Study award in support of research experiences in a foreign country, Fondazione Cariplo.
- Oct 2011: Travel grant, Fondazione Cariplo to attend the *53rd ASH Annual Meeting and Exposition* (December 2011).
- Oct 2011: Award for best poster at XIV iwCCLL, October 28-30, 2011, Houston, Texas, USA.
- Aug - Oct 2012: American-Italian Cancer Foundation Post-Doctoral Research Fellowship.
- June 2013: Award for best PhD thesis in onco-hematology, Premio Giuseppe Bigi 2013. Thesis title: "B lymphoid malignancies: insights from mouse models", discussed in March 2012.
- July 2014: Travel grant, *XIII Congresso Nazionale della Società Italiana di Ematologia Sperimentale*, October 15-17, 2014.
- Dec 2014: ASH Abstract Achievement Award, *56th ASH Annual Meeting*, December 4-9, 2014, San Francisco, California, USA.
- Mar 2015 – Jan 2019: Non-Clinical junior research fellowship from European Hematology Association (EHA).
- Nov 2015: Award "ALFREDO SAIARDI" 2015 to the best project dissecting the molecular mechanisms of malignant transformation and progression.
- June 2016: Travel grant, *21st EHA congress*, June 9-12, 2016, Copenhagen, Denmark.
- July 2016: Travel grant, *XIII Congresso Nazionale della Società Italiana di Ematologia Sperimentale*, October 19-21, 2016, Rimini, Italy.
- Jan 2018 – Present : Alma Idea Junior Research Grant, University of Bologna (Principal Investigator)

2. RESEARCH PROJECT COLLABORATIONS

- Collaborator: NIH R21 - Ulf Klein, 2013-2014.
- Technical Committee and writing committee member: tissue protocol Genomics, Metabolomics, Transcriptomics and in vitro Pharmacological Response Study on Hematological Malignancies" – HEMAOMICS (2015-present).
- Collaborator: AIRC Investigator Grant - G. Martinelli, 2017-2019.
- Collaborator: My First AIRC Grant - S. Rapino, 2017-2019.
- Co-Principal Investigator : Research project in AML, supported by Celgene, 2018- 2021.

3. SCIENTIFIC PUBLICATIONS

- **Simonetti G**, Bruno S, Padella A, Tenti E, Martinelli G. Aneuploidy: Cancer strength or vulnerability? *International Journal of Cancer* 2019; 144(1):8-25.
- **Simonetti G***, Padella A*, do Valle IF, Fontana MC, Fonzi E, Bruno S, Baldazzi C, Guadagnuolo V, Manfrini M, Ferrari A, Paolini S, Papayannidis C, Marconi G, Franchini E, Zuffa E, Laginestra MA, Zanotti F, Astolfi A, Iacobucci I, Bernardi S, Sazzini M, Ficarra E, Hernandez JM, Vandenberghe P, Cools J, Bullinger L, Ottaviani E, Testoni N, Cavo M, Haferlach T, Castellani G, Remondini D, Martinelli G. Aneuploid acute myeloid leukemia exhibits a signature of genomic alterations in the cell cycle and protein degradation machinery. *Cancer* 2019; 125(5):712-725.
- do Valle IF*, Menichetti G*, **Simonetti G***, Bruno S, Zironi I, Durso SF, Mombach JCM, Martinelli G, Castellani G, Remondini D. Network integration of multi-tumour omics data suggests novel targeting strategies. *Nat. Commun.* 2018; 9(1):4514.
- Tenti E, **Simonetti G**, Bochicchio MT, Martinelli G. Main changes in European Clinical Trials Regulation (No 536/2014). *Contemporary CLinical Trials Communications* 2018; 1:99-101.
- Fontana MC, Marconi G, Feenstra JDM, Fonzi E, Papayannidis C, di Rorà AGL, Padella A, Solli V, Franchini E, Ottaviani E, Ferrari A, Baldazzi C, Testoni N, Iacobucci I, Soverini S, Haferlach T, Guadagnuolo V, Semerád L, Doubek M, Steurer M, Racil Z, Paolini S, Manfrini M, Cavo M, **Simonetti G***, Kralovics R*, Martinelli G*. Chromothripsis in acute myeloid leukemia: Biological features and impact on survival. *Leukemia* 2018; 32(7):1609-1620.
- Sanarico AG, Ronchini C, Croce A, Memmi EM, Cammarata UA, De Antoni A, Lavorgna S, Divona M, Giacobbe L, Melloni GEM, Brendolan A, **Simonetti G**, Martinelli G, Mancuso P, Bertolini F, Coco FL, Melino G, Pelicci PG, Bernassola F. The E3 ubiquitin ligase WWP1 sustains the growth of acute myeloid leukaemia. *Leukemia* 2018; 32(4):911-919.
- Daniele G, **Simonetti G**, Fusilli C, Iacobucci I, Lonoce A, Palazzo A, Lomiento M, Mammoli F, Marsano RM, Marasco E, Mantovani V, Quentmeier H, Drexler HG, Ding J, Palumbo O, Carella M, Nadarajah N, Perricone M, Ottaviani E, Baldazzi C, Testoni N, Papayannidis C, Ferrari S, Mazza T, Martinelli G, Storlazzi CT. Epigenetically induced ectopic expression of UNCX impairs the proliferation and differentiation of myeloid cells. *Haematologica* 2017; 102(7):1204-1214.
- do Valle IF, Giampieri E, **Simonetti G**, Padella A, Manfrini M, Ferrari A, Papayannidis C, Zironi I, Garonzi M, Bernardi S, Delledonne M, Martinelli G, Remondini D, Castellani G. Optimized pipeline of MuTect and GATK tools to improve the detection of somatic single nucleotide polymorphisms in whole-exome sequencing data. *BMC Bioinformatics* 2016; 17(Suppl 12):341.
- Marconi C, Canobbio I, Bozzi V, Pippucci T, **Simonetti G**, Melazzini F, Angori S, Martinelli G, Saglio G, Torti M, Pastan I, Seri M, Pecci A. 5'UTR point substitutions and N-terminal truncating mutations of ANKRD26 in acute myeloid leukemia. *J Hematol Oncol.* 2017; 10(1):18.
- Tenti E, Papayannidis C, Marconi G, Parisi S, **Simonetti G**, Paolini S, Sartor C, Ottaviani E, Testoni N, Martinelli G. Efficacy of Azacitidine in the treatment of adult patients aged 65 years or older with AML. *Expert Opin Pharmacother.* 2016; 17(18):2479-2486.
- Giordani G, Barraco M, Giangrande A, Martinelli G, Guadagnuolo V, **Simonetti G**, Perini G, Bernardoni R. The human Smoothened inhibitor PF-04449913 induces exit from quiescence and loss of multipotent Drosophila hematopoietic progenitor cells. *Oncotarget* 2016; 23;7(34):55313-55327.
- Trino S, Iacobucci I, Erriquez D, Laurenzana I, De Luca L, Ferrari A, Di Rorà AG, Papayannidis C, Derenzini E, **Simonetti G**, Lonetti A, Venturi C, Cattina F, Ottaviani E, Abbenante MC, Russo D, Perini G, Musto P, Martinelli G. Targeting the p53-MDM2 interaction by the small-molecule MDM2 antagonist Nutlin-3a: a new challenged target therapy in adult Philadelphia positive acute lymphoblastic leukemia patients. *Oncotarget* 2016; 7(11):12951-61.
- Galletti G, Scielzo C, Barbaglio F, Rodriguez TV, Riba M, Lazarevic D, Cittaro D, **Simonetti G**, Ranghetti P, Scarfò L, Ponzoni M, Rocchi M, Corti A, Anselmo A, van Rooijen N, Klein C, Ries CH, Ghia P, De Palma M, Caligaris-Cappio F, Bertilaccio MT. Targeting Macrophages Sensitizes Chronic Lymphocytic Leukemia to Apoptosis and Inhibits Disease Progression. *Cell Rep.* 2016; 4(7):1748-60.
- Zuffa E, Franchini E, Papayannidis C, Baldazzi C, **Simonetti G**, Testoni N, Abbenante MC, Paolini S, Sartor C, Parisi S, Marconi G, Cattina F, Bochicchio MT, Venturi C, Ottaviani E, Cavo M, Martinelli G.

Revealing very small FLT3 ITD mutated clones by ultra-deep sequencing analysis has important clinical implications in AML patients. *Oncotarget* 2015; 6(31): 31284-94.

- Voso MT, Fabiani E, Zang Z, Fianchi L, Falconi G, Padella A, Martini M, Li Zhang S, Santangelo R, Larocca LM, Criscuolo M, La Brocca A, Cutcutache I, Rozen S, **Simonetti G**, Manfrini M, Martinelli G, Hohaus S, Leone G, Tan P, Tenen DG. Fanconi anemia gene variants in therapy-related myeloid neoplasms. *Blood Cancer J.* 2015; 5:e323.
- **Simonetti G**, Bertilaccio MTS, Ghia P, Klein U. Mouse models in the study of chronic lymphocytic leukemia pathogenesis and therapy. *Blood* 2014; 124(7):1010-9.
- Heise N, De Silva NS, Silva K, Carette A, **Simonetti G**, Pasparakis M, Klein U. Germinal center B-cell maintenance and differentiation are controlled by distinct NF- κ B transcription factor subunits. *The Journal of Experimental Medicine* 2014; 211(10):2103-18.
- **Simonetti G***, Bertilaccio MTS*, Veliz Rodriguez T, Apollonio B, Dagklis A, Rocchi M, Innocenzi A, Casola S, Winkler TH, Nitschke L, Ponzoni M, Caligaris-Cappio F, Ghia P. SIGLEC-G deficiency increases susceptibility to develop B cell lymphoproliferative disorders. *Haematologica* 2014; 99(8):1356-64.
- **Simonetti G**, Carette A, Silva K, Wang H, De Silva NS, Heise N, Siebel CV, Shlomchik MJ, Klein U. IRF4 controls the positioning of mature B cells in the lymphoid microenvironments by regulating NOTCH2 expression and activity. *The Journal of Experimental Medicine* 2013; 210(13):2887-902.
- Ochiai K*, Maienschein-Cline M*, **Simonetti G**, Chen J, Rosenthal R; Brink R, Chong, AS, Klein U, Dinner AR, Singh H, Sciammas R. Distinct modes of IRF4 action orchestrate the germinal center and plasma cell fates of activated B cells. *Immunity* 2013; 38(5):918-929.
- Bertilaccio MT, Scielzo C, **Simonetti G**, Ten Hacken E, Apollonio B, Ghia P, Caligaris-Cappio F. Xenograft models of chronic lymphocytic leukemia: problems, pitfalls and future directions. *Leukemia* 2013; 27(3):534-540.
- De Silva N, **Simonetti G**, Heise N, Klein U. The diverse roles of IRF4 in late germinal center B cell differentiation. *Immunol Reviews* 2012; 247(1):73-92.
- Bertilaccio MT, **Simonetti G**, Dagklis A, Rocchi M, Veliz Rodriguez T, Apollonio B, Mantovani A, Ponzoni M, Ghia P, Garlanda C, Caligaris-Cappio F, Muzio M. Lack of TIR8/SIGIRR triggers progression of chronic lymphocytic leukemia in mouse models. *Blood* 2011; 118(3):660-669.
- Scielzo C*, Bertilaccio MT*, **Simonetti G**, Dagklis A, ten Hacken E, Fazi C, Muzio M, Caiolfa V, Restuccia U, Bachi A, Rocchi M, Ponzoni M, Ghia P, Caligaris-Cappio F. HS1 has a central role in the trafficking and homing of leukemic B cells. *Blood* 2010; 116(18):3537-3546.
- Bertilaccio MT, Scielzo C, **Simonetti G**, Ponzoni M, Apollonio B, Fazi C, Scarfò L, Rocchi M, Muzio M, Caligaris-Cappio F, Ghia P. A novel *Rag2*^{-/-} γ _c^{-/-}-xenograft model of human CLL. *Blood* 2010; 115(8):1605-1609.
- Muzio M, Bertilaccio MT, **Simonetti G**, Frenquelli M, Caligaris-Cappio F. The role of Toll-like receptors in chronic B malignancies. *Leukemia and Lymphoma* 2009; 50(10):1573-1580.