

CURRICULUM VITAE

PERSONAL INFORMATION

Surname / First name RONCHETTI Domenica
E-mail domenica.ronchetti@unimi.it
Nationality Italian
Date of birth 21/04/1970
Gender Female

WORK EXPERIENCE

Date January 1995 – onwards
Name and address of employer University of Milan, c/o Fondazione IRCCS Ca' Granda Ospedale Maggiore Policlinico, via Francesco Sforza, 35 – 20122 MILAN, Italy
Type of business and sector Biomedical research
Type of occupation Graduated technician
Main Activities and responsibilities Analysis and cloning of chromosomal aberrations in multiple myeloma patients; analysis of genes, microRNA, and lncRNA expression profiling in multiple myeloma; functional characterization of specific genes, miRNAs and lncRNAs through their manipulation in cell lines.

EDUCATION AND TRAINING

Date January 1996 – July 1999
Attendance of CEE Specialization Course in Biochemistry and Clinical Chemistry - University of Milan.
Principal subjects/occupational skills Human genetics, medical genetics, molecular genetics, cytogenetics, statistics, clinical biochemistry, pathology, immunogenetics.
Title of qualification awarded Specialist in Biochemistry and clinical Chemistry – final grading 70/70 e lode. Thesis title “Analisi molecolare del gene “Fibroblast growth factor receptor 3 (FGFR3)” nella linea cellulare KMS18 e sua importanza nella patogenesi del mieloma multiplo”; lab: laboratory of hematology of Ospedale Maggiore Policlinico, Mangiagalli e Regina Elena, Milan.
Level in national classification Postgraduate diploma

Date November 1989- March 1995
Name and type of institute providing education or training University of Milan
Principal subjects/occupational skills Statistics, biomedical technologies, microbial biotechnologies, molecular biology, biochemistry, genetic engineering in experimental models, molecular mechanisms of disease, molecular medicine, experimental models in pathology.
Title of qualification awarded Magistral Doctor in Biological Sciences – Course of Study in Molecular Biology – Final grading: 110/110 e lode. Thesis title: “Analisi molecolare di riarrangiamenti cromosomici della regione 19p13 associati a leucemie linfoblastiche acute pediatriche”; laboratory of Human Genetics of the University of Milan; Prof. Sergio Ottolenghi.
Level in national classification Second level degree

PERSONAL SKILLS AND COMPETENCES

MOTHER TONGUE OTHER LANGUAGES

Italian
- English
▪ read: excellent
▪ written: good
▪ spoken: good

TECHNICAL SKILLS AND COMPETENCES-

Computer competences
Microsoft Office 2000 and XP
Consultation of bioinformatics websites.

- Laboratory-methods acquired
- Cultures of peripheral blood lymphocytes and of lymphoblastoid cell lines in sterility; freezing of lymphoblastoid cell lines.
 - Genomic DNA, total RNA and protein extraction.
 - Spectrophotometric evaluation of nucleic acids and proteins.
 - PCR, reverse transcription, RT-PCR.
 - Automatic sequencing of PCR fragments through Big Dye Terminator chemistry.
 - Quantitative RT-PCR (Q-RT-PCR) of various genetic transcripts through TaqMan chemistry (instrumentation ABI PRISM 7700 and 7900).
 - Cell lines cultures in sterility, freezing and thawing, transfection through electroporation and lipidic systems.
 - Western blotting.

GUIDE LICENCE Type A-B

ADDITIONAL INFORMATION

Publications:

Nobili L, **Ronchetti D**, Agnelli L, Taiana E, Vinci C, Neri A. Long Non-Coding RNAs in Multiple Myeloma. *Genes (Basel)*. 2018 Feb 1;9(2). pii: E69. doi: 10.3390/genes9020069. Review.

Stamato MA, Juli G, Romeo E, **Ronchetti D**, Arbitrio M, Caracciolo D, Neri A, Tagliaferri P, Tassone P, Amodio N. Inhibition of EZH2 triggers the tumor suppressive miR-29b network in multiple myeloma. *Oncotarget*. 2017 Nov 20;8(63):106527-106537. doi: 10.18632/oncotarget.22507. eCollection 2017 Dec 5.

Nobili L, **Ronchetti D**, Taiana E, Neri A. Long non-coding RNAs in B-cell malignancies: a comprehensive overview. *Oncotarget*. 2017 Apr 20;8(36):60605-60623. doi: 10.18632/oncotarget.17303. eCollection 2017 Sep 1. Review.

Bolzoni M, **Ronchetti D**, Storti P, Donofrio G, Marchica V, Costa F, Agnelli L, Toscani D, Vescovini R, Todoerti K, Bonomini S, Sammarelli G, Vecchi A, Guasco D, Accardi F, Palma BD, Gamberi B, Ferrari C, Neri A, Aversa F, Giuliani N. *IL21R* expressing CD14⁺CD16⁺ monocytes expand in multiple myeloma patients leading to increased osteoclasts. *Haematologica*. 2017 Apr;102(4):773-784. doi: 10.3324/haematol.2016.153841. Epub 2017 Jan 5.

Ronchetti D, Manzoni M, Todoerti K, Neri A, Agnelli L. In Silico Characterization of miRNA and Long Non-Coding RNA Interplay in Multiple Myeloma. *Genes (Basel)*. 2016 Nov 29;7(12). pii: E107.

Ronchetti D, Manzoni M, Agnelli L, Vinci C, Fabris S, Cutrona G, Matis S, Colombo M, Galletti S, Taiana E, Recchia AG, Bossio S, Gentile M, Musolino C, Di Raimondo F, Grilli A, Biciato S, Cortelezzi A, Tassone P, Morabito F, Ferrarini M, Neri A. lncRNA profiling in early-stage chronic lymphocytic leukemia identifies transcriptional fingerprints with relevance in clinical outcome. *Blood Cancer J*. 2016 Sep 9;6(9):e468. doi: 10.1038/bcj.2016.77.

Ronchetti D, Agnelli L, Taiana E, Galletti S, Manzoni M, Todoerti K, Musto P, Strozzi F, Neri A. Distinct lncRNA transcriptional fingerprints characterize progressive stages of multiple myeloma. *Oncotarget*. Mar 22;7(12):14814-30. doi: 10.18632/oncotarget.7442

Leotta M, Biamonte L, Raimondi L, **Ronchetti D**, Di Martino MT, Botta C, Leone E, Pitari MR, Neri A, Giordano A, Tagliaferri P, Tassone P, Amodio N. A p53-dependent tumor suppressor network is induced by selective miR-125a-5p inhibition in multiple myeloma cells. *J Cell Physiol*. 2014 Dec;229(12):2106-16.

Ronchetti D, Tuana G, Rinaldi A, Agnelli L, Cutrona G, Mosca L, Fabris S, Matis S, Colombo M, Gentile M, Recchia AG, Kwee I, Bertoni F, Morabito F, Ferrarini M, Neri A. Distinct patterns of global promoter methylation in early stage chronic lymphocytic leukemia. *Genes Chromosomes Cancer*. 2014 Mar;53(3):264-73.

Ronchetti D, Mosca L, Cutrona G, Tuana G, Gentile M, Fabris S, Agnelli L, Ciceri G, Matis S, Massucco C, Colombo M, Reverberi D, Recchia AG, Bossio S, Negrini M, Tassone P, Morabito F, Ferrarini M, Neri A. Small nucleolar RNAs as new biomarkers in chronic lymphocytic leukemia. *BMC Med Genomics*. 2013 Sep 3;6:27.

Ronchetti D, Todoerti K, Tuana G, Agnelli L, Mosca L, Lionetti M, Fabris S, Colapietro P, Miozzo M, Ferrarini M, Tassone P, Neri A. The expression pattern of small nucleolar and small Cajal body-specific RNAs characterizes distinct molecular subtypes of multiple myeloma. *Blood Cancer J*. 2012 Nov 23;2:e96.

Ria R, Todoerti K, Berardi S, Coluccia AM, De Luisi A, Mattioli M, **Ronchetti D**, Morabito F, Guarini A, Petrucci MT, Dammacco F, Ribatti D, Neri A, Vacca A. Gene expression profiling of bone marrow

endothelial cells in patients with multiple myeloma. *Clin Cancer Res.* 2009 Sep 1;15(17):5369-78.

Cassinelli G, **Ronchetti D**, Laccabue D, Mattioli M, Cuccuru G, Favini E, Nicolini V, Greco A, Neri A, Zunino F, Lanzi C. Concomitant downregulation of proliferation/survival pathways dependent on FGF-R3, JAK2 and BCMA in human multiple myeloma cells by multi-kinase targeting. *Biochem Pharmacol.* 2009 Nov 1;78(9):1139-47.

Bollati V, Fabris S, Pegoraro V, **Ronchetti D**, Mosca L, Deliliers GL, Motta V, Bertazzi PA, Baccarelli A, Neri A. Differential repetitive DNA methylation in multiple myeloma molecular subgroups. *Carcinogenesis.* 2009 Aug;30(8):1330-5. Epub 2009 Jun 16.

Lionetti M, Agnelli L, Mosca L, Fabris S, Andronache A, Todoerti K, **Ronchetti D**, Deliliers GL, Neri A. Integrative high-resolution microarray analysis of human myeloma cell lines reveals deregulated miRNA expression associated with allelic imbalances and gene expression profiles. *Genes Chromosomes Cancer.* 2009 Jun;48(6):521-31.

Ronchetti D, Lionetti M, Mosca L, Agnelli L, Andronache A, Fabris S, Deliliers GL, Neri A. An integrative genomic approach reveals coordinated expression of intronic miR-335, miR-342, and miR-561 with deregulated host genes in multiple myeloma. *BMC Med Genomics.* 2008 Aug 13;1:37.

S. Fabris, **D. Ronchetti**, L. Agnelli, L. Baldini, F. Morabito, S. Bicciato, D. Basso, K. Todoerti, L. Lombardi G. Lambertenghi-Deliliers, , A. Neri. "Transcriptional analysis of multiple myeloma with chromosome 1q gain reveals the involvement of molecular pathways related to intracellular protein transport and endoplasmic reticulum stress induced -apoptosis" *Leukemia.* 2007 May;21(5):1113-6.

S. Fabris and D. Ronchetti equally contributed

L. Lombardi, G. Porretti, M. Mattioli, S. Fabris, L. Agnelli, S. Bicciato, I. Kwee, A. Rinaldi, **D. Ronchetti**, D. Verdelli, F. Bertoni, G. Lambertenghi-Deliliers, F. Bertoni, A. Neri. "Molecular characterization of human multiple myeloma cell lines by integrative genomics: Insights into the biology of the disease" *Genes, Chromosomes & Cancer.* 2007 46: 226-238.

D. Intini, L. Agnelli, G. Ciceri, **D. Ronchetti**, S. Fabris, L. Nobili, G. Lambertenghi-Deliliers, L. Lombardi, A. Neri. "Relevance of Ras gene mutations in the context of the molecular heterogeneity of multiple myeloma" *Hematological Oncology.* 2007 Mar;25(1):6-10.

S. Fabris, L. Agnelli, M. Mattioli, L. Baldini, **D. Ronchetti**, F. Morabito, D. Verdelli, L. Nobili, D. Intini, V. Callea, C. Stelitano, L. Lombardi, A. Neri. "Characterization of oncogene dysregulation in multiple myeloma by combined FISH and DNA microarray analyses". *Genes, Chromosomes & Cancer.* 2005 42:117-127.

Todoerti K, **Ronchetti D**, Agnelli L, Castellani S, Marelli S, Deliliers GL, Zanella A, Lombardi L, Neri A. "Transcription repression activity is associated with the type I isoform of the MMSET gene involved in t(4;14) in multiple myeloma" *Br J Haematol*. 2005 Oct;131(2):214-8.
K. Todoerti and D. Ronchetti equally contributed

Ronchetti D, Arisi E, Neri A, Pruneri G, Digiuni B, Sambataro G, Gallo O, Pignataro L. Microsatellite analyses of recurrence or second primary tumor in head and neck cancer. *Anticancer Res*. 2005 Jul-Aug;25(4):2771-5.

Ronchetti D, Neglia CB, Cesana BM, Carboni N, Neri A, Pruneri G, Pignataro L. Association between p53 gene mutations and tobacco and alcohol exposure in laryngeal squamous cell carcinoma. *Arch Otolaryngol Head Neck Surg*. 2004 Mar;130(3):303-6.

Ronchetti D, Intini D, Pruneri G, Neri A, Pignataro L. "Lack of Bcl10 gene mutations in laryngeal squamous cell carcinoma". *J Laryngol Otol*. 2002 Aug;116(8):610-2.

Pruneri G, Pignataro L, Manzotti M, Carboni N, **Ronchetti D**, Neri A, Cesana BM, Viale G. "p63 in laryngeal squamous cell carcinoma: evidence for a role of TA-p63 down-regulation in tumorigenesis and lack of prognostic implications of p63 immunoreactivity." *Lab Invest*. 2002 Oct;82(10):1327-34.

Ronchetti D, Greco A, Compasso S, Colombo G, Dell'Era P, Otsuki T, Lombardi L, Neri A. "Deregulated FGFR3 mutants in multiple myeloma cell lines with t(4;14): comparative analysis of Y373C, K650E and the novel G384D mutations". *Oncogene*. 2001 Jun 14;20(27):3553-62.

Ronchetti D, Bogni S, Finelli P, Lombardi L, Otsuki T, Maiolo AT, Neri A. "Characterization of the t(4;14)(p16.3;q32) in the KMS-18 multiple myeloma cell line". *Leukemia*. 2001 May;15(5):864-5.

D. Ronchetti, P. Finelli, R. Richelda, L. Baldini, M. Rocchi, L. Viggiano, A. Cuneo, S. Bogni, S. Fabris, L. Lombardi, A.T. Maiolo, A. Neri. "Molecular analysis of 11q13 breakpoints in multiple myeloma" *Blood*. 1999 93: 1330-1337.

Fracchiolla N.S., Capaccio P., Carboni N., Pagliari A., Neri . **Ronchetti D.**, Pruneri GC., Silvotti MG., Pignataro L., Buffa R., Broich G. "Immunohistochemical and molecular analysis of BAX, BCL-2 and P53 genes in laryngeal squamous cell carcinomas". *ANTICANCER RESEARCH* 1999: 19, 1043-1052.

Pruneri G, Pignataro L, Carboni N, **Ronchetti D**, Cesana BM, Ottaviani A, Neri A, Buffa R. "Clinical relevance of p53 and bcl-2 protein over-expression in laryngeal squamous-cell carcinoma". *Int J Cancer*. 1998 Jun 19;79(3):263-8.

Perletti L, Talarico D, Trecca D, **Ronchetti D**, Fracchiolla NS, Maiolo AT, Neri A. "Identification of a novel gene, PSD, adjacent to NFKB2/lyt-10,

which contains Sec7 and pleckstrin-homology domains". Genomics. 1997 Dec 1;46(2):251-9.

Richelda R, **Ronchetti D**, Baldini L, Cro L, Viggiano L, Marzella R, Rocchi M, Otsuki T, Lombardi L, Maiolo AT, Neri A. "A novel chromosomal translocation t(4; 14)(p16.3; q32) in multiple myeloma involves the fibroblast growth-factor receptor 3 gene". Blood. 1997 Nov 15;90(10):4062-70.

R. Richelda and D. Ronchetti equally contributed

Privitera E, Rivolta A, **Ronchetti D**, Mosna G, Giudici G, Biondi A. "Reverse transcriptase/polymerase chain reaction follow-up and minimal residual disease detection in t(1;19)-positive acute lymphoblastic leukaemia". Br J Haematol. 1996 Mar;92(3):653-8.

Privitera E, Luciano A, **Ronchetti D**, Arico M, Santostasi T, Basso G, Biondi A. "Molecular variants of the 1;19 chromosomal translocation in pediatric acute lymphoblastic leukemia (ALL)". Leukemia. 1994 Apr;8(4):554-9.