

Europass Curriculum Vitae

Personal information

First name(s) / Surname(s) **Gaia Roversi**
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 E-mail gaia.roversi@unimib.it
 Nationality Italian
 Date of birth 8 Feb 1974
 Gender female

Occupational field **Genetic counselor; Assistant Professor**

Work experience

Dates From September 2015-today
 Occupation or position held Genetic counselor
 Main activities and responsibilities Genetic counselling, mainly in oncogenetics
 Name and address of employer S.S. Citogenetica e Genetica Medica, Ospedale San Gerardo, ASST Monza, Via Pergolesi 33
 sector Medical Genetics

Dates From November 2011- today
 Occupation or position held Tenured Assistant Professor MED/03
 Main activities and responsibilities Research and Education
 Name and address of employer University of Milano-Bicocca, School of Medicine and Surgery
 sector Medical Genetics MED/03

Dates February 2009 – October 2011
 Occupation or position held Independent contractor
 Main activities and responsibilities Oncogenetic counselor
 Name and address of employer Fondazione IRCSS Istituto Nazionale dei Tumori, via Venezian1, Milan
 sector Medical Genetics

Education and training

Dates November 2006- November 2008
 Occupation or position held Temporary Research Fellow
 Main activities and responsibilities project : "The role of cancer stem cells in gliomagenesis", supervision of Professor Lidia Larizza
 Name and address of employer University of Milan, San Paolo Hospital, Department of Medicine, Surgery and Dentistry, Milan

Dates February 2004
 Occupation or position held Stage
 Main activities and responsibilities Short Term Scientific Mission for COST ACTION B19 (Molecular cytogenetics of Solid Tumors)
 Name and address of employer Department of Human Genetics, Radboud University, Nijmegen Medical Centre, The Netherlands

Dates	November 2004- November 2006
Occupation or position held	Temporary Research Fellow
Main activities and responsibilities	Project:"The WNT signaling pathway and its role in human brain tumors", supervision of Professor Lidia Larizza"
Name and address of employer	University of Milan, San Paolo Hospital, Department of Medicine, Surgery and Dentistry, Milan
Dates	November 2004
Title of qualification awarded	Post Graduate School of Specialization in Medical Genetics, degree grade 70/70 with honours; graduation thesis " Identification of novel genomic markers related to progression to glioblastoma through genomic profiling of 25 primary glioma cell lines"
Name and type of organisation	University of Milan
Dates	May 2001
Title of qualification awarded	Licence to practice medicine
Name and type of organisation	Milan
Dates	July 2000
Title of qualification awarded	University Degree in Medicine and Surgery; degree grade 107/110; graduation thesis: "RNA hyperediting and alternative splicing of hematopoietic cell phosphatase (PTPN6) gene in acute myeloid leukemia"
Name and type of organisation	University of Milan
Dates	July 1993
Title of qualification awarded	High School diploma
Name and type of organisation	Liceo Classico Omero Milano

Personal skills and competences

Mother tongue(s) **Italian**

Other language(s)

Self-assessment

European level (*)

English

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
intermediate	good	intermediate	intermediate	good

Organisational skills and competences **Good organizational skills**

Technical skills and competences

Conventional cytogenetics: Metaphase Chromosome Spread Preparation. Karyotype analysis with QFQ banding. Induction of fragile sites in lymphocytes by aphidicolin.

Molecular cytogenetics: one and dual color fluorescence in situ hybridization (FISH) of metaphase chromosomes or interphase nuclei. Oligonucleotide and BAC- based array comparative genomic hybridization (CGH).

Molecular Biology: DNA and RNA extraction from whole blood, cultured cells, fresh tissues, Formalin-fixed, paraffin-embedded (FFPE) tissues. Plasmid and BAC DNA isolation by miniprep. Molecular cloning. PCR, RT-PCR, TaqMan Real Time PCR. Agarose and acrylamide electrophoresis. Mutational screening by automated sequencing, DDGE, CDGE, TGCE. Microsatellite Analysis, Sanger sequencing, NGS sequencing.

Cellular biology: preparation of bacterial culture and cell culture (cancer cell lines, fibroblast, lymphoblastoid cell lines). Isolation and expansion of cancer stem cells from glioma cell lines. Cytokinesis-block micronucleus (CBMN) assay in human lymphocytes.

Computer skills and competences

Good knowledge of Microsoft Office Pack Application: Word, Excel, FrontPage, Explorer, Outlook Power Point. Good knowledge of Adobe Photoshop, Acrobat Reader, Casti Imaging. Bioinformatics: Use of the most common bioinformatics tools (NCBI, UCSC, Ensemble, BLAST, splice site prediction websites; mutation predictions Algorithm BRCAPRO, BOADICEA)

Publications

PUBBLICAZIONI IN ESTENSO

1. Redaelli S, Conconi D, Sala E, Villa N, Crosti F, Roversi G, Catusi I, Valtorta C, Recalcati MP, Dalprà L, Lavitrano M, Bentivegna A. Characterization of Chromosomal Breakpoints in 12 Cases with 8p Rearrangements Defines a Continuum of Fragility of the Region. *Int J Mol Sci.* 2022 Mar 20;23(6):3347. doi: 10.3390/ijms23063347.
2. Negri S, De Ponti E, Sina FP, Sala E, Dell'Oro C, Roversi G, Lazzarin S, Delle Marchette M, Inzoli A, Toso C, Fumagalli S, Campanella M, Kotsopoulos J, Fruscio R. Evaluation of family history in individuals with heterozygous BRCA pathogenic variants diagnosed with breast or ovarian cancer in a single center in Italy. *Mol Genet Genomic Med.* 2022 Dec;10(12):e2071. doi: 10.1002/mgg3.2071. Epub 2022 Oct 28.
3. Giambra M, Di Cristofori A, Conconi D, Marzorati M, Redaelli S, Zambuto M, Rocca A, Roumy L, Carrabba G, Lavitrano M, Roversi G, Giussani C, Bentivegna A. Insights into the Peritumoural Brain Zone of Glioblastoma: CDK4 and EXT2 May Be Potential Drivers of Malignancy.. *Int J Mol Sci.* 2023 Feb 2;24(3):2835. doi: 10.3390/ijms24032835.
4. Villa N, Redaelli S, Sala E, Conconi D, Romitti L, Manfredini E, Crosti F, Roversi G, Lavitrano M, Rodeschini O, Recalcati MP, Piazza R, Dalprà L, Riva P, Bentivegna A. Human Chromosome 18 and Acrocentrics: A Dangerous Liaison. *Int J Mol Sci.* 2021 May 26;22(11):5637. doi: 10.3390/ijms22115637.
5. Roversi G, Colombo EA, Magnani I, Gervasini C, Maggiore G, Paradisi M, Larizza L. *Genet Mol Biol.* 2021 Aug 6;44(3):e20200332. doi: 10.1590/1678-4685-GMB-2020-0332. eCollection 2021. Spontaneous chromosomal instability in peripheral blood lymphocytes from two molecularly confirmed Italian patients with Hereditary Fibrosis Poikiloderma: insights into cancer predisposition.PMID: 34358284.
6. Conconi D, Redaelli S, Lissani AA, Cilibrasi C, Perego P, Gautiero E, Sala E, Paderno M, Dalprà L, Landoni F, Lavitrano M, Roversi G, Bentivegna A. Genomic and Epigenomic Profile of Uterine Smooth Muscle Tumors of Uncertain Malignant Potential (STUMPs) Revealed Similarities and Differences with Leiomyomas and Leiomyosarcomas. *Int J Mol Sci.* 2021 Feb 4;22(4):1580. doi: 10.3390/ijms22041580.
7. Redaelli S, Conconi D, Villa N, Sala E, Crosti F, Corti C, Catusi I, Garzo M, Romitti L, Martinoli E, Patrizi A, Malgara R, Recalcati MP, Dalprà L, Lavitrano M, Riva P, Roversi G, Bentivegna A.: Instability of Short Arm of Acrocentric Chromosomes: Lesson from Non-Acrocentric Satellited Chromosomes. Report of 24 Unrelated Cases. *Int J Mol Sci.* 2020 May 13; 21(10):3431. doi: 10.3390/ijms21103431.
8. Redaelli S, Maitz S, Crosti F, Sala E, Villa N, Spaccini L, Selicorni A, Rigoldi M, Conconi D, Dalprà L, Roversi G, Bentivegna A.: Refining the Phenotype of Recurrent Rearrangements of Chromosome 16. *Int J Mol Sci.* 2019 Mar 4;20(5). pii: E1095. doi: 10.3390/ijms20051095.
9. Smith A, Galli M, Piga I, Denti V, Stella M, Chinello C, Fusco N, Leni D, Manzoni M, Roversi G, Garancini M, Pincelli AI, Cimino V, Capitoli G, Magni F, Pagni F.: Molecular signatures of medullary thyroid carcinoma by matrix-assisted laser desorption/ionisation mass spectrometry imaging. *J Proteomics.* 2019 Jan 16;191:114-123. doi: 10.1016/j.jprot.2018.03.021.
10. Conconi D, Villa N, Redaelli S, Sala E, Crosti F, Maitz S, Rigoldi M, Parini R, Dalprà L, Lavitrano M, Roversi G.: Familiar unbalanced complex rearrangements involving 13 p-arm: description of two cases. *Mol Cytogenet.* 2018 Sep 6;11:52. doi: 10.1186/s13039-018-0400-6.
11. Imperatore V, Pinto AM, Gelli E, Trevisson E, Morbidoni V, Frullanti E, Hadjililianou T, De Francesco S, Toti P, Gusson E, Roversi G, Accogli A, Capra V, Mencarelli MA, Renieri A, Ariani F.: Parent-of-origin effect of hypomorphic pathogenic variants and somatic mosaicism impact on phenotypic expression of retinoblastoma. *Eur J Hum Genet.* 2018 Jul;26(7):1026-1037. doi: 10.1038/s41431-017-0054-6.
12. Bentivegna A, Roversi G, Riva G, Paoletta L, Redaelli S, Miloso M, Tredici G, Dalprà L. The Effect of Culture on Human Bone Marrow Mesenchymal Stem Cells: Focus on DNA Methylation Profiles. *Stem Cells Int.* 2016;2016:5656701. doi: 10.1155/2016/5656701.
13. Manzoni M, Roversi G, Di Bella C, Pincelli AI, Cimino V, Perotti M, Garancini M, Pagni F. Solid cell nests of the thyroid gland: morphological, immunohistochemical and genetic features. *Histopathology.* 2016 May;68(6):866-74. doi: 10.1111/his.12858.
14. La Verde N, Corsi F, Moretti A, Peissel B, Dalu D, Girelli S, Fasola C, Gambaro A, Roversi G, Azzollini J, Radice P, Pensotti V, Farina G, Manoukian S.: A targeted approach to genetic counseling in breast cancer patients: the experience of an Italian local project. *Tumori.* 2016 Jan-Feb;102(1):45-50. doi: 10.5301/tj.5000407. Epub 2015 Sep 10.
15. Roversi G, Picinelli C, Bestetti I, Crippa M, Perotti D, Ciceri S, Saccheri F, Collini P, Poliani PL, Catania S, Peissel B, Pagni F, Russo S, Peterlongo P, Manoukian S, Finelli P.: Constitutional de novo deletion of the FBXW7 gene in a patient with focal segmental

- glomerulosclerosis and multiple primitive tumors. *Sci Rep*. 2015 Oct 20;5:15454. doi: 10.1038/srep15454.
16. Pagni F, L'Imperio V, Bono F, Garancini M, Roversi G, De Sio G, Galli M, Smith AJ, Chinello C, Magni F. Proteome analysis in thyroid pathology. *Expert Rev Proteomics*. 2015 Aug;12(4):375-90. doi: 10.1586/14789450.2015.1062369. Epub 2015 Jul 1. Review.
 17. Peterlongo P. et al.: FANCM c.5791C>T nonsense mutation (rs144567652) induces exon skipping, affects DNA repair activity and is a familial breast cancer risk factor. *Hum Mol Genet*. 2015 Sep 15;24(18):5345-55. doi: 10.1093/hmg/ddv251. Epub 2015 Jun 30.
 18. Between collaborators: Kuchenbaecker KB et al, Identification of six new susceptibility loci for invasive epithelial ovarian cancer. *Nat Genet*. 2015 Feb;47(2):164-71. doi: 10.1038/ng.3185. Epub 2015 Jan 12.
 19. Colombo EA, Fontana L, Roversi G, Negri G, Castiglia D, Paradisi M, Zambruno G, Larizza L.: Novel physiological RECQL4 alternative transcript disclosed by molecular characterisation of Rothmund-Thomson Syndrome sibs with mild phenotype. *Eur J Hum Genet*. 2014 Nov;22(11):1298-304. doi: 10.1038/ejhg.2014.18. Epub 2014 Feb 12.
 20. Kuchenbaecker KB et al, Associations of common breast cancer susceptibility alleles with risk of breast cancer subtypes in BRCA1 and BRCA2 mutation carriers. *Breast Cancer Res*. 2014 Dec 31;16(6):3416. doi: 10.1186/s13058-014-0492-9.
 21. Mainini V, Pagni F, Garancini M, Giardini V, De Sio G, Cusi C, Arosio C, Roversi G, Chinello C, Caria P, Vanni R, Magni F.: An Alternative Approach in Endocrine Pathology Research: MALDI-IMS in Papillary Thyroid Carcinoma. *Endocr Pathol*. 2013 Oct 19.
 22. Larizza L, Roversi G, Verloes A.: Clinical utility gene card for: Rothmund-Thomson syndrome. *Eur J Hum Genet*. 2013 Jul;21(7).
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 24. Bonifaci N, Palafox M, Pellegrini P, Osorio A, Benítez J, Peterlongo P, Manoukian S, Peissel B, Zaffaroni D, Roversi G, Barile M, Viel A, Mariette F, Bernard L, Radice P, Kaufman B, Laitman Y, Milgrom R, Friedman E, Sáez ME, Climent F, Soler MT, Diez O, Balmaña J, Lasa A, Ramón y Cajal T, Miramar MD, de la Hoya M, Pérez-Segura P, Caldés T, Moreno V, Urruticoechea A, Brunet J, Lázaro C, Blanco I, Pujana MA, González-Suárez E. Evidence for a link between TNFRSF11A and risk of breast cancer. *Breast Cancer Res Tr*. 2011 Oct;129(3):947-54.
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 26. Ramus SJ, Kartsonaki C, Gayther SA, Pharoah PD, Sinilnikova OM, Beesley J, Chen X, McGuffog L, Healey S, Couch FJ, Wang X, Fredericksen Z, Peterlongo P, Manoukian S, Peissel B, Zaffaroni D, Roversi G, et al. Genetic Variation at 9p22.2 and Ovarian Cancer Risk for BRCA1 and BRCA2 Mutation Carriers. *J Natl Cancer Inst*. 2011 Jan 19;103(2):105-116.
 27. Concolino D, Roversi G, Muzzi GL, Sestito S, Colombo EA, Volpi L, Larizza L, Strisciuglio P. Clericuzio-type poikiloderma with neutropenia syndrome in three sibs with mutations in the C16orf57 gene: delineation of the phenotype. *Am J Med Genet A*. 2010 Oct;152A(10):2588-94.
 28. Catucci I, Verderio P, Pizzamiglio S, Manoukian S, Peissel B, Zaffaroni D, Roversi G, Ripamonti CB, Pasini B, Barile M, Viel A, Giannini G, Papi L, Varesco L, Martayan A, Riboni M, Volorio S, Radice P, Peterlongo P. The CASP8 rs3834129 polymorphism and breast cancer risk in BRCA1 mutation carriers. *Breast Cancer Res Tr*. 2011 Feb;125(3):855-60.
 29. Pedranzini L, Mottadelli F, Ronzoni S, Rossella F, Ferracin M, Magnani I, Roversi G, Colapietro P, Negrini M, Pelicci PG, Larizza L. Differential cytogenomics and miRNA signature of the Acute Myeloid Leukaemia Kasumi-1 cell line CD34+38- compartment. *Leukemia Res*. 2010 Oct;34(10):1287-95.

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31. Volpi L*, Roversi G*, Colombo EA, Leijsten N, Concolino D, Calabria A, Mencarelli MA, Fimiani M, Macciardi F, Pfundt R, Schoenmakers EF, Larizza L. (*These authors contributed equally to this work): Targeted next-generation sequencing appoints c16orf57 as clericuzio-type poikiloderma with neutropenia gene. *Am J Hum Genet.* 2010 Jan;86(1):72-6. Epub 2009 Dec 10. Erratum in: *Am J Hum Genet.* 2010 Sep 10;87(3):445
32. Magnani I, Novielli C, Bellini M, Roversi G, Bello L, Larizza L.: Multiple localization of endogenous MARK4L protein in human glioma. *Cell Oncol.* 2009;31(5):357-70.
33. Gervasini C, Pfundt R, Castronovo P, Russo S, Roversi G, Masciadri M, Milani D, Zampino G, Selicorni A, Schoenmakers E, Larizza L.: Search for genomic imbalances in a cohort of 24 Cornelia de Lange patients negative for mutations in the NIPBL and SMC1L1 genes. *Clin Genet.* 2008 Dec;74(6):531-8
34. Sznajer Y, Siitonen HA, Roversi G, Dangoisse C, Scaillon M, Ziereisen F, Tenoutasse S, Kestila M, Larizza L.: Atypical Rothmund-Thomson syndrome in a patient with compound Heterozygous Mutations in RECQL4 Gene and phenotypic features in RECQL4 syndromes. *Eur J Pediatr.* 2008 Feb;167(2):175-81.
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36. Larizza L, Magnani I, Roversi G.: Rothmund-Thomson syndrome and RECQL4 defect: Splitting and lumping. *Cancer Lett.* 2006 Jan 28;232(1):107-20. Review.
37. Roversi G, Pfundt R, Moroni RF, Magnani I, van Reijmersdal S, Pollo B, Straatman H, Larizza L, Schoenmakers EF. Identification of novel genomic markers related to progression to glioblastoma through genomic profiling of 25 primary glioma cell lines. *Oncogene.* 2006 Mar 9;25(10):1571-83.
38. Magnani I, Ramona RF, Roversi G, Beghini A, Pfundt R, Schoenmakers EF, Larizza L.: Identification of oligodendroglioma specific chromosomal copy number changes in the glioblastoma M-4 cell line by array-CGH and FISH analyses. *Cancer Genet Cytogen.* 2005 Sep;161(2):140-5
39. Beghini A, Castorina P, Roversi G, Modiano P, Larizza L.: RNA processing defects of the helicase gene RECQL4 in a compound heterozygous Rothmund-Thomson patient. *Am J Med Genet. A* 2003 Jul 30;120A(3):395-9
40. Beghini A, Magnani I, Roversi G, Piepoli T, Di Terlizzi S, Moroni RF, Pollo B, Fuhrman Conti AM, Cowell JK, Finocchiaro G, Larizza L.: The neural progenitor-restricted isoform of the MARK4 gene in 19q13.2 is upregulated in human gliomas and overexpressed in a subset of glioblastoma cell lines. *Oncogene* 2003 May 1;22(17):2581-91.
41. Roversi G, Beghini A, Zambruno G, Paradisi M, Larizza L. Identification of two novel RECQL4exonic SNPs and genomic characterization of the IVS12 minisatellite. *J. Hum Genet.* 2003;48(2):107-9
42. Beghini A, Tibiletti MG, Roversi G, Chiaravalli AM, Serio G, Capella C, Larizza L.: Germline mutation in the juxtamembrane domain of the kit gene in a family with gastrointestinal stromal tumors and urticaria pigmentosa. *Cancer.* 2001 Aug 1;92(3):657-62
43. Beghini A, Ripamonti CB, Peterlongo P, Roversi G, Cairoli R, Morra E, Larizza L.: RNA hyperediting and alternative splicing of hematopoietic cell phosphatase (PTPN6) gene in acute myeloid leukemia. *Hum Mol Genet.* 2000 Sep 22;9(15):2297-304.

Award October 2009, Palazzo Marino, Milan, "Nastro Rosa Estée Lauder Companies" award organized by LILT (Lega Italiana per la Lotta contro i Tumori))


Dr.ssa Gaia Roversi

Monza, March 2023

Il sottoscritto è a conoscenza che, ai sensi dell'art. art. 76 del DPR 445/2000, le dichiarazioni mendaci, la falsità negli atti e l'uso di atti falsi sono puniti ai sensi del codice penale e delle leggi speciali. Inoltre, il sottoscritto autorizza al trattamento dei dati personali ai sensi dell'art. 13 D. Lgs. 30 giugno 2003 n°196 – "Codice in materia di protezione dei dati personali" e dell'art. 13 GDPR 679/16 – "Regolamento europeo sulla protezione dei dati personali".

