

CURRICULUM VITAE

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EDUCATION

- 2018 Assistant Professor (Ricercatore a Tempo Determinato di tipo B, RTDB), Medical Genetics, School of Medicine and Surgery, Univ. Milan Bicocca.
- 2014 Qualification (National Scientific Habilitation, ASN) for Associate Professorship to the following sections: 05/F1 Applied Biology BIO/13 and 06/A1 Medical Genetics MED/03, 06/A2 General and Clinical Pathology.
- 2004 Specialist in Medical Genetics. Faculty of Medicine, University of Milan, Italy. *70/70 cum laude*.
- 1992 Specialist in Pharmaceutical Research at the "M.Negri" Pharmacology Research Institute of Milan, Italy.
- 1990 Biological Science degree at the University of Milan, Italy. *110/110 cum laude*.

PROFESSIONAL POSITION

- Dec 2018 now Assistant Professor (RTDB) in Medical Genetics, School of Medicine and Surgery, Univ. Milan Bicocca.
- 2009 now Director, Laboratory of Hemato-Oncology Diagnostics "M. Tettamanti", Fondazione MBBM, Monza.
- 1997 now Head, "Molecular genetics of leukemia" Unit, Centro Ricerca Tettamanti, Pediatric Clinic, University of Milan-Bicocca, Monza, Italy.
- 1995/1997 Research fellow at the "M.Tettamanti" Research Center, Pediatric Clinic, University of Milan-Bicocca, Ospedale San Gerardo, Monza, Italy.
- 1990/1994 Research fellow at the Laboratory of Enzymology - Molecular Biology Unit - "M.Negri" Pharmacology Research Institute, Milan, Italy.

MAJOR RESEARCH INTERESTS

- Genetic predisposition to leukemia
- Personalized Medicine in Pediatric Hemato-Oncology
- Prenatal origin of leukemia and clonal evolution.
- Molecular characterization of childhood ALL and AML.
- Minimal residual disease monitoring in childhood ALL, by analysis of T-cell Receptor and Immunoglobulin genes' rearrangements and fusion gene transcripts.
- Functional analysis of genetic aberrations in leukemic patients (PAX5 lesions, Ph-like ALL, Down Syndrome ALL, MLL-rearrangements).

- Leukemia Stem Cell

ORGANIZATIONAL / EDUCATIONAL / MANAGERIAL SKILLS

- Head of the Laboratory Tettamanti for Hemato-Oncological Diagnostics, coordinating 15 biologists and technicians working on cytomorphology and immunophenotyping, cytogenetics/molecular cytogenetics and molecular biology, for the diagnosis and monitoring of childhood and adult leukemia. The Laboratory is National reference for childhood ALL, and one of the main regional references for CML/MPD.
- Group Leader of the 'Molecular Genetics of Leukemia' Unit at the Tettamanti Research Center, coordinating a team of 3 PostDocs, 5 PhD students and 2 rotating ungraduated students.
- Founder and Board Member of the European Group for Minimal Residual Disease (EuroMRD, www.euomrd.org) analysis; Steering Committee member of the Euroclonality-NGS group, member of the Biology & Diagnosis Committee of the International-BFM Study Group (I-BFM-SG); board member of the Working Group on Biology of the Italian Association for Pediatric Hemato-Oncology (AIEOP); Management Committee member of the COST Action 'Legend' and vice-chair of WG3 on 'Familial Leukemia'; Committee of the International PhD in Molecular and Translational Medicine (DIMET-Università Milano Bicocca, Monza).
- Large experience in training and supervising students. Overall, 5 PhD students for the International PhD in Molecular and Translational Medicine (DIMET-Università Milano Bicocca, Monza); 3 PhD students for the International PhD in Molecular Medicine (Università Vita-Salute San Raffaele, Milano); 2 students for their post-Degree Specialization in Medicine (Università Milano Bicocca, Monza); 13 students for their degree in Medicine (Università Milano Bicocca, Monza); 11 students for their degree in Biotechnology or Biology (Università Milano Bicocca, Monza and Università degli Studi, Milano); 3 students for their degree as Laboratory Technician (Università Milano Bicocca, Monza).
- Since 2011: yearly Teacher at the Master on Pediatric Hematology, Sapienza University, Rome, IT

HONOURS AND AWARDS (personal and of the group)

- 2015 Cazzaniga V/Cazzaniga G. Best Thesis: PAX5/ETV6 alters the gene expression profile of precursor B cells with opposite dominant effect on endogenous PAX5. 29th National Conference of Cytometry (GIC), Salerno, Italy. Lettere GIC 2011;20:27-30
- 2014 Bardini M/Cazzaniga G. 'Mundipharma Hematology Award'. National Contest, SIES 2014: Scientific paper: Clonal variegation and dynamic competition of leukemia-initiating cells in infant acute lymphoblastic leukemia with MLL rearrangement. Leukemia 2015.
- 2014 Palmi C/Cazzaniga G. 'Under 40- Young in Hematology', National Contest, SIES 2014: Research Project: 'CRLF2 Over-expression is a Poor Prognostic Marker in Children With High Risk T-cell ALL'.
- 2006 Palmi C/Cazzaniga G. Best Poster at the 5th Bi-annual Symposium on Childhood Leukemia; 'Expression of the TEL-AML1 leukemia-associated fusion protein inhibits TGF-beta1 signaling'.
- 2006 Palmi C/Cazzaniga G. Poster "Scholar in Training awardee" at the AACR Special Conference in cancer Research, California (USA).

- 1998 Cazzaniga G. Best abstract at the AIEOP Congress (Pavia). ‘Prenatal origin of leukemia’.
- Several ASH, EHA, SIES travel awards to the personnel of the group through the years.
- Several peer reviewed fellows and University positions to the personnel of the group through the years.

PEER REVIEWED GRANTS

As ‘PI’:

- Italian Association for Cancer Research (AIRC) – 2015-2017 - A comprehensive sequencing platform for precision medicine in childhood acute lymphoblastic leukemia
- Italian Association for Cancer Research (AIRC) – 2012-2014 - Next Generation Sequencing to improve diagnostics and molecular dissection of childhood leukemia
- Fondazione Cariplo - 2011-2013 - Identification and functional characterization of new risk factors in childhood acute lymphoblastic leukemia.
- Italian Association for Cancer Research (AIRC) – 2009-2011 - High throughput sequencing for dissecting the complexity of childhood ALL.
- Italian Association for Cancer Research (AIRC) – 2006-2008 - Identification of new genomic lesions in childhood ALL with “normal karyotype” by a comprehensive approach.

As ‘Collaborator’:

- TRANSCAN-2 JTC 2017_Quant-ALL-0622: ‘Automated, absolute quantification of MRD in ALL patients by droplet microfluidics, single DNA copy barcoding and IG/TR amplicon NGS’. PI Unit: G.Cazzaniga.
- H2020-MSCA-ITN-2018- Proposal number: 813091: ARCH: Age-Related Changes in Hematopoiesis. PI: Antonella Ronchi (Unimib, Milano, IT); PI Unit: G.Cazzaniga.
- COST Action OC-2016-2-21584 (Call OC-2016-2). PI: Esme Wanders (Utrecht, NL) Leukemia GENE Discovery by data sharing, mining and collaboration (LEGEND). Italian Member: G.Cazzaniga
- Transcan - European Union, FP7 - PI :Andrea Biondi: Validation of the impact of genetic aberrations and host genetic variation in childhood acute lymphoblastic leukemia for integration into clinical practice.
- Marie Curie Initial Training Networks (ITN) - Call: FP7-PEOPLE-2011-ITN European Union, FP7 – PI: Antonella Ronchi (Unimib, IT); PI Unit: Andrea Biondi: Hem_Id - HEMatopoietic cell Identity, genetic and epigenetic regulation in normal and malignant hematopoiesis.
- FP7-HEALTH-F2-2011 Contract no. 261474 - European Union, FP7 - PI Andrea Biondi: ENCCA - European Network for Cancer Research in Children and Adolescents.
- Italian Association for Cancer Research, Fondazione Cariplo, Italian Ministry of University and Research - PI Andrea Biondi: several peer reviewed grants in the last 15 years.

SOCIETIES

- Member of the Italian Society of Human Genetics (SIGU)
- Member of the American Society of Hematology (ASH)
- Member of the European Society of Hematology (EHA)
- Member of the Italian Association of Pediatric Hemato-Oncology (AIEOP)
- Member of the Italian Society of Experimental Hematology (SIES)

- Board Member of the European Study Group for Minimal Residual Disease in Acute Lymphoblastic Leukemia (ESG-MRD ALL)
- Member of the Steering Committee of the Euroclonality-NGS Group.

COLLABORATIVE PROGRAMS

2018-	JakNet - Italian network on Ph negative Myeloproliferative Disorders.
2016-now	Campus ALL – Italian network on diagnosis, prognosis and treatment of ALL.
2015-now	I-BFM Genetic Variation Task Force. Network on genetic predisposition to leukemia.
2013-now	LabNet CML - Italian network on Chronic Myeloid Leukemia
2013-now	EuroClonality-NGS Consortium on Next-Generation Sequencing for IG/TR immunogenetic analysis.
2008-now	European Study Group on MRD detection in ALL (ESG-MRD-ALL). Standardization and Quality Control of RQ-PCR for BCR/ABL1 and ABL1 mutations.
2002-now	European Study Group on MRD detection in ALL (ESG-MRD-ALL). Standardization and Quality Control of Clonality analysis and RQ-PCR for IG/TR.
2000-now	MRD-Task Force: Report, Quality Control and Research Projects within the running childhood ALL therapeutic protocol in Italy, Germany, Austria (AIEOP-BFM ALL2000).
1999-now	International-BFM Study Group. Biology and Diagnosis Committee.
1999-2002	Standardization and quality control studies of 'real-time' quantitative reverse transcriptase polymerase chain reaction of fusion gene transcripts for residual disease detection in leukemia - A Europe Against Cancer Program.
1995-1998	BIOMED-1 Concerted Action: investigation of minimal residual disease in acute leukemia. <ul style="list-style-type: none"> - “Standardized RT-PCR analysis of fusion gene transcripts from chromosome aberrations in acute leukemia for detection of minimal residual disease”. - “Primers and protocols for standardized detection of minimal residual disease in acute lymphoblastic leukemia using immunoglobulin and T cell receptor gene rearrangements and TAL1 deletions as PCR targets”.

REFEREES

- Reviewer of Nature Genetics, New England Journal of Medicine, Blood, Leukemia, Haematologica-The Hematology Journal, Leukemia Research, Leukemia and Lymphoma, Advances in Hematol, Ped Hematol Oncol, Ped Reports, Ped Blood and Cancer, and others.
- Reviewer of International Grant programs, member of the Scientific Committee of the Italian Association for Cancer Research (AIRC) for evaluation of Investigator Grants.
- Abstracts Reviewer for the American Society of Hematology, European Hematology Association and ESLHO meetings.

H-Index: 62, Citations: 17058 (Google Scholar at 14/04/2020)

Rank 74° in Top Italian Scientists – Biomedical Science (31/01/2020)

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PUBLICATIONS

209, including 9 reviews and 1 book chapter

1. Terao M, **Cazzaniga G**, Ghezzi P, Bianchi M, Falciani F, Perani P, Garattini E. Molecular cloning of a cDNA coding for mouse liver xanthine dehydrogenase. Regulation of its transcript by interferons in vivo. *Biochem J* 1992 May 1;283 (Pt 3):863-70
2. Falciani F, Ghezzi P, Terao M, **Cazzaniga G**, Garattini E. Interferons induce xanthine dehydrogenase gene expression in L929 cells. *Biochem J* 1992 Aug 1;285 (Pt 3):1001-8
3. Falciani F, Terao M, Goldwurm S, Ronchi A, Gatti A, Minoia C, Li Calzi M, Salmona M, **Cazzaniga G**, Garattini E. Molybdenum(VI) salts convert the xanthine oxidoreductase apoprotein into the active enzyme in mouse L929 fibroblastic cells. *Biochem J* 1994 Feb 15;298 (Pt 1):69-77
4. **Cazzaniga G**, Terao M, Lo Schiavo P, Galbiati F, Segalla F, Seldin MF, Garattini E. Chromosomal mapping, isolation, and characterization of the mouse xanthine dehydrogenase gene. *Genomics* 1994 Sep 15;23(2):390-402
5. Li Calzi M, Raviolo C, Ghibaudi E, de Gioia L, Salmona M, **Cazzaniga G**, Kurosaki M, Terao M, Garattini E. Purification, cDNA cloning, and tissue distribution of bovine liver aldehyde oxidase. *J Biol Chem* 1995 Dec 29;270(52):31037-45
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6. Bertoni F, **Cazzaniga G**, Bosshard G, Roggero E, Barbazza R, De Boni M, Capella C, Pedrinis E, Cavalli F, Biondi A, Zucca E. Immunoglobulin heavy chain diversity genes rearrangement pattern indicates that MALT-type gastric lymphoma B cells have undergone an antigen selection process. *Br J Haematol* 1997 Jun;97(4):830-6
7. Caslini C, Spinelli O, **Cazzaniga G**, Golay J, De Gioia L, Pedretti A, Breviario F, Amaru R, Barbui T, Biondi A, Introna M, Rambaldi A. Identification of two novel isoforms of the ZNF162 gene: a growing family of signal transduction and activator of RNA proteins. *Genomics* 1997 Jun 1;42(2):268-77
8. Borkhardt A,* **Cazzaniga G**,* Viehmann S, Valsecchi MG, Ludwig WD, Burci L, Mangioni S, Schrappe M, Riehm H, Lampert F, Basso G, Masera G, Harbott J, Biondi A. Incidence and clinical relevance of TEL/AML1 fusion genes in children with acute lymphoblastic leukemia enrolled in the German and Italian multicenter therapy trials. Associazione Italiana Ematologia Oncologia Pediatrica and the Berlin-Frankfurt-Munster Study Group. *Blood* 1997 Jul 15;90(2):571-7 *(equal contributors)
9. Tosi S, Mosna G, **Cazzaniga G**, Giudici G, Kearney L, Biondi A, Privitera E. Unbalanced t(3;12) in a case of juvenile myelomonocytic leukemia (JMML) results in partial trisomy of 3q as defined by FISH. *Leukemia* 1997 Sep;11(9):1465-8
10. Biondi A, **Cazzaniga G**. Gli errori della trascrizione nella patologia molecolare della leucemia. *Prospettive in Pediatria*, 1997, 27:349-356.
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11. Zucca E, Bertoni F, Roggero E, **Cazzaniga G**, Bosshard G, Biondi A, Cavalli F. Autoreactive B cell clones in marginal-zone B cell lymphoma (MALT lymphoma) of the stomach. *Leukemia* 1998 Feb;12(2):247-9
12. Zucca E, Bertoni F, Roggero E, Bosshard G, **Cazzaniga G**, Pedrinis E, Biondi A, Cavalli F. Molecular analysis of the progression from Helicobacter pylori-associated chronic gastritis to mucosa-associated lymphoid-tissue lymphoma of the stomach. *N Engl J Med* 1998 Mar 19;338(12):804-10
13. Tosi S, Giudici G, Mosna G, Harbott J, Specchia G, Grosveld G, Privitera E, Kearney L, Biondi A, **Cazzaniga G**. Identification of new partner chromosomes involved in fusions

with the ETV6 (TEL) gene in hematologic malignancies. *Genes Chromosomes Cancer* 1998 Mar;21(3):223-9

14. van Dongen JJ, Seriu T, Panzer-Grumayer ER, Biondi A, Pongers-Willemse MJ, Corral L, Stolz F, Schrappe M, Masera G, Kamps WA, Gadner H, van Wering ER, Ludwig WD, Basso G, de Bruijn MA, **Cazzaniga G**, Hettinger K, van der Does-van den Berg A, Hop WC, Riehm H, Bartram CR. Prognostic value of minimal residual disease in acute lymphoblastic leukaemia in childhood. *Lancet* 1998 Nov 28;352(9142):1731-8
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15. Lo Nigro L, **Cazzaniga G**, Di Cataldo A, Pannunzio A, D'Aniello E, Masera G, Schiliro G, Biondi A. Clonal stability in children with acute lymphoblastic leukemia (ALL) who relapsed five or more years after diagnosis. *Leukemia* 1999 Feb;13(2):190-5
 16. Chase A, Reiter A, Burci L, **Cazzaniga G**, Biondi A, Pickard J, Roberts IA, Goldman JM, Cross NC. Fusion of ETV6 to the caudal-related homeobox gene CDX2 in acute myeloid leukemia with the t(12;13)(p13;q12). *Blood* 1999 Feb 1;93(3):1025-31
 17. Arosio C, Fossati L, Vigano M, Trombini P, **Cazzaniga G**, Piperno A. Hereditary hyperferritinemia cataract syndrome: a de novo mutation in the iron responsive element of the L-ferritin gene. *Haematologica* 1999 Jun;84(6):560-1
 18. Wiemels J,* **Cazzaniga G**,* Daniotti M., Eden T., Masera G., Biondi A. and Greaves M. Pre-natal origin of acute lymphoblastic leukemia in children. *The Lancet*, 1999, 354: 1499-503. *(equal contributors)
 19. **Cazzaniga G.**, S. Tosi, A. Aloisi, G. Giudici, M. Daniotti, P. Pioltelli, L. Kearney and A. Biondi. The tyrosine kinase *Abl*-related gene *ARG* is fused to *ETV6* in an AML-M4Eo patient with a t(1;12)(q25;p13): molecular cloning of both reciprocal transcripts. *Blood*. 1999;94:4370-3.
 20. Bertoni F., Zucca E., Genini D., **Cazzaniga G.**, Roggero E., Ghielmini M., Cavalli F., and Biondi A. Immunoglobulin light chain kappa deletion rearrangement as a marker of clonality in mantle-cell lymphoma.. *Leuk Lymphoma*. 1999;36:147-50.
 21. **Cazzaniga G**, Gottardi E, Volpe G, Toiron Y, Waronko A, Biondi A, Saglio G, Gabert JA. t(12;21)(p13;q22) with the TEL-AML1 fusion gene. in van Dongen JJ et al. Standardized RT-PCR analysis of fusion gene transcripts from chromosome aberrations in acute leukemia for detection of minimal residual disease. Report of the BIOMED-1 Concerted Action: investigation of minimal residual disease in acute leukemia. *Leukemia*. 1999;13:1901-28.
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22. Bertoni F, Sanna P, Tinguely M, Roggero E, Conconi A, Gisi M, **Cazzaniga G**, Biondi A, Pedrinis E, Cavalli F, Zucca E. Association of gastric and Waldeyer's ring lymphoma: a molecular study. *Hematol Oncol*. 2000 Mar;18(1):15-9.
 23. De Zen L, Orfao A, **Cazzaniga G**, Masiero L, Cocito MG, Spinelli M, Rivolta A, Biondi A, Zanesco L, Basso G. Quantitative multiparametric immunophenotyping in acute lymphoblastic leukemia: correlation with specific genotype. I. ETV6/AML1 ALLs identification. *Leukemia*. 2000 Jul;14(7):1225-31.
 24. Wiemels JL, Alexander FE, **Cazzaniga G**, Biondi A, Mayer SP, Greaves M. Microclustering of TEL-AML1 translocation breakpoints in childhood acute lymphoblastic leukemia. *Genes Chromosomes Cancer*. 2000 Nov;29(3):219-28.
 25. Tosi S, Harbott J, Teigler-Schlegel A, Haas OA, Pirc-Danoewinata H, Harrison CJ, Biondi A, **Cazzaniga G**, Kempfski H, Scherer SW, Kearney L. t(7;12)(q36;p13), a new recurrent translocation involving ETV6 in infant leukemia. *Genes Chromosomes Cancer*. 2000 Dec;29(4):325-32.
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 27. Eckert C, Biondi A, Seeger K, **Cazzaniga G**, Hartmann R, Beyermann B, Pogodda M, Proba J, Henze G. Prognostic value of minimal residual disease in relapsed childhood acute lymphoblastic leukaemia. *Lancet*. 2001 Oct 13;358(9289):1239-41.
 28. Bellavia D, Campese AF, Checquolo S, Balestri A, Biondi A, **Cazzaniga G**, Lendahl U, Fehling HJ, Hayday AC, Frati L, von Boehmer H, Gulino A, Screpanti I. Combined expression of pTalpha and Notch3 in T cell leukemia identifies the requirement of preTCR for leukemogenesis. *Proc Natl Acad Sci U S A*. 2002 Mar 19;99(6):3788-93.
 29. Bertoni F, Conconi A, Capella C, Motta T, Giardini R, Ponzoni M, Pedrinis E, Novero D, Rinaldi P, **Cazzaniga G**, Biondi A, Wotherspoon A, Hancock BW, Smith P, Souhami R, Cotter FE, Cavalli F, Zucca E. Molecular follow-up in gastric mucosa-associated lymphoid tissue lymphomas: early analysis of the LY03 cooperative trial. *Blood*. 2002 Apr 1;99(7):2541-4.
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 31. Carlotti E, Pettenella F, Amaru R, Slater S, Lister TA, Barbui T, Basso G, **Cazzaniga G**, Rambaldi A, Biondi A. Molecular characterization of a new recombination of the SIL/TAL-1 locus in a child with T-cell acute lymphoblastic leukaemia. *Br J Haematol*. 2002 Sep;118(4):1011-8.
 32. **Cazzaniga G**, Lanciotti M, Rossi V, Di Martino D, Arico M, Valsecchi MG, Basso G, Masera G, Micalizzi C, Biondi A. Prospective molecular monitoring of BCR/ABL transcript in children with Ph+ acute lymphoblastic leukaemia unravels differences in treatment response. *Br J Haematol*. 2002 Nov;119(2):445-53.
 33. **Cazzaniga G**, d'Aniello E, Corral L, Biondi A. Results of minimal residual disease (MRD) evaluation and MRD-based treatment stratification in childhood ALL. *Best Pract Res Clin Haematol*. 2002;15:623-38. (review)
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 35. Arrigoni P, Beretta C, Silvestri D, Rossi V, Rizzari C, Valsecchi MG, **Cazzaniga G**, Biondi A. FLT3 internal tandem duplication in childhood acute myeloid leukaemia: association with hyperleucocytosis in acute promyelocytic leukaemia. *Br J Haematol*. 2003;120:89-92.
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 37. Germano G, del Giudice L, Palatron S, Giarin E, **Cazzaniga G**, Biondi A, Basso G. Clonality profile in relapsed precursor-B-ALL children by GeneScan and sequencing analyses. Consequences on minimal residual disease monitoring. *Leukemia*. 2003 Aug;17(8):1573-82.
 38. Gunby RH, **Cazzaniga G**, Tassi E, Le Coutre P, Pogliani E, Specchia G, Biondi A, Gambacorti-Passerini C. Sensitivity to imatinib but low frequency of the TEL/PDGFRb fusion protein in chronic myelomonocytic leukemia. *Haematologica*. 2003;88:408-15.

39. Tosi S, Hughes J, Scherer SW, Nakabayashi K, Harbott J, Haas OA, **Cazzaniga G**, Biondi A, Kempfski H, Kearney L. Heterogeneity of the 7q36 breakpoints in the t(7;12) involving ETV6 in infant leukemia. *Genes Chromosomes Cancer*. 2003;38:191-200.
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 41. **Cazzaniga G**, Gaipa G, Rossi V and Biondi A. Minimal residual disease as a surrogate marker for risk assignment to ALL patients. *Rev Clin Exp Hematol*. 2003;7:292-323 (review)
 42. Eckert C, Scrideli CA, Taube T, Songia S, Wellmann S, Manenti M, Seeger K, Biondi A, **Cazzaniga G**. Comparison between TaqMan and LightCycler technologies for quantification of minimal residual disease by using immunoglobulin and T-cell receptor genes consensus probes. *Leukemia*. 2003;17:2517-24.
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 45. Tartaglia M, Martinelli S, **Cazzaniga G**, Cordeddu V, Spinelli M, Palmi C, Carta C, Pession A, Aricò M, Masera G, Basso G, Sorcini M, Gelb BD, and Biondi A. Genetic evidence for lineage- and differentiation stage-related contribution of somatic PTPN11 mutations to leukemogenesis in childhood acute leukemia. *Blood*. 2004;104:307-13.
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 47. Beretta C, Gaipa G, Rossi V, Bernasconi S, Spinelli O, Dell'Oro MG, Rizzari C, Rambaldi A, Biondi A and **Cazzaniga G**. Development of a quantitative-PCR method for specific FLT3/ITD monitoring in Acute Myeloid Leukemia. *Leukemia*. 2004;18:1441-4
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