



**Curriculum  
Vitae  
Europass**

**Personal  
Information**

**SERGIO FERRARI**

**Address**

Department of Life Sciences  
University of Modena and Reggio Emilia  
Via Campi 287  
41125 Modena, Italy

**Phone**

+39 059 2055400

Mobile: +39 335 5403412

**Fax**

+39 059 2055410

**E-mail**

sergio.ferrari@unimore.it

**Nationality**

italian

**Date of birth**

March 2 1950

**Education  
and training**

1975 Degree in Medicine  
1978 Specialization in Clinical and Laboratory Hematology

**Professional  
experiences**

1980-92 University Researcher, University of Modena  
1984-86 Post-doctoral fellowship. Temple University, Philadelphia  
1990 National Award "Alberto Neri", Favretto Foundation  
1992-99 Associate Professor in Cell biology, University of Modena  
1992- Head of the cell biology lab, Dept Biomedical Sciences, University of Modena  
1977-2000 Head of the DNA sequencing, oligonucleotides and peptides synthesis  
laboratory, Department of Biomedical Sciences, University of Modena and Reggio Emilia  
1999- Full Professor of cell biology, University of Modena and Reggio Emilia  
2000- Head of microarrays lab, Department of Biomedical Sciences, University of Modena  
and Reggio Emilia.  
2003-06 Director of the PhD School in Molecular and Regenerative Medicine, University of  
Modena and Reggio Emilia.  
2004-2006 Member of the steering committee of the European Leukemia Research Net  
2006-08 Director of the Department of Biomedical Sciences, University of Modena and  
Reggio Emilia.  
2008- Dean of the Faculty of Biosciences and Biotechnology, University of Modena and  
Reggio Emilia  
2008- Research Officer of the University of Modena and Reggio Emilia.  
2009 Member of the management committee of the Eugesma Cost Action.  
2010 President of the Italian Biotechnology Conference.  
2012-2013 Director of the Department of Life Sciences  
2012 Member of the scientific habilitation national commission for applied Biology.  
2013 Prorettore vicario dell'Università di Modena e Reggio Emilia

**Awards**

1975 degree award "Giacomozzi Foundation"  
1976 Degree awards "Lepetit" and "Adolfo Bellentani"  
1977-1978 Scholarship of the Italian Association against Leukemias (AIL)  
1979-80 Scholarship "Italian League against cancer"

1980 EMBO fellowship, Beatson Institute for Cancer Res, Glasgow  
1990 National Award "Alberto Neri", Favretto Foundation

## Research activity

Prof. Sergio Ferrari completed his University studies obtaining the degree in Medicine summa cum laude in 1975 at the University of Modena, Italy, discussing an experimental thesis entitled "Quantitative evaluation of dsRNA in normal lymphocytes and leukemic blast cells nuclei by immunochemical method". This experimental work has been carried on in the Prof. U. Torelli's laboratory at the Institute of Medical Pathology, Modena. This thesis was published by the Modena University Press and Dr. Ferrari obtained for this work the following awards: in 1975 "Giacomozzi Foundation" and in 1976 "Lepetit" and "Adolfo Bellentani". In 1977 winner of a national AIL (Italian Association against Leukemias) fellowship. He obtained, in 1978, the PhD in Clinical and Experimental Hematology at the University of Modena with the highest mark 70/70 and laude discussing the thesis entitled "Experimental evidence of dsRNA in human lymphocytes nuclei". Researcher at the University of Modena, School of Medicine, Institute of Haematology, from 1980 to 1992; In 1980 he obtained a short term EMBO fellowship to participate to a workshop "Regulation of Gene Expression" in Glasgow, England. From 1984 to 1986 he had a post-doctoral fellowship at Temple University, Philadelphia, U.S.A. In 1989 he was qualified in a national examination for a vice-Director position at the Regina Elena Cancer Research Institute, Laboratory of Molecular Oncogenesis, Rome. In 1990 he received the National Award "Alberto Neri" by "Riccardo Favretto Foundation" for his biomedical research in the field of Acute Myeloid Leukemias. Associate Professor of Cell Biology (SSD BIO/13 Applied Biology) at the University of Modena, School of Medicine, Department of Biomedical Sciences, from 1992 to 1999; Full Professor of Cell Biology at the University of Modena and Reggio Emilia, School of Medicine, Department of Biomedical Sciences, from 1999. Actually he is staff member of the Bioscience and Biotechnology Faculty, University of Modena and Reggio Emilia Research activity: from 1975 to 1983 he did research in the Experimental Hematology Center, University of Modena, being involved in the production and characterization of dsRNA specific antibodies; studies on pre-mRNA and Ribosomal RNA precursors metabolism in normal and leukemic cells; studies on the kinetic complexity and abundance of normal and leukemic DNA and mRNA molecules by using liquid reassociation and hybridisation techniques. Furthermore, in the same period, he studied the gene organization and expression of several oncogenes, particularly c-Myb, c-Myc and c-Fes, in acute and chronic leukemias. In 1980, with a short EMBO fellowship, he worked at the Beatson Institute for Cancer Research in Glasgow, U.K., with Dr. George Birnie, optimizing the methodology of differentially cDNA libraries screening and molecular characterization of the selected clones. From 1984 to 1986, he did research, as a post-Doc, at the Temple University, Department of Pathology, Philadelphia, USA, with Dr. Renato Baserga, studying cell cycle related genes. Particularly, he was involved in cloning of human Vimentin, Calyculin and ADP/ATP translocase genes from mouse cDNA libraries, their genome characterization by sequencing, functional characterization of the promoter regions by deletion mutants and chromosome gene mapping by in situ hybridization and Southern blot analysis of a panel of human/mouse hybrid cell lines.

Since 1987, his research work was based on the study of the molecular mechanisms underlying the differentiation block of acute leukemia blast cells and on the identification of regulatory genes of myeloid differentiation and apoptosis of normal and leukemic cells. Particularly, several gene products were inactivated by using "antisense strategies", to understand their functional role in cell proliferation, differentiation and apoptosis of myeloid cells, and among them c-Myb, c-Fes protooncogenes and the Bax gene. Furthermore, he is involved in the identification of interacting proteins of the signal transduction pathways of non receptor tyrosine kinases, particularly of the c-Fes protooncogene. Since 1994, he is also involved in the study of the functional role of VDR and RAR alpha nuclear receptors in normal and leukemic hematopoiesis and in the development of new differentiation and pro-apoptotic therapeutic strategies in acute myeloid leukemia blast cells. Original results suggest that these nuclear receptors are involved in the myeloid commitment phase of hemopoietic stem cells. For a short period of time, from 1997 to 2000 he was also involved in studies of molecular genetic and particularly in the mutational analysis of BrCa1 and BrCa2 in the hereditary types of breast cancer and in the organization, development and automation of genome analysis in collaboration with the oncology group in Modena and with the "Policlinico" hospital. Since 1998 he carried on researches for the development, synthesis and evaluation of the biological activity of IL-6 antagonist peptides, c-Fes SH2 inhibitory peptides, transloading peptides and in the development of plasmid and retroviral expression vectors to use in antisense (SiRNA) and overexpression strategies to evaluate the functional role of myeloid and erythroid specific genes in cell lines and in human and

mouse hematopoietic stem cells. Since 2000 he developed, in the Department of Biomedical Sciences, the methodology of DNA microarrays and the bioinformatics tools for data analysis. These studies have been applied to the genetic control of normal myelopoiesis and particularly to the study of hemopoietic stem cells obtained from different sources (bone marrow, peripheral blood and cord blood) but also to mesangioblast in collaboration with Prof. Giulio Cossu, DIBIT (Milan) and to leukemic hemopoietic stem cells obtained from patients with CML in collaboration with the Bologna University. Actually is doing research on specific hemopoietic transcription factors involved in the commitment phase of hemopoietic stem cell and, based on different methodological approaches, to try to define the genetic programs underlying the lineage choice of HSC and therefore the differentiation plasticity. He is head of the cellular and molecular biology laboratories and also of the DNA microarrays lab. of the Biomedical Sciences Department, University of Modena. He is member of the national board of A.I.B.G (Italian Association of Biology and Genetic). He was member of the national committee of other scientific societies and among them ABCD (Italian Association of Cell Biology and Differentiation) and SIES (Italian Society of Experimental Hematology). Since 1990 is member of the AACR (American Association for Cancer Research). His scientific activity can be summarized as follow: 130 peer reviewed scientific papers listed below; 20 scientific paper on international journals not cited in the SCI; 12 chapters on scientific books; more than 300 abstracts of national and international congress and more than 250 conferences, seminars, lectures and communications in Italy, Europe and USA. Since 2004 is member of the steering committee of the Leukemia Res. Net European program for the molecular phenotyping of leukemias. Since 2009 is member of the management committee of the EuGESMA Cost Action

**Current Research Fields**

1. Genetic regulation of normal human myelopoiesis. This topic is carried on by a systems biology approach using an in vitro model of myeloid differentiation (purification of human cord blood hematopoietic stem cells and in vitro growth and differentiation. The methodology include: purification and characterization of cell populations (immune-phenotype, morphology, molecular markers etc), gene transfer in HSCs by retroviral vectors for over-expression studies, and gene silencing strategies, in vitro differentiation assays, clonogenic assay, gene expression profiling by Affymetrix system, validation of data with quantitative PCR or protein detection. Development, in collaboration with Dr Bicciato, of bio-informatic tools to develop transcriptome maps to identify silent or differentially expressed or co-regulated gene clusters and the corresponding chromatin domains in HSCs and myeloid precursors.
2. Positional effect of gene expression in inter-phase nuclei of normal and leukemic myeloid cells (stem and myeloid precursors) in a 3D model and characterization of chromosome territories. By this methodology is possible to study the interactions between co-regulated cluster of genes, as well as interactions between silent or differentially expressed clusters and specialized nuclear domains and their possible modification in the differentiation transitions. As far as Chromosome territories is concerned, The main goal is to assess a possible dynamic variation and association in CTs three dimensional organization along differentiation and to verify the tissue specific model. The CT localization in inter-phase nuclei are of particular interest in leukemic blast cells since non random chromosome translocations are frequent in different types of leukemia. In fact several data suggest that translocations occur preferentially among proximally positioned genome regions.
3. Hemopoietic Stem cell niches biology. The experimental approach is based on co-cultures of HSCs with other cell types of the bone marrow microenvironment such as osteoblasts, adipocytes, endothelial cells, and other stromal cells. The main goal is to study by gene expression profiling how cell adhesion in the different kind of niches support proliferation or differentiation. These experiments can be performed with normal HSCs or leukemic cells.
4. New research line: Massive genome sequencing by 454, operative june 2010, to study the exome and all the coding and coding RNA populations in normal, myelodisplastic and leukemic HSCs.

Mother tongue **Italian**

Other languages **English**

**Publications** Gemelli C, Zanocco Marani T, Bicciato S, Mazza EM, Boraschi D, Salsi V, Zappavigna V, Parenti S, Selmi T, Tagliafico E, Ferrari S, Grande A (2014). MafB is a downstream target of the IL-10/STAT3 signaling pathway, involved in the regulation of macrophage de-activation..

Tenedini E, Bernardis I, Artusi V, Artuso L, Roncaglia E, Guglielmelli P, Pieri L, Bogani C, Biamonte F, Rotunno G, Mannarelli C, Bianchi E, Pancrazzi A, Fanelli T, Malagoli Tagliazucchi G, Ferrari S, Manfredini R, Vannucchi AM, Tagliafico E (2013). Targeted cancer exome sequencing reveals recurrent mutations in myeloproliferative neoplasms. *Leukemia*. IF 8.30

Salati S, Lisignoli G, Manfredini C, Pennucci V, Zini R, Bianchi E, Norfo R, Facchini A, Ferrari S, Manfredini R. (2013). Co-culture of hematopoietic stem/progenitor cells with human osteoblasts favours mono/macrophage differentiation of the expense of the erythroid lineage. *PLOS One* 8 (1), e53496. IF 3.73

Maciotta S, Meregalli M, Cassinelli L, Parolini D, Farini A, Del Faro G, Gandolfi F, Forcato M, Ferrari S, Gabellini D, Bicciato S, Cossu G, Torrente Y. (2012) Hmgb3 is regulated by microRNA-206 during muscle regeneration. *PLOS ONE* 7: 1-14. IF 3.73

Zini R, Norfo R, Ferrari F, Bianchi E, Salati S, Pennucci V, Sacchi G, Carboni C, Ceccherelli GB, Tagliafico E, Ferrari S, Manfredini R. (2012). Valproic Acid triggers erythro/megakaryocyte lineage decision through induction of GF11B and MLLT3 expression. *EXPERIMENTAL HEMATOLOGY*, 40 (12): 1043-1054 e6. IF 3.11

Salvestrini V, Zini R, Rossi L, Gulinelli S, Manfredini R, Bianchi E, Piacibello W, Caione L, Migliardi G, Ricciardi MR, Tafuri A, Romano M, Salati S, Di Virgilio F, Ferrari S, Bacarani M, Ferrari D, Lemoli RM. (2012). Purinergic signaling inhibits human acute myeloblastic leukemia cell proliferation, migration, and engraftment in immunodeficient mice. *BLOOD*, vol. 119, p. 217-226, ISSN: 0006-4971. IF 9.06

Selmi T, Martello A, Vignudelli T, Ferrari E, Grande A, Gemelli C, Salomoni P, Ferrari S, Zanocco-Marani T. (2012). ZFP36 expression impairs glioblastoma cell lines viability and invasiveness by targeting multiple signal transduction pathways. *CELL CYCLE*, vol. 11(10), p. 1977-1987, ISSN: 1538-4101

Lorena Losi, Sandra Parenti, Fabrizio Ferrarini, Francesco Rivasi, Margherita Gavioli, Gianni Natalini, Sergio Ferrari, Alexis Grande (2011). Down-regulation of  $\mu$ -protocadherin expression is a common event in colorectal carcinogenesis. *HUMAN PATHOLOGY*, vol. 42, p. 960-971, ISSN: 0046-8177

Pierre-Antoine Defossez, Cheli S., Francois S., Bodega B., Ferrari F., Tenedini E., Roncaglia E., Ferrari S., Ginelli E., Meneveri R. Expression profiling of FSHD-1 and FSHD-2 cells during myogenic differentiation evidences common and distinctive gene dysregulation patterns. *Plos ONE* 6: 1-11, 2011 (e20966)

Theilgaard-Mönch K, Boultonwood J, Ferrari S, Giannopoulos K, Hernandez-Rivas JM, Kohlmann A, Morgan M, Porse B, Tagliafico E, Zwaan CM, Wainscoat J, Van den Heuvel-Eibrink MM, Mills K, Bullinger L (2011). Gene expression profiling in MDS and AML: potential and future avenues. *Leukemia* Jun;25(6):909-20. doi: 10.1038/leu.2011.48. Epub 2011 Mar 29.

Lenzi L, Facchin F, Piva F, Giuliotti M, Pelleri MC, Frabetti F, Vitale L, Casadei R, Canaider S, Bortoluzzi S, Coppe A, Danieli GA, Principato G, Ferrari S, Strippoli P. TRAM (Transcriptome Mapper): database-driven creation and analysis of transcriptome maps from multiple sources. *BMC Genomics*. 2011 Feb 18;12:121.

Losi L, Parenti S, Ferrarini F, Rivasi F, Gavioli M, Natalini G, Ferrari S, Grande A. Down-regulation of  $\mu$ -protocadherin expression is a common event in colorectal carcinogenesis. *Hum Pathol*. 2011 Mar 1. [Epub ahead of print]

Ferrari D, Gulinelli S, Salvestrini V, Lucchetti G, Zini R, Manfredini R, Caione L, Piacibello W,

Ciciarello M, Rossi L, Idzko M, Ferrari S, Di Virgilio F, Lemoli RM. Purinergic stimulation of human mesenchymal stem cells potentiates their chemotactic response to CXCL12 and increases the homing capacity and production of proinflammatory cytokines. *Exp Hematol*. 2011 Mar;39(3):360-74, 374.e1-5. Epub 2010 Dec 9.

Vignudelli T, Selmi T, et al. ZFP36L1 Negatively Regulates Erythroid Differentiation of CD34+ Hematopoietic Stem Cells by Interfering with Stat5b Pathway. *Mol Biol Cell*. 2010 Aug 11.

Tenedini E, Roncaglia E, et al. Integrated Analysis of micro RNA and mRNA expression profiles in physiological myelopoiesis: role of Hsa-mir-299-5p in CD34+ progenitor cells committment. *Celle Death and Disease*. 2010;1:1-6.

Parenti S, Ferrarini F, et al. Mesalazine inhibits the beta-catenin signalling pathway acting through the upregulation of mu-protocadherin gene in colo-rectal cancer cells. *Aliment Pharmacol Ther*. 2010 Jan;31(1):108-19.

Bianchi E, Zini R, et al. c-Myb supports erythropoiesis through the transactivation of KLF1 and LMO2 expression. *Blood*. 2010 Aug 4.

Zanocco-Marani T, Vignudelli T, et al. TFE3 transcription factor regulates the expression of MAFB during macrophage differentiation. *Exp Cell Res*. 2009 Jul 1;315(11):1798-808.

Pluchino S, Zanotti L, et al. Regeneration and repair in multiple sclerosis: the role of cell transplantation. *Neurosci Lett*. 2009 Jun 12;456(3):101-6.

Lemoli RM, Salvestrini V, et al. Molecular and functional analysis of the stem cell compartment of chronic myelogenous leukemia reveals the presence of a CD34- cell population with intrinsic resistance to imatinib. *Blood*. 2009 Dec 10;114(25):5191-200.

Coppe A, Ferrari F, et al. Motif discovery in promoters of genes co-localized and co-expressed during myeloid cells differentiation. *Nucleic Acids Res*. 2009 Feb;37(2):533-49.

Cellai C, Laurenzana A, et al. Mechanistic insight into WEB-2170-induced apoptosis in human acute myelogenous leukemia cells: the crucial role of PTEN. *Exp Hematol*. 2009 Oct;37(10):1176-85 e21.

Catani L, Zini R, et al. Molecular profile of CD34+ stem/progenitor cells according to JAK2V617F mutation status in essential thrombocythemia. *Leukemia*. 2009 May;23(5):997-1000.

Salati S, Zini R, et al. Role of CD34 antigen in myeloid differentiation of human hematopoietic progenitor cells. *Stem Cells*. 2008 Apr;26(4):950-9.

Gemelli C, Orlandi C, et al. The vitamin D3/Hox-A10 pathway supports MafB function during the monocyte differentiation of human CD34+ hemopoietic progenitors. *J Immunol*. 2008 Oct 15;181(8):5660-72.

Salati S, Bianchi E, et al. Eosinophils, but not neutrophils, exhibit an efficient DNA repair machinery and high nucleolar activity. *Haematologica*. 2007 Oct;92(10):1311-8.

Rossi L, Manfredini R, et al. The extracellular nucleotide UTP is a potent inducer of hematopoietic stem cell migration. *Blood*. 2007 Jan 15;109(2):533-42.

Piccaluga PP, Agostinelli C, et al. Gene expression analysis of angioimmunoblastic lymphoma indicates derivation from T follicular helper cells and vascular endothelial growth factor deregulation. *Cancer Res*. 2007 Nov 15;67(22):10703-10.

Magnoni C, Tenedini E, et al. Transcriptional profiles in melanocytes from clinically unaffected skin distinguish the neoplastic growth pattern in patients with melanoma. *Br J Dermatol*. 2007 Jan;156(1):62-71.

Guglielmelli P, Zini R, et al. Molecular profiling of CD34+ cells in idiopathic myelofibrosis identifies a set of disease-associated genes and reveals the clinical significance of Wilms'

tumor gene 1 (WT1). *Stem Cells*. 2007 Jan;25(1):165-73.

Guglielmelli P, Tozzi L, et al. MicroRNA expression profile in granulocytes from primary myelofibrosis patients. *Exp Hematol*. 2007 Nov;35(11):1708-18.

Ferrari F, Bortoluzzi S, et al. Novel definition files for human GeneChips based on GeneAnnot. *BMC Bioinformatics*. 2007;8:446.

Ferrari F, Bortoluzzi S, et al. Novel definition files for human GeneChips based on GeneAnnot. *BMC Bioinformatics*. 2007;8:446.

Ferrari F, Bortoluzzi S, et al. Genomic expression during human myelopoiesis. *BMC Genomics*. 2007;8:264.

Sacchetti B, Funari A, Michienzi S, Di Cesare S, Piersanti S, Saggio I, Tagliafico E, Ferrari S, Robey PG, Riminucci M, Bianco P. (2007). Self-renewing osteoprogenitors in bone marrow sinusoids can organize a hematopoietic microenvironment. *CELL*, vol. 131, p. 324-336, ISSN: 0092-8674

Biressi S, Tagliafico E, et al. Intrinsic phenotypic diversity of embryonic and fetal myoblasts is revealed by genome-wide gene expression analysis on purified cells. *Dev Biol*. 2007 Apr 15;304(2):633-51.

Zanocco-Marani T, Vignudelli T, et al. Tfe3 expression is closely associated to macrophage terminal differentiation of human hematopoietic myeloid precursors. *Exp Cell Res*. 2006 Dec 10;312(20):4079-89.

Testoni B, Borrelli S, et al. Identification of new p63 targets in human keratinocytes. *Cell Cycle*. 2006 Dec;5(23):2805-11.

Tagliafico E, Tenedini E, et al. Identification of a molecular signature predictive of sensitivity to differentiation induction in acute myeloid leukemia. *Leukemia*. 2006 Oct;20(10):1751-8.

Rutella S, Bonanno G, et al. Hepatocyte growth factor favors monocyte differentiation into regulatory interleukin (IL)-10++IL-12low/neg accessory cells with dendritic-cell features. *Blood*. 2006 Jul 1;108(1):218-27.

E. Colombo, SG Giannelli, R. Galli, E. Tagliafico, C. Foroni, E. Tenedini, S. Ferrari, S. Ferrari, G. Corte, A. Vescovi, G. Cossu, V. Broccoli (2006). Embryonic stem-derived versus somatic neural stem cells: A comparative analysis of their developmental potential and molecular phenotype. *STEM CELLS*, vol. 24, p. 825-834, ISSN: 1066-5099

Gemelli C, Montanari M, et al. Virally mediated MafB transduction induces the monocyte commitment of human CD34+ hematopoietic stem/progenitor cells. *Cell Death Differ*. 2006 Oct;13(10):1686-96.

Casorelli I, Tenedini E, et al. Identification of a molecular signature for leukemic promyelocytes and their normal counterparts: Focus on DNA repair genes. *Leukemia*. 2006 Nov;20(11):1978-88.

Montanari M, Gemelli C, et al. Correlation between differentiation plasticity and mRNA expression profiling of CD34+-derived CD14- and CD14+ human normal myeloid precursors. *Cell Death Differ*. 2005 Jun 10.

Manfredini R, Zini R, et al. The kinetic status of hematopoietic stem cell subpopulations underlies a differential expression of genes involved in self-renewal, commitment, and engraftment. *Stem Cells*. 2005 Apr;23(4):496-506.

Lemoli RM, Bertolini F, et al. Stem cell plasticity: time for a reappraisal? *Haematologica*. 2005 Mar;90(3):360-81.

Tenedini E, Fagioli ME, et al. Gene expression profiling of normal and malignant CD34-derived megakaryocytic cells. *Blood*. 2004 Nov 15;104(10):3126-35.

- Tagliafico E, Brunelli S, et al. TGFbeta/BMP activate the smooth muscle/bone differentiation programs in mesoangioblasts. *J Cell Sci.* 2004 Sep 1;117(Pt 19):4377-88.
- Marroni F, Aretini P, et al. Evaluation of widely used models for predicting BRCA1 and BRCA2 mutations. *J Med Genet.* 2004 Apr;41(4):278-85.
- Brunelli S, Tagliafico E, et al. Msx2 and necdin combined activities are required for smooth muscle differentiation in mesoangioblast stem cells. *Circ Res.* 2004 Jun 25;94(12):1571-8.
- Tagliafico E, Siena M, et al. Requirement of the coiled-coil domains of p92(c-Fes) for nuclear localization in myeloid cells upon induction of differentiation. *Oncogene.* 2003 Mar 20;22(11):1712-23.
- Manfredini R, Tenedini E, et al. Development of an IL-6 antagonist peptide that induces apoptosis in 7TD1 cells. *Peptides.* 2003 Aug;24(8):1207-20.
- Lemoli RM, Bertolini F, et al. Functional and kinetic characterization of granulocyte colony-stimulating factor-primed CD34+ human stem cells. *Br J Haematol.* 2003 Nov;123(4):720-9.
- Cortesi L, Turchetti D, et al. Italian family with two independent mutations: 3358T/A in BRCA1 and 8756delA in BRCA2 genes. *Eur J Hum Genet.* 2003 Mar;11(3):210-4.
- Tagliafico E, Tenedini E, et al. Gene expression profile of Vitamin D3 treated HL60 cells shows an incomplete molecular phenotypic conversion to monocytes. *Cell Death Differ.* 2002 Nov;9(11):1185-95.
- Grande A, Montanari M, et al. Physiological levels of 1alpha, 25 dihydroxyvitamin D3 induce the monocytic commitment of CD34+ hematopoietic progenitors. *J Leukoc Biol.* 2002 Apr;71(4):641-51.
- Cortesi L, Canossi B, et al. Usefulness of breast MRI in a patient with genetic risk. *J Exp Clin Cancer Res.* 2002 Sep;21(3 Suppl):131-6.
- Grande A, Montanari M, et al. A functionally active RARalpha nuclear receptor is expressed in retinoic acid non responsive early myeloblastic cell lines. *Cell Death Differ.* 2001 Jan;8(1):70-82.
- Consolini R, Pala S, et al. Effects of vitamin D on the growth of normal and malignant B-cell progenitors. *Clin Exp Immunol.* 2001 Nov;126(2):214-9.
- Bertolotti M, Carulli L, et al. Suppression of bile acid synthesis, but not of hepatic cholesterol 7alpha-hydroxylase expression, by obstructive cholestasis in humans. *Hepatology.* 2001 Aug;34(2):234-42.
- Turchetti D, Cortesi L, et al. BRCA1 mutations and clinicopathological features in a sample of Italian women with early-onset breast cancer. *Eur J Cancer.* 2000 Oct;36(16):2083-9.
- Cortesi L, Turchetti D, et al. Comparison between genotype and phenotype identifies a high-risk population carrying BRCA1 mutations. *Genes Chromosomes Cancer.* 2000 Feb;27(2):130-5.
- Parise F, Simone L, et al. Construction and in vitro functional evaluation of a low-density lipoprotein receptor/transferrin fusion protein as a therapeutic tool for familial hypercholesterolemia. *Hum Gene Ther.* 1999 May 1;10(7):1219-28.
- Manfredini R, Trevisan F, et al. Induction of a functional vitamin D receptor in all-trans-retinoic acid-induced monocytic differentiation of M2-type leukemic blast cells. *Cancer Res.* 1999 Aug 1;59(15):3803-11.
- Carulli L, Ferrari S, et al. Regulation of ob gene expression: evidence for epinephrine-induced suppression in human obesity. *J Clin Endocrinol Metab.* 1999 Sep;84(9):3309-12.

- Rizzo MG, Zepparoni A, et al. Wt-p53 action in human leukaemia cell lines corresponding to different stages of differentiation. *Br J Cancer*. 1998 May;77(9):1429-38.
- Manfredini R, Capobianco ML, et al. Antisense inhibition of Bax mRNA increases survival of terminally differentiated HL60 cells. *Antisense Nucleic Acid Drug Dev*. 1998 Aug;8(4):341-50.
- Manfredini R, Balestri R, et al. Antisense inhibition of c-fes proto-oncogene blocks PMA-induced macrophage differentiation in HL60 and in FDC-P1/MAC-11 cells. *Blood*. 1997 Jan 1;89(1):135-45.
- Lemoli RM, Fortuna A, et al. Interleukin-9 in human myeloid leukemia cells. *Leuk Lymphoma*. 1997 Aug;26(5-6):563-73.
- Grande A, Manfredini R, et al. Presence of a functional vitamin D receptor does not correlate with vitamin D3 phenotypic effects in myeloid differentiation. *Cell Death Differ*. 1997 Aug;4(6):497-505.
- Lemoli RM, Fortuna A, et al. Interleukin-9 stimulates the proliferation of human myeloid leukemic cells. *Blood*. 1996 May 1;87(9):3852-9.
- Torelli G, Barozzi P, et al. Targeted integration of human herpesvirus 6 in the p arm of chromosome 17 of human peripheral blood mononuclear cells in vivo. *J Med Virol*. 1995 Jul;46(3):178-88.
- Lemoli RM, Fogli M, et al. Interleukin-11 (IL-11) acts as a synergistic factor for the proliferation of human myeloid leukaemic cells. *Br J Haematol*. 1995 Oct;91(2):319-26.
- Grande A, Manfredini R, et al. All-trans-retinoic acid induces simultaneously granulocytic differentiation and expression of inflammatory cytokines in HL-60 cells. *Exp Hematol*. 1995 Feb;23(2):117-25.
- Grande A, Manfredini R, et al. All-trans-retinoic acid induces simultaneously granulocytic differentiation and expression of inflammatory cytokines in HL-60 cells. *Exp Hematol*. 1995 Feb;23(2):117-25.
- Ferrari S, Grande A, et al. Role of c-fes protooncogene in myeloid differentiation. *Cell Death Differ*. 1995 Jul;2(3):155-62.
- Pincelli C, Sevigiani C, et al. Expression and function of nerve growth factor and nerve growth factor receptor on cultured keratinocytes. *J Invest Dermatol*. 1994 Jul;103(1):13-8.
- Petraglia F, Gallinelli A, et al. Local production and action of follistatin in human placenta. *J Clin Endocrinol Metab*. 1994 Jan;78(1):205-10.
- Lemoli RM, Fortuna A, et al. Expression and functional role of c-kit ligand (SCF) in human multiple myeloma cells. *Br J Haematol*. 1994 Dec;88(4):760-9.
- Girolomoni G, Zambruno G, et al. Expression of B7 costimulatory molecule in cultured human epidermal Langerhans cells is regulated at the mRNA level. *J Invest Dermatol*. 1994 Jul;103(1):54-9.
- Ferrari S, Manfredini R, et al. Antisense strategies in leukemia. *Haematologica*. 1994 Mar-Apr;79(2):107-11.
- Ferrari S, Manfredini R, et al. Antiapoptotic effect of c-fes protooncogene during granulocytic differentiation. *Leukemia*. 1994 Apr;8 Suppl 1:S91-4.
- Manfredini R, Grande A, et al. Inhibition of c-fes expression by an antisense oligomer causes apoptosis of HL60 cells induced to granulocytic differentiation. *J Exp Med*. 1993 Aug 1;178(2):381-9.
- Luppi M, Marasca R, et al. Three cases of human herpesvirus-6 latent infection: integration of viral genome in peripheral blood mononuclear cell DNA. *J Med Virol*. 1993 May;40(1):44-52.



- Ferrari S, Grande A, et al. Overexpression of c-kit in a leukemic cell population carrying a trisomy 4 and its relationship with the proliferative capacity. *Leuk Lymphoma*. 1993 Apr;9(6):495-501.
- Ferrari S, Grande A, et al. Expression of interleukins 1, 3, 6, stem cell factor and their receptors in acute leukemia blast cells and in normal peripheral lymphocytes and monocytes. *Eur J Haematol*. 1993 Mar;50(3):141-8.
- Ferrari S, Tagliafico E, et al. Abundance of the primary transcript and its processed product of growth-related genes in normal and leukemic cells during proliferation and differentiation. *Cancer Res*. 1992 Jan 1;52(1):11-6.
- Ferrari S, Manfredini R, et al. Antisense strategies to characterize the role of genes and oncogenes involved in myeloid differentiation. *Ann N Y Acad Sci*. 1992 Oct 28;660:11-26.
- Ferrari S, Manfredini R, et al. Proliferation, differentiation arrest, and survival in leukemic blast cells. *Ann N Y Acad Sci*. 1992 Nov 21;663:202-14.
- Ferrari S, Grande A, et al. Terminal differentiation. *Ann N Y Acad Sci*. 1992 Nov 21;663:180-6.
- Bonati A, Zanelli P, et al. T-cell receptor beta-chain gene rearrangement and expression during human thymic ontogenesis. *Blood*. 1992 Mar 15;79(6):1472-83.
- Torelli G, Marasca R, et al. Human herpesvirus-6 in human lymphomas: identification of specific sequences in Hodgkin's lymphomas by polymerase chain reaction. *Blood*. 1991 May 15;77(10):2251-8.
- Raschella G, Negroni A, et al. Transcription of N-myc and proliferation-related genes is linked in human neuroblastoma. *Cancer Lett*. 1991 Jan;56(1):45-51.
- Perrotti D, Cimino L, et al. Differential expression of transforming growth factor-beta 1 gene in 3LL metastatic variants. *Cancer Res*. 1991 Oct 15;51(20):5491-4.
- Negroni A, Scarpa S, et al. Decrease of proliferation rate and induction of differentiation by a MYCN antisense DNA oligomer in a human neuroblastoma cell line. *Cell Growth Differ*. 1991 Oct;2(10):511-8.
- Merelli E, Selleri L, et al. Mitochondrial DNA deletion in oculoskeletal myopathy. *Eur Neurol*. 1991;31(3):160-3.
- Marazzi L, Parodi MT, et al. Coordinate change of c-myc, transferrin receptor and H3 gene expression precedes induction of haemoglobin-producing cells of the leukaemia K562 cell line treated with cis-diamminedichloroplatinum (II). *Anticancer Res*. 1991 Mar-Apr;11(2):947-52.
- Selleri L, Emilia G, et al. Chronic myelogenous leukemia with typical clinical and morphological features can be Philadelphia chromosome negative and "bcr negative". *Hematol Pathol*. 1990;4(2):67-77.
- Ferrari S, Tagliafico E, et al. Overexpression of the MPO gene occurring in a case of APL without unusual genotypic characteristics. *Leuk Res*. 1990;14(9):735-42.
- Ferrari S, Tagliafico E, et al. Ratios between the abundance of messenger RNA and the corresponding protein of two growth-related genes, c-myc and vimentin, in leukemia blast cells. *Cancer Res*. 1990 Apr 1;50(7):1988-91.
- Ferrari S, Manfredini R, et al. Noncoordinated expression of S6, S11, and S14 ribosomal protein genes in leukemic blast cells. *Cancer Res*. 1990 Sep 15;50(18):5825-8.
- Ferrari S, Donelli A, et al. Differential effects of c-myc and c-fes antisense oligodeoxynucleotides on granulocytic differentiation of human myeloid leukemia HL60 cells. *Cell Growth Differ*. 1990 Nov;1(11):543-8.
- Ferrari S, Ceccherelli G, et al. Detection of low abundance mRNA of myeloid specific genes in

- cells of acute and chronic lymphoid leukemias by cRNA hybridization. *Leukemia*. 1990 Oct;4(10):688-93.
- Selleri L, Emilia G, et al. Philadelphia-positive chronic myelogenous leukemia with typical bcr/abl molecular features and atypical, prolonged survival. *Leukemia*. 1989 Jul;3(7):538-42.
- Ferrari S, Tagliafico E, et al. Expression of the myeloperoxidase gene in acute and chronic myeloid leukemias: relationship to the expression of cell cycle-related genes. *Leukemia*. 1989 Jun;3(6):423-30.
- Emilia G, Temperani P, et al. Cytogenetic and molecular studies in primary myelofibrosis. *Cancer Genet Cytogenet*. 1989 Mar;38(1):101-13.
- Marcus EM, Smith BA, et al. BclI RFLP for the human vimentin gene. *Nucleic Acids Res*. 1988 Sep 26;16(18):9068.
- Ghezzi F, Laurent E, et al. Growth factor regulation of the promoter for calcyclin, a growth-regulated gene. *J Biol Chem*. 1988 Apr 5;263(10):4758-63.
- Ferrari S, Mariano MT, et al. Myeloperoxidase gene expression in blast cells with a lymphoid phenotype in cases of acute lymphoblastic leukemia. *Blood*. 1988 Sep;72(3):873-6.
- Ferrari S, Calabretta B, et al. Expression of oncogenes and cell cycle related genes in acute and chronic leukemias. *Leukemia*. 1988 Dec;2(12 Suppl):160S-6S.
- Ferrari S, Calabretta B, et al. Expression of c-myc and induction of DNA synthesis by platelet-poor plasma in human diploid fibroblasts. *Exp Cell Res*. 1988 Jan;174(1):25-33.
- Kaczmarek L, Calabretta B, et al. Cell-cycle-dependent expression of human ornithine decarboxylase. *J Cell Physiol*. 1987 Sep;132(3):545-51.
- Ferrari S, Cannizzaro LA, et al. The gene encoding human vimentin is located on the short arm of chromosome 10. *Am J Hum Genet*. 1987 Oct;41(4):616-26.
- Ferrari S, Calabretta B, et al. Structural and functional analysis of a growth-regulated gene, the human calcyclin. *J Biol Chem*. 1987 Jun 15;262(17):8325-32.
- Ferrari S, Baserga R. Oncogenes and cell cycle genes. *Bioessays*. 1987 Jul;7(1):9-13.
- Battini R, Ferrari S, et al. Molecular cloning of a cDNA for a human ADP/ATP carrier which is growth-regulated. *J Biol Chem*. 1987 Mar 25;262(9):4355-9.
- Baserga R, Ferrari S. The molecular basis of cell reproduction; have we been looking in the wrong place? *Haematologica*. 1987 Jan-Feb;72(1):1-4.
- Ide T, Ninomiya-Tsuji J, et al. Expression of growth-regulated genes in tsJT60 cells, a temperature-sensitive mutant of the cell cycle. *Biochemistry*. 1986 Nov 4;25(22):7041-6.
- Ferrari S, Narni F, et al. Expression of growth-regulated genes in human acute leukemias. *Cancer Res*. 1986 Oct;46(10):5162-6.
- Ferrari S, Battini R, et al. Coding sequence and growth regulation of the human vimentin gene. *Mol Cell Biol*. 1986 Nov;6(11):3614-20.
- Emilia G, Donelli A, et al. Cellular levels of mRNA from c-myc, c-myb and c-fes oncogenes in normal myeloid and erythroid precursors of human bone marrow: an in situ hybridization study. *Br J Haematol*. 1986 Feb;62(2):287-92.
- Torelli G, Selleri L, et al. Activation of c-myb expression by phytohemagglutinin stimulation in normal human T lymphocytes. *Mol Cell Biol*. 1985 Oct;5(10):2874-7.
- Rittling SR, Gibson CW, et al. The effect of cycloheximide on the expression of cell cycle dependent genes. *Biochem Biophys Res Commun*. 1985 Oct 15;132(1):327-35.

Ferrari S, Torelli U, et al. Study of the levels of expression of two oncogenes, c-myc and c-myb, in acute and chronic leukemias of both lymphoid and myeloid lineage. *Leuk Res.* 1985;9(7):833-42.

Ferrari S, Torelli U, et al. Expression of human c-fes onc-gene occurs at detectable levels in myeloid but not in lymphoid cell populations. *Br J Haematol.* 1985 Jan;59(1):21-5.

Torelli G, Donelli A, et al. Sequence complexity and diversity of polyadenylated RNA molecules transcribed in human myeloid cells. Leukemic myeloblasts and HL60 promyelocytes uninduced and induced to terminal differentiation with retinoic acid. *Differentiation.* 1984;27(2):133-40

Ferrari S, Battini R, et al. Isolation of a cDNA clone containing a sequence complementary to the intestinal calcium-binding protein of the chick. *Gene.* 1984 Oct;30(1-3):233-6.

Torelli U, Torelli G, et al. Different frequency classes of sequences in heterogeneous nuclear RNA of normal promyelocytes and lymphoblasts and of leukemic blast cells of circulating blood and of the HL60 line. *Haematol Blood Transfus.* 1981;26:517-9.

Torelli G, Ferrari S, et al. Sequence complexity and diversity of polyadenylated RNA molecules of human normal resting, PHA-stimulated and leukemic lymphocytes. *Nucleic Acids Res.* 1981 Dec 21;9(24):7013-32.

Torelli UL, Ferrari S, et al. Immunological evidence for the presence of double-stranded RNA regions in intact nuclei of normal human lymphocytes. *Haematologica.* 1979 Dec;64(6):681-5.

Torelli G, Narni F, et al. Kinetics of hybridization to human DNA of heterogeneous nuclear RNA isolated from normal human lymphoblasts and acute leukemia blast cells. *Mol Biol Rep.* 1979 Aug 31;5(3):181-4.

Torelli G, Cadossi R, et al. Reassociation kinetics of the DNA of human acute leukemia cells. *Biochim Biophys Acta.* 1979 Feb 27;561(2):301-11.

Torelli U, Torelli G, et al. The primary product of DNA transcription in the blast cell of acute leukemia. Its characterization as an approach to the understanding of the origin of the blast crisis of chronic myeloid leukemia. *Boll Ist Sieroter Milan.* 1978 Jul 31;57(3):325-33.

Torelli UL, Ferrari S, et al. In vitro cleavage of 45S pre-ribosomal RNA and of giant heterogeneous RNA extracted from human leukemic cells. *Mol Biol Rep.* 1977 Dec;3(6):403-11.

Torelli U, Ferrari S, et al. Immunological assay of double-helical segments in RNA fractions of different molecular size extracted from acute myeloid leukemia blast cells. *Cancer Res.* 1977 Aug;37(8 Pt 1):2667-72.

Torelli U, Torelli G, et al. Accumulation of giant heterogeneous RNA molecules in acute myeloid leukemia blast cells. *Cancer Res.* 1976 Dec;36(12):4631-8.

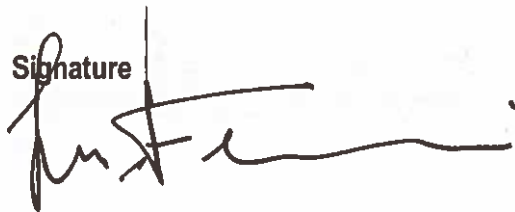
Torelli U, Ferrari S, et al. Double stranded ribonuclease activity in human lymphocyte nuclei. *Experientia.* 1976 Mar 15;32(3):285-7.

Torelli U, Cadossi R, et al. Inhibition of protein synthesis in reticulocyte lysates by double-stranded ribonucleic acid extracted from nuclei of leukemic cells. *FEBS Lett.* 1975 Aug 1;56(1):96-100.

Modena, January 2013.

Autorizzo il trattamento dei miei dati personali ai sensi del Decreto Legislativo 30 giugno 2003, n. 196 "Codice in materia di protezione dei dati personali (facoltativo)".

Signature

A handwritten signature in black ink, appearing to be 'Sergio Ferrari', written over a vertical line that separates the label 'Signature' from the signature itself.