

## Rossella Manfredini, PhD

### Personal data

Name: Rossella Manfredini  
Date and place of birth: 02/11/1962, Modena, Italy  
Citizenship: Italian  
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**Education:** 1988. Biological Sciences Degree, University of Modena, Italy. 1994: PhD in Experimental Hematology, University of Modena, School of Medicine, Modena, Italy ;1996: Postgraduate School of Biochemistry and Clinical Chemistry, University of Modena, School of Medicine, Modena, Italy

**Fellowships:** 1989: AIRC (Italian Association for Cancer Research); 1994 & 1995: Italian League against cancer

**Post doctoral training:** 6/1989-12/1989: Laboratory of Prof. Renato Baserga, Temple University, Philadelphia, USA.

**Honors and Awards:**1988-1989: "MEDICINA" "1988" and "1989" Award of The Italian Medical Encyclopedia. 1992: Lega Milanese Lotta contro i Tumori" Award. 1994: Società Italiana di Cinetica Cellulare Applicata e di Base (SICCAB) Award.

**Patents:** 1998: International USA Patent N. 08/859.389 "Use of c-Fes specific antisense oligonucleotides and ATRA in M3 type leukemias".

**Academic Career:** 1996-2002: Researcher in Applied Biology, University of Modena. 2002-February 28<sup>th</sup> 2013: Associate Professor in Applied Biology, University of Modena & Reggio Emilia. March 1<sup>st</sup> 2013-today: Full Professor in Applied Biology, University of Modena & Reggio Emilia.

Member of the Board of Doctorate School in Molecular and Regenerative Medicine.

**Research Activity:** 1988-2010. Hematopoietic Stem Cells Laboratory, Biochemistry Section, Department of Biological Sciences, University of Modena & Reggio Emilia, Modena, Italy. 2011-today: Center for Regenerative Medicine, Dpt. Of Life Sciences, University of Modena & Reggio Emilia, Modena, Italy.

Author of 82 full peer-reviewed papers and more than 200 communications.

Principal Investigator of Research Projects supported by Associazione Italiana per la Ricerca sul Cancro & Ministero dell'Istruzione, dell'Università e della Ricerca.

### Research Topics:

1. Gene expression regulation in normal and leukemic differentiation.
2. Gene expression profiling by DNA microarrays of hematopoietic stem cells, myeloid precursors and differentiated cells.
3. Gene expression profiling by DNA microarrays of Leukemic Stem Cells (LSC) of myeloproliferative diseases (Chronic Myeloid Leukemia, Idiopathic Myelofibrosis and Essential Thrombocytemia).
4. Regulatory mRNA/microRNA networks in Leukemic Stem Cells (LSC) of myeloproliferative disorders.
5. Identification of novel mutations in Myeloid Neoplasms by Next Generation Sequencing