

## MONICA MONTANARI, PhD

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### **Education:**

**1997: Pharmaceutical Chemistry Degree**, University of Modena and Reggio Emilia, 110/110 cum Laude

**2002: PhD** in Cellular and Molecular Biology and Pathology, University of Modena, School of Medicine, Italy.

### **Fellowships:**

- 01/1999-12/2001: Italian Ministry of University and Research fellowship.
- 01/2002-12/2002: University of Modena and Reggio Emilia Research fellowship

### **Current Position:**

**2003-today**, Technician at Department of Biomedical Sciences, Cell-Lab "Paolo Buffa", University of Modena and Reggio Emilia.

### **Research Topics:**

- Evaluation of  $1\alpha$ , 25 dihydroxyvitamin D3 induced differentiation of CD34+ hematopoietic progenitors.
- Biological evaluation of Vitamin D3 and Retinoic Acid differentiation on hematopoietic progenitors.
- Gene expression profiling of CD34+ derived CD14- and CD14+ from umbilical cord blood.

### **Selected Publications**

1. Manfredini R., Trevisan F., Grande A., Tagliafico E., **Montanari M.**, Lemoli R., Visani G., Tura S., Ferrari St., Ferrari S. Induction of a functional Vitamin D receptor in all-trans Retinoic Acid-induced monocytic differentiation of M2-type leukemic blast cells. *Cancer Research* 59, 3803-3811, August 1999.
2. Grande A., **Montanari M.**, Tagliafico E., Manfredini R., Zanocco-Marani T., Siena M., Tenedini E., Gallinelli A. e Ferrari Se. Physiological levels of  $1\alpha$ , 25 dihydroxyvitamin D3 induce the monocytic commitment of CD34+ hematopoietic progenitors. *Journal of Leukocyte Biology*, 71:641-651, Apr. 2002.
3. Tagliafico E., Siena M., Zanocco-Marani T., Manfredini R., Tenedini E., **Montanari M.**, Grande A. e Ferrari Se. Requirement of the coiled-coil domains of p92c-fes for nuclear translocation in myeloid cells upon induction of differentiation. *Oncogene*, 20;22(11): 1712-23, Mar 2003.
4. Urbinati F., Loti F., Facchini G., **Montanari M.**, Ferrari G., Mavilio F. and Grande A. Competitive Engraftment of hematopoietic stem cells genetically modified with a truncated erythropoietin receptor. *Human Gene Therapy* (May 2005) 16:594-608
5. **Montanari M.**, Gemelli C., Tenedini E., Zanocco-Marani T., Vignudelli T., Siena M., Zini R., Salati S., Chiossi G., Tagliafico E., Manfredini R., Grande A., Ferrari Se. Correlation between differentiation plasticity and mRNA expression profiling of CD34+ derived CD14- and CD14+ human normal myeloid precursors. *Cell Death and Differentiation*, 2005, Jun 10.
6. Gemelli C., **Montanari M.**, Tenedini E., Zanocco Marani T., Vignudelli T., Siena M., Zini R., Salati S., Manfredini R., Grande A and Ferrari Se. Retrovirally mediated MafB expression induces the monocyte differentiation of monoblastic cell lines and CD34+ hematopoietic progenitors. *Cell Death and Differentiation*, 2006, Oct. 13 (10).
7. Ruozi B., **Montanari M.**, Vighi E., Tosi G., Tombesi A., Battini R, Restani C., Leo E., Forni F. and Vandelli MA. Flow cytometry and live confocal analysis for the evaluation of the uptake and intracellular distribution of FITC-ODN into HaCaT cells. *J Liposome Res.* 2009 19 (3) 241-51.
8. Marverti G., Ligabue A., **Montanari M.**, Guerrieri D., Cusumano M., Di Pietro M.L., Troiano L., Monti M. G., Moruzzi M. S. and Frassinetti C. Characterization of the cell growth inhibitory effects of a novel DNA-intercalating bipiridyl-thiourea-Pt(II) complex in cisplatin-sensitive and -resistant human ovarian cancer cells. *Investigational New Drugs* 2009, Oct. 16.
9. Parenti S., Ferrarini F., Zini R., **Montanari M.**, Canovi B., Losi L., Ferrari S. and Grande A. Mesalazine inhibits the beta-catenin signalling pathway acting through the up-regulation of mu-protocadherin gene in colo-rectal cancer cells. *Aliment Pharmacol Ther.* 2010 Jan; 31(1):108-19.