



## **MARIA GRAZIA CATTANEO**

1987 Degree in Biological Sciences with honors, University of Milano  
1992 Ph. D. degree in Experimental Pharmacology, University of Brescia

1988-92 Graduate student, Dept of Pharmacology, University of Milano  
1993-95 Recipient of an A.I.R.C. fellowship  
1996-2002 Technician, Dept of Pharmacology, University of Milano  
2003- Assistant Professor, Dept of Pharmacology - now Dept of Medical Biotechnology and Translational Medicine - University of Milano

Member of the Italian Society of Pharmacology and of the Italian Society of Cell Biology

### **Current research interests:**

- Molecular biology of metastasis
- Angiogenesis
- Gender pharmacology

### **Publications:**

n. 43 articles (mean I.F. 3.6), H index 21  
n. 5 book chapters

### **Selected publications:**

Cattaneo MG, Vanetti C, Samarani M, Aureli M, Bassi R, Sonnino S, Giussani P. (2018) Cross-talk between sphingosine-1-phosphate and EGFR signaling pathways enhances human glioblastoma cell invasiveness. *FEBS Lett.* Feb 10. doi: 10.1002/1873-3468.13000

Vanetti C, Bifari F, Vicentini LM, Cattaneo MG. (2017) Fatty acids rather than hormones restore in vitro angiogenesis in human male and female endothelial cells cultured in charcoal-stripped serum. *PLoS One.* 12, e0189528

Cattaneo MG, Vanetti C, Decimo I, Di Chio M, Martano G, Garrone G, Bifari F, Vicentini LM. (2017) Sex-specific eNOS activity and function in human endothelial cells. *Sci Rep.* 7, 9612 doi: 10.1038/s41598-017-10139-x

Addis R, Campesi I, Fois M, Capobianco G, Dessole S, Fenu G, Montella A, Cattaneo MG, Vicentini LM, Franconi F. (2014) Human umbilical endothelial cells (HUVECs) have a sex: characterisation of the phenotype of male and female cells. *Biol Sex Differ.* 5:18. doi: 10.1186/s13293-014-0018-2

Cattaneo MG, Cappellini E, Ragni M, Tacchini L, Scaccabarozzi D, Nisoli E, Vicentini LM. (2013) Chronic nitric oxide deprivation induces an adaptive antioxidant status in human endothelial cells. *Cell Signal.* 25:2290-7

Cattaneo MG, Cappellini E, Vicentini LM. (2012) Silencing of Eps8 blocks migration and invasion in human glioblastoma cell lines. *Exp Cell Res.* 318:1901-1912

Cattaneo MG, Cappellini E, Benfante R, Ragni M, Omodeo-Salè F, Nisoli E, Borgese N, Vicentini LM. (2011) Chronic deficiency of nitric oxide affects Hypoxia-Inducible Factor 1- $\alpha$  (HIF-1 $\alpha$ ) stability and migration in human endothelial cells. PLoS One 6, e 29680

Cattaneo MG, Chini B, Vicentini LM. (2008) Oxytocin stimulates migration and invasion in human endothelial cells. Br J Pharmacol 153, 728-736

Pola S\*, Cattaneo MG\*, Vicentini LM. (2003) Antimigratory and anti-invasive effect of somatostatin in human neuroblastoma cells: involvement of Rac and MAP kinase activity. J Biol Chem 278, 40601-40606

Cattaneo MG, D'Atri F, Vicentini LM. (1997) Mechanisms of mitogen-activated protein kinase activation by nicotine in small-cell lung carcinoma. Biochem J 398, 499-503

Cattaneo MG, Codignola A, Vicentini LM, Clementi F, Sher E. (1993) Nicotine stimulates a serotonergic autocrine loop in human small cell lung carcinoma. Cancer Res 53, 5566-5568

### **Teaching activities:**

2002-2017 Pharmacology and toxicology, 3-year-degree course for technician specialized in safety and health prevention at work, School of Medicine, University of Milano

2012- Pharmacology, 3-year-degree course in Nursing, School of Medicine, University of Milano

2012- Medical Pharmacology, School of Medicine, University of Milano

- Tutor for graduate students in "Biologia applicata alla Ricerca biomedica" and "Biotecnologie mediche e Medicina molecolare"

- Tutor for Ph. D. students in Pharmacological Sciences