**Maria Felice Brizzi**

Date of Birth 12/3/1962,

29/3/1988 Doctoral Degree: BACHELOR OF MEDICINE;

1990-1992: Fellowship Associazione Ricerca sul Cancro (AIRC);

1993-1996: PhD in Cytomorphology at the University of Bologna;

1997-1999: Post-doctorate fellowship from University of Torino;

1999: Position as University Researcher in Internal Medicine at the University of Torino;

2006: Associate Professor in Internal Medicine at the University of Torino.

**From 1999** she also works as MD in the Clinic of Internal Medicine.

Prof Brizzi begun her scientific activity in 1987 working on her Bachelor thesis on the effects of

hemopoietic growth factors on acute leukemia blasts. Soon after her Degree in Medicine she

become involved in a project on the expression and modulation of hemopoietic growth factor

receptors on normal and leukemic cells. In 1993 and 1998 she worked in the laboratory of Dr.

Yosef Yarden in the Department of Biochemistry of Weizman Institute in Rehovoth in a frame of

a joint project on the intracellular signaling of c-Kit.

In June 1995 and in June 1996 Dr Brizzi participated as “selected speaker” to the 11 Th

and 12th Oncogene meeting respectively (Frederick, Maryland, USA)

The main fields of scientific activity can be listed as follows:

Signal transduction mechanisms involved in normal and neoplastic proliferation.

Biochemical analysis of Interleukin-3- and thrombopoietin-mediated vascular growth and

functional activation of polymorphonuclear cells and platelets;

Regulation of cell-cycle progression by integrin-extracellular matrix interaction in vascular cells;

Analysis of endothelial cell-smooth muscle cells interaction in tumor angiogenesis.

Analysis of the molecular mechanisms involved in the development and progression of the

atherosclerotic process associated or not with diabetes;

More recently Prof. Brizzi dedicated her scientific activity almost exclusively to the study of the

molecular mechanisms regulating inflammatory and neoplastic angiogenesis both in

vitro and in vivo by using SCID and transgenic mouse models.

More in details, Prof. Brizzi dedicated her scientific activity to identify target molecules able to

interfere with matrix receptor/cytokines interaction and growth factor receptors to impair tumor

angiogenesis.

**Grants**

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Association of Italian Cancer Research

(AIRC) 2001-2003; 2005, 2006; 2007,2008, 2009, 2010.

•MIUR: 1999, 2000, 2001, 2002, 2003, 2004,2005, 2006, 2007, 2008, 2012

Prin 2006, 2008

Regione Piemonte Ricerca Sanitaria Finalizzata

2004, 2006,2007, 2008, 2009

**Peer Reviewer for:**

Arteriosclerosisis Thrombosis and Vascular Biology

Kidney International

Oncogene

Blood

Diabetes Care

Atherosclerosis

Journal of Biological Chemistry

## **Publication 2007-2013**

## *C-KIT*, by interacting with the membrane-bound ligand, recruits endothelial progenitor cells to inflamed endothelium. P**. Dentelli, A. Rosso, A. Balsamo, S. Colmenares Benedetto, A. Zeoli, M. Pegoraro, G. Camussi, L. Pegoraro, M.F. Brizzi. Blood 2007 119: 4264-4271.**

## . VEGFR-1 (FLT), 1 INTEGRIN AND Herg K+ CHANEL FORM A MACROMOLECULAR SIGNALING COMPLEX IN ACUTE MYELOID LEUKEMIA: ROLE IN CELL MIGRATION AND CLINICAL OUTCOME. S. Pillozzi, **M.F. Brizzi**, P.A. Barnabei, B. Bertolozzi, R. Caporale, V. Basile, V. Boddi, L. Pegoraro, A. Becchetti. A. Arcangeli. **Blood** 2007, 110:1238-1250.

## . OXIDATIVE STRESS-MEDIATED MESANGIAL CELL PROLIFERATION REQUIRES RAC-1/ROS PRODUCTION AND 4 INTEGRIN EXPRESSION. P. Dentelli, A. Rosso, A. Zeoli, R. Gambino, L. Pegoraro, G. Pagano, R. Falcioni, **M.F. Brizzi. J Biol. Chem.** 2007, 282:26101-26110.

## PRIMARY ALDOSTERONISM AND ENDOTHELIAL PROGENITOR CELL BIOAVAILABILITY. Verhovez A, Zeoli A, Williams TA, Morello F, **Brizzi MF**, Veglio F, Mulatero P. **Clin Endocrinol (Oxf).** 2008,69:528-534.

## INTERLEUKIN-3 PROMOTES EXPANSION OF HEMOPOIETIC-DERIVED CD45+ ANGIOGENIC CELLS AND THEIR ARTERIAL COMMITMENT VIA STAT5 ACTIVATION. Zeoli A, Dentelli P, Rosso A, Togliatto G, Trombetta A, Damiano L, di Celle PF, Pegoraro L, Altruda F, **Brizzi MF.** **Blood**. 2008, 112:350-361.

## Formation of STAT5/PPARgamma transcriptional complex modulates angiogenic cell bioavailability in diabetes.[Dentelli P](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Dentelli%20P%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus), [Trombetta A](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Trombetta%20A%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus), [Togliatto G](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Togliatto%20G%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus), [Zeoli A](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Zeoli%20A%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus), [Rosso A](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Rosso%20A%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus), [Uberti B](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Uberti%20B%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus), [Orso F](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Orso%20F%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus), [Taverna D](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Taverna%20D%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus), [Pegoraro L](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Pegoraro%20L%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus), [**Brizzi MF**](http://www.ncbi.nlm.nih.gov/sites/entrez?Db=pubmed&Cmd=Search&Term=%22Brizzi%20MF%22%5BAuthor%5D&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DiscoveryPanel.Pubmed_RVAbstractPlus). **Arterioscler Thromb Vasc Biol.** 2009 29:114-20.

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**#: TO2008 A 000189** depositato il 13/3/2008 “PROCEDIMENTO PER LA DIFFERENZIAZIONE E L’ESPANSIONE DI CELLULE ENDOTELIALI ARTERIOSE RELATIVI USI E PRODOTTI”

**#** **:PCT/EP2009/057263** depositato 12/06/2009 “UNACYLATED GHRELIN AND ANALOGS AS THERAPEUTIC AGENTS FOR VASCULAR REMODELING IN DIABETIC PATIENTS AND TREATMENT OF CARDIOVASCULAR DISEASE”