

# Giorgio Ghigliotti

Researcher

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## *Education and training*

2003

### **Specialty in Clinical Pathology 4 year fellowship**

Genova University School of Medicine IT - Genova - IT

1990

### **Specialty in Cardiology 4 year clinical fellowship**

Genova University School of Medicine IT - Genova - IT

1985

### **Doctor of Medicine 6 year Course**

Genova University School of Medicine IT - Genova - IT

## *Academic experience*

2001 - ONGOING

### **Research Associate in Cardiology Medicine**

Genova University School of Medicine IT - Genova - IT

2003 - ONGOING

### **Member Movement Sport and Health Sciences Graduate Program**

Genova University - Genova - IT

2003 - 2016

### **Member Dental Medicine Graduate Program**

Genova University - Genova - IT

2000 - ONGOING

### **Member Cardio pathophysiology and perfusion Program**

Genova University - Genova - IT

1998 - ONGOING

### **Member Medicine Graduate and Postgraduate Program**

Genova University School of Medicine IT - Genova - IT

1997 - 1998

### **Research Associate Pulm. and Intensive Care Pulmonary**

## **Division**

Washington University School of Medicine US - St. Louis - US

1994 - 1997

## **Postdoctoral Research Fellow Cardiovascular Division**

Washington University School of Medicine US - St Louis - US

## ***Language skills***

### **English**

Proficient

TOEFL

### **French**

Basic

## ***Teaching activity***

TRAINING OF FELLOWS AND STUDENTS

Pregraduate Trainees (Medical School and other Programs)

(\* indicates Member of the Thesis Committee)

### **MEDICAL STUDENTS**

Emmanuela Devoto

Laura Casalino

Annamaria Nicolino

Luca Bacino

Alessandra Siboldi

Francesco Mainardi

Alessandra Ottonello

Michele Brunelli

Annalisa Porcile

Paolo Marcaccini

Marco Canepa

Maria Carla Casale

Valentina Boasi

Chiara Gazzari

Enrico Gamba

Diego Alberti

Sara Debilio\*

Michele Brunacci

Camilla Zawaideh

Matteo Sarocchi

Silvia Siri

Paola Ghione

Francesco Davi

Matteo Bauckneht \*

Pauna Cvetanoska\*

Sara Oneto\*

Lorenzo Grazioli Gauthier\*

Alessandra Lorenzoni\*

Riccardo Baldassini\*

Andrea C. Merlo\*

Edoardo Molinari\*

Elisa Calzolari\*

Giulia Urbani\*

**Graduate student (Movement, Sport and Health Sciences Graduate Program)**

Francesca Gori\*

**Graduate student (Biology Program)**

Luisa Polito\*

Stefano Brunetta\*

## *Postgraduate research and teaching activity*

**Supervision of PhD students, residents and post-doctoral fellows**

**Graduate Trainees (PhD Program of Cardiovascular Biology) (\* indicates Member of the Thesis Committee)**

**3-year PhD Program of Cardiovascular Biology**

Luca Olivotti, MD \*

Pierfranco Rossettin, MD

Gian Marco Rosa, MD

Domenico Ermirio, MD

Guido Parodi, PhD \*

Paola Altieri, PhD \*

Patrizia Fabbi, PhD \*

Sabina Nasti, PhD \*

Silvia Langheim, PhD \*

Valeria Manca, PhD \*

Irene Tracchi, PhD \*

Chiara Barisione, PhD \*

Marzia Mura, PhD \*

Concetta Aloï, PhD \*

Alessia Parodi, PhD \*

## *Research interests*

ONGOING RESEARCH INTERESTS

**Genova, IT Oct 1998 – present**

1. cardio-renal interactions: role of monocyte subsets (CD14CD16), role of circulating toxins (Advanced Oxidation Protein Products-AOPP, Indoxyl-3-sulphate-IS) and of tissue proteins (Myostatin) to promote progression of atherosclerotic lesions;

2. identification of target receptors (Aryl hydrocarbon Receptor-AhR) of ligands related to cardio-renal damage in vascular cells;

2. development of experimental animal models (Sprague-Dawley rats, New Zealand White rabbits) to define the response of the vessel wall to an arterial injury in normal vessels, in vessels after induction of abdominal aneurysm with elastase, in vessels with intimal thickening after balloon-induced injury;

3. to define determinants and mediators of pro-thrombotic, pro-oxidant and pro-inflammatory response in patients with early and advanced heart failure, in patients with ischemic heart disease, in patients with atherosclerotic disease of the aorta, as a tool to define clinical phenotypes that may explain different prognostic profiles and that may drive therapeutic choices.

4. cardio-liver interactions: determinants and mediators of prothrombotic response in patients with advanced liver disease, determinants and mediators of structural cardiac damage in patients with advanced liver disease

#### PAST RESEARCH INTERESTS

**July 1997- September 1998 (Mentor Professor Michael F. Iademarco, Pulmonary and Intensive Care, Pulmonary Division, Washington University School of Medicine, St. Louis, MO, US)**

Study of extra-coagulative activity of Thrombin on Cells of the arterial vessel wall (HUVECs and vascular smooth muscle cells) to regulate Vascular cell adhesion molecule-1 (VCAM-1) expression

**September 1994-June 1997 (Mentor Professor Paul R. Eisenberg, Cardiovascular Division, Washington University School of Medicine, St. Louis, MO, US)**

Platelet-bound Xa/Va activity as a key component for immediate prothrombotic response after arterial injury and for prolonged procoagulant activity

**July 1984-August 1994 (Mentor Pr. Claudio Brunelli, Ospedale Policlinico S. Martino, UU.OO.CC. Cardiologia e Clinica Malattie Cardiovascolari, Genova University School of Medicine)**

Development of new pharmacological strategies for Patients with Acute Coronary Syndromes at high-risk (systemic iv thrombolysis in Patients with Refractory Angina); Response to Ergonovine as a Tool to assess presence of abnormal coronary vasomotion in Patients with Mixed Angina and poorly reproducible stress test

## *Grants*

2011 - 2013

### **Progetti Ricerca di Ateneo 2011**

Ateneo di Genova - IT

Principal investigator

Meccanismi di Reclutamento Macrofagico Tissutale e Apoptosi di Cellule Muscolari Lisce nella parete vasale di pazienti con Vasculopatia Arteriosa

2007 - 2009

### **Rapporti tra Sindromi Coronariche Acute Infiammazione Aterosclerosi ed Autoimmunità.**

Progetti Ricerca di Ateneo - IT

Participant

Rapporti tra Sindromi Coronariche Acute, Infiammazione, Aterosclerosi ed Autoimmunità.

2002 - 2004

### **Meccanismi Patogenetici e Protezione Cellulare del Danno Cardiaco da Chemioterapia Antraciclinica**

Progetti Ricerca di Ateneo - IT

Cofinanziamento MURST 2000 (Prot. MM06098221-005 ) - Participant  
Progetti Ricerca di Ateneo 2002 Meccanismi Patogenetici e Protezione Cellulare del Danno Cardiaco da Chemioterapia Antraciclinica

2000 - 2002

### **Interrelazione tra citochine apoptosi e ipertrofia nel rimodellamento ventricolare e vascolare aspetti sperimentali e clinici**

Progetti Ricerca di Ateneo - IT

Participant

Interrelazione tra citochine, apoptosi e ipertrofia nel rimodellamento ventricolare e vascolare: aspetti sperimentali e clinici.

Progetto di Ricerca di Ateneo 1999 'Anno 2000'-Stress Ossidativo e Regolazione della Attivazione Vascolare

1997 - 1999

### **Modalità dell'attivazione coagulativa e piastrinica in corso di lesione della parete vasale di un vaso arterioso**

Cofinanziamento MURST 1997 - IT

Cofinanziamento MURST 1997 (Prot. 9706570507003) - Participant  
Modalità dell'attivazione coagulativa e piastrinica in corso di lesione della parete vasale di un vaso arterioso

## ***Editorial activity***

### **EDITORIAL RESPONSABILITIES**

#### **Editorial Boards**

Il Cuore (Kurtis), Disease Markers

#### **Manuscript Reviewer**

Heart, Journal of Thrombosis and Haemostasis, Thrombosis and haemostasis, Journal of Cardiovascular Medicine, PLOS One, Journal of Preventive Medicine and Hygiene, Arteriosclerosis, Thrombosis, and Vascular Biology, Journal of Vascular Research, European Journal of Clinical Investigation, International Journal of Cardiology, American Heart Journal, Pharmacological Research, Chinese Journal of Physiology, Current Vascular Pharmacology, Journal of Cardiovascular Medicine, Nature Reports

## ***Assignments abroad***

### **Washington University School of Medicine, US**

#### **Research Fellowship**

1997-1998 Research Associate, Pulm. and Intensive Care, Pulmonary Division

Postdoctoral Research Fellow, Cardiovascular Division

1994-1997 Postdoctoral Research Fellow, Cardiovascular Division