

# Ilaria Armentano

## *Curriculum Vitae*

### Personal Data

Name: Armentano Ilaria  
Grade: Ph.D  
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E-mail: Ilaria.armentano@unipg.it  
Nationality: Italian, two children  
Date of birth: 28/12/1974  
Professional Status: Post-doc, University of Perugia

### Work experience

- Dates (from – to) **01/12/2009– present**
- Name and address of employer University of Perugia, Str. Di Pentima, 4 Terni
- Type of business or sector University
- Occupation Researcher
- Main activities and responsibilities Nanocomposite based on graphene
  
- Dates (from – to) **17/11/2008– 17/11/2009**
- Name and address of employer Italian Interuniversity Consortium on Materials Science and Technology (INSTM), Via G. Giusti n°9, 50121 Firenze - ITALY
- Type of business or sector Research Centre
- Occupation Researcher
- Main activities and responsibilities Nanocomposite development and characterization
  
- Dates (from – to) **01/03/2007-25/10/2008**
- Name and address of employer Italian Interuniversity Consortium on Materials Science and Technology (INSTM), Via G. Giusti n°9, 50121 Firenze - ITALY , in the NIPLAB reference centre: Nanocomposite and multifunctional hybrid polymer Laboratory.
- Type of business or sector Research Centre
- Occupation Researcher
- Main activities and responsibilities Development and characterization of nanostructured hybrid system based on polymer matrix.

### Education and training

- **01/03/2002 – 28/02/2007**: Post-doc on: “Development of semiconductor composite based on organic-inorganic nanostructures for photovoltaic applications”, University of Perugia, Materials Engineering Department. Main topics in: nanotube characterization, nanotube applications: gas sensor and photovoltaic, blends conductive polymer – nanotube.

- **01/11/2003 - 31/10/2006:** - Ph.D. student in Industrial Engineering at the Department of Engineering, Section of Material Science and technology. Thesis title: Carbon nanotubes: synthesis and functionalization techniques”, director Prof. Josè Maria Kenny.

- **19/07/2001** - Degree in Physics (107/110) Thesis title: “Laser Amplification in Ionization Chamber”. Director: Prof. R. Battistion, Co-Director: Prof. F. S. Pavone, University of Perugia; main subject: infrared detector, tunable laser, gas transitions, vacuum systems.

- **01/10/2000 – 30/09/2001:** Scholarship INFN for undergraduate student, at Legnaro National Laboratory INFN (Padova) Italy, research programme development about VISIR experiment.

- **2002 – 2009:** Partecipation to 7 national and international school on Nanomaterials and on Biomedical Applications

### **Technical skills and competences**

- Carbon nanostructure synthesis and functionalization techniques.
- Nanocomposites developing and characterization.
- Carbon thin film growth and characterization
- Polymeric surface modification and characterization
- Tissue engineering

### **Personal skills and competences**

- *Reviewer activity for international journals:* Acta Biomaterialia, Journal of Applied Polymer Science, Material Science & engineering C, Material for Biomedical Applications.
- *Editorial board* of ISRN Spectroscopy
- *Member* of the Ph.D course in Biology and Molecular Biology at the University of Perugia (2006-2013)
- *Member* of the Italian Consortium of Material Science and Technology (INSTM)
- *Member* of the Organization of BIOPOL CONGRESS 2013
- *Evaluator* in the FONDECYT\_REG project in the biomaterial field.
- National teaching qualification for Associate Professorship, Disciplinary Sector ING-IND/22- *Science And Technology Of Materials (01/2014).*

### **Teaching activities**

- Professor at the Biotechnologies course at University of Perugia (2007), Engineering Material degree.
- Assistant in Material Science and Technology Course, (2002-2005), undergraduate course.
- Surface laboratory at European Master’s Course in Nanotechnology of Polymeric Materials (2006).
- Bionanomaterials module at European Master’s Course in Nanotechnology of Polymeric Materials (2007).
- Biotechnology course at University of Perugia (2007), Engineering Material degree.
- Polymer Chemistry and characterization module (2007) at Nanocomposite Course, Confindustria Terni.
- Professor at Biosensor Course of University of Perugia, on “Technological aplications of biosensors and micro and nanosystems.”

- **Participation to 30 national and international Conferences, with oral and poster presentations, following a brief note of the main important in the PI subject:**

E-MRS Spring Meeting, Nice, 9-13 May 2011, two oral presentations  
Nanoforum 2011, Rome 13-15 September, 2011, invited speaker  
ESB 9-13 September, 2007, Brighton

### **- Co-relator for 8 MSc degrees and 5 Ph.d thesis**

- Author of more than 80 articles on revised journals and book chapter, with H index=16
- Guest Editor of “Silver Nanoparticles: Synthesis, Uses and Health Concerns”, 2013, Nova Science Publishers, Inc. ISBN: 978-1-62808-402-3.

### **- Awards**

- 2005: V National Congress on Material Science and Technology (INSTM), INSTM AWARD as best Poster in the section 6 Materiali Polimerici: Surface plasma treatment of Single-walled carbon nanotubes for building block synthesis of dendritic porphyrin light harvesting systems.
- 2008 Prof. Luciano Belli AWARD for the project “Micropatterned hydrogenated amorphous carbon guides mesenchymal stem cells towards neuronal differentiation.

### **Collaborations**

-University of Rome “Tor Vergata”, Prof. A. Bianco, Prof. G. Gusmano.

-Tissue Engineering center, Pavia, Prof. L. Visai.

-Department of Chemistry, University of Perugia, Prof. L. Latterini, Prof. Elisei.

-Department of Chemistry, Biology and Biotechnologies, Biochemistry and Molecular Biology Unit University of Perugia, Dott. M. Sabata.

-Department of Medicine, University of Perugia, Prof. Riccardo Calafiore, Giuseppe Basta, Ph.D Pia Montanucci.

-Istituto Ortopedico Rizzoli, Dott. Gabriela Ciapetti.

-Mexico, Universidad Nacional Autónoma de México, Prof. H. Arzate.

-Spain, University of Alicante, Prof. A. Jimenez-Migallon;

-Spain, CSIC, Madrid, Prof. M. Lopez Manchado, Prof. C. Mijangos, Nicoletta Rescignano.

-Sweden, KTH, Prof. Lars Berglund.

-Stem Cell Interdepartmental Institute, KU Leuven, 3000 Leuven, Belgium, Prof. Maurilio Sampaolesi.

-CSIC, Madrid, Prof. M. Lopez Manchado and Prof. C. Mijangos, Nicoletta Rescignano, Spain.

-Chemistry Department, University of Bologna, Prof. Alberto Credi.

-Faculty of Technology and Metallurgy, University of Belgrade Karnegijeva 411000 Belgrade Serbia, Prof. Dr Bojana Obradovic.

-Institute of Catalysis and Petrochemistry, CSIC, Marie Curie 2, Cantoblanco, 28049 Madrid, Spain, Prof. José Louis Garcia Fierro.

-Department of Mining-Metallurgy and Materials Science. School of Engineering, University of the Basque Country (UPV/EHU), Spain, Sarasua José Ramon.

-Departament de Química Analítica i Química Orgànica, Universitat Rovira i Virgili, Prof. Marina Calia.

-Dipartimento di Chimica - Università degli Studi di Firenze, Laboratorio di Magnetismo molecolare (LAMM), Matteo Mannini, Elvira Fantechi.

-Università di Napoli, Federico II, Prof. Paolo Antonio Netti.

**Mother Tongue:** Italian

Other Languages: English, France

### **Projects**

The PI was involved in the followed national and international research project:

- PRIN-Miur 2003: “New hybrid functional materials based on carbon nanotubes and polymer for photovoltaic applications”.

- PRISMA - INSTM: “Carbon nanotube functionalization, processing and characterization of polymeric nanocomposites”
- NANOFUN-POLY: Nanostructured and Functional Polymer-Based Materials and Nanocomposites FP6 Network of Excellence (research).
- NANOFIRE (2004-2007), FP6: Environmentally friendly multifunctional fire retardant polymer hybrids and nanocomposite STREP Contract no.: 505637-1 (research).
- NANOBIOCOM (2005-2008), FP6: Intelligent Nanocomposite for Bone tissue Repair and Regeneration; STREP Contract no: 516943 (research), responsible of the technical research part, she participated to the periodic meetings in different European country, during the project activities
- National project FIRB-MIUR N° RBIP06FH7J\_002 "T.A.U.T.", "Artificial transplantable human tissues".
- National project PRIN (2010-2012) N° 20084XRSBS\_001, on stem cell-biomaterial interaction for neural regeneration.
- POCO THEME NMP-2007-2.1-1 Nanostructured polymer-matrix composites Large scale collaborative project. FP7.
- VAMAS project, for INSTM in the TWA33 on polymer nanocomposites (PNC).
- SAMSUNG, GRO Programme: “Multifunctional composites based on biopolymers and biobased additives for food packaging applications”, 2012.

19/03/2014

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