

## CV of Dr. Katia Martina

### Degrees:

Master Degree in Pharmaceutical Chemistry And Technology , at Turin University November 1998 with 110/110  
PhD in Chemistry in 2009.



### Experiences:

1998 –2004: Research Scientist in the Chemistry Department Research Center Pharmacia (Pharmacia & Upjohn fino al 1 Gennaio 2001) viale Pasteur 10, Nerviano (MI).  
1999: Invited Researcher Scientist in the Chemistry Department Research Center Pharmacia Kalamazoo (Michigan, USA).  
2004 –2005 Research Scientist in the Chemistry Department Research Center Nerviano Medical Sciences, viale Pasteur 10, Nerviano (MI).  
2005 –2008: Ph. D. In Chemistry Department of Drug Science and Technology and Chemistry Department, University of Torino  
2009 –2011 Post Doctorate fellow “Synthesis of cyclodextrin chemical platform as drug and contrast agent carrier” Department of Drug Science and Technologies, Università di Torino.

### Positions:

Associate Professor in Organic Chemistry at the Department of Drug science and Technology, Torino University. 2011-2020: Assistant Professor in Organic chemistry (Department of Drug Science and Technologies, Università di Torino)

### Teaching:

Organic Chemistry- Degree in Chemistry and Pharmaceutical Technology (since 2012);  
Drug Synthesis - Degree in Chemistry and Pharmaceutical Technology (since 2016).  
Applied Organic Chemistry: A Practical Approach To The Molecules Functionalization Degree in Pharmacy (since 2019)  
Laboratory course in advanced organic chemistry and process intensification Degree in Pharmacy (since 2019)

### Research area:

The research activity is set in the field of sustainable organic synthesis, innovative synthetic procedures carried out under nonconventional techniques (power ultrasound, microwaves, mechanochemistry and flow) and preparation and optimization of new catalyst both homogeneous or supported. Part of the activity is also focused on the synthesis and characterization of regioselective mono or polysubstituted cyclodextrin derivatives explored in many fields (pharmaceutical, agrochemical, organocatalysis). Dr Martina is specialized in synthesis and characterization of organic molecules by GC, GC-MS, HPLC, HPLC-MS, NMR, IR, UV. She has experience in the functionalization of surfaces both Silica and Carbon based nanomaterials and in non conventional preparation of nanoparticles with catalytic or biomedical applications.

### Supervision of students and PhD students/post docs.

She has been/is supervisor of Master students in Chemistry and Pharmaceutical Technology and 4 PhD students and 2 post-docs.

### Recent grants and projects

2019-2023 COST Action CA18112 Mechanochemistry for Sustainable Industry. Member  
2019-2021 KA1 Mobilità per l'apprendimento. Partnership countries Unito-South africa. Coordinator 2017-2021 H2020-MSCA-ITN-2016 “COSMIC European Training Network for Continuous Sonication and Microwave Reactors”. Participant

2019-2020 Fondazione CRT - "FarCoNano: Approcci farmacologici combinati e sistemi nanotecnologici quali promettenti strategie per il trattamento del melanoma metastatico. Participant

2015-2017 PRIN: Progetti di Ricerca di Rilevante Interesse Nazionale – Bando 2015 MOOD - Molecular basis and tools for the pharmacological inhibition of the YAP-TEAD axis through the prolyl-isomerase Pin1 in cancer. Participant

2013-2017 EU 7th Framework Program "Research for the Benefit of SMEs "TAKTIC". Participant

2012-2016 EU 7th Framework Program "Research for the Benefit of SMEs "MAPSYN". Participant

### **Editorial/referee activity**

Dr Martina is referee for International Journals in the fields of Chemistry, Green chemistry, Catalysis and Nanomaterial

### **Patents**

1. Zanichelli, Andrea; Tamburello, Davide; Jicsinszky, Laszlo; Rosetti, Luca; Cravotto, Giancarlo; Martina, Katia; Camporaso, Marina Nunzia "A process to remove bad smell and odours from plastic materials using cyclic oligomeric carbohydrates" PCT Int. Appl. (2018), 33pp WO 2018047205 A1
2. Martina Katia; Brill Wolfgang; "Aminoindazole derivatives as kinase inhibitors, process for their preparation under pharmaceutical composition comprising them. PCT Int. Appl. (2003), 99 pp. WO 2003/097610 A1, (2006) US 2006/0106083 A1, (2009) US 7632854 B2.
3. Amici Raffaella; D'Anello Matteo; Martina Katia; Salom Barbara; Vulpetti Anna; "Aminoindazole derivatives active as kinase inhibitors, process for their preparation and pharmaceutical compositions containing them" PCT Int. Appl. (2003), 132 pp. WO 2003/028720 A1, (2004) US2004/0254177 A1, (2008) EP 1820503 A3, (2009) US 7511136 B2.
4. Salom Barbara; D'Anello Matteo; Brasca Maria Gabriella; Giordano Patrizia; Martina Katia; Angelucci Francesco; Brookfield Frederick Arthur; Trigg William John; Boyd Edward Andrew; Larard Jonathan Anthony. "Pyrrolo[2,3-b]pyridine derivatives as kinase inhibitors and pharmaceutical composition comprising them", (2005)WO 2005/063747 A1 , (2005) US 2005/0256151, (2010) EP 1701956 B1, (2010) US 7728140 B2, (2010) US 2010/0210476.
5. Vanotti Ermes; D'Alessio Roberto; Tibolla Marcellino; Varasi Mario; Montagnoli Alessia; Santocanale Corrado; Martina Katia; Menichincheri Maria "Pyridylpyrrole derivatives active as kinase inhibitors" PCT Int. Appl (2004) EP 1660085 B1, (2005) 65pp. WO 2005/013986 A1, (2005) US 2005/0043346 A1.
6. Vanotti Ermes, Martina Katia; Menichincheri Maria; D'Alessio Roberto "Pyrrolo pyrrolones active as kinase inhibitors" PCT Int. Appl (2007) 52 pp. WO 2007/096334, (2007) EP 2007/051570.
7. Vanotti Ermes; Forte Barbara; Martina Katia; Menichincheri Maria; Ciria Alessandra; Orsini Paolo "heteroarylpyrrolopyridones active as kinase inhibitors." PCT Int. Appl. (2007) 60 pp, US2007/0142415 A1, (2007) WO 2007/071621 A1, (2009) US 7618982 B2.

**WOS (scopus) journal publications: 81; Citations: 1753 (1900); H. Index: 23 (24)**