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Giuseppe Paglia is an Associate Professor of Biochemistry (BIO-10) at the School of Medicine and Surgery of the University of Milano-Bicocca.

He graduated in Chemistry at the University of Bologna in 2006 and he obtained his Ph.D. in Biomedical Sciences and Technologies in 2009, at the Faculty of Medicine, University of Foggia. In the 2014, he completed the Specialization School in Clinical Biochemistry at the Faculty of Medicine of the University of Siena.

During his PhD studies, he worked in the laboratory of Clinical Biochemistry at the University of Foggia directed by Prof. Gaetano Corso developing several quantitative analytical methods (LC-MS/MS) for the analysis of metabolic profiles and drugs in biological fluids, and he applied these methods both for routine and research applications in the field of biochemistry. He also extensively worked in the development and implementation of ambient ionization mass spectrometry (MS) techniques, for the analysis of inborn errors of metabolism. In 2008 he spent a 6 months' period of training/research at the Aston Labs directed by Prof. R.G. Cooks, developing methods for lipidomics by combining high performance thin layer chromatography (HPTLC) and DESI-imaging-MS.

In 2010, he moved to the Center for Systems Biology directed by Prof. B.O. Palsson, where he started to study human metabolism using systems biology platforms by integrating omics data in genetic scale metabolic reconstructions. During this period, he focused on the study of the storage lesion of red blood cells and platelets occurring during the in vitro storage in transfusion medicine, in collaboration with the Blood Bank of Reykjavik and Copenhagen and the Systems Biology Research Group of San Diego. He also extensively worked on the implementation of new methods and technologies in metabolomics. For instance, he implemented ion mobility-MS workflows in lipidomics and metabolomics by using ion mobility derived collision cross sections as additional coordinates for the identification and characterization of lipids and small metabolites.

From 2014 to 2015, he worked as researcher at Istituto Zooprofilattico Sperimentale di Puglia e Basilicata, applying metabolomics and metallomics in the study of the human exposome.

From 2015 to 2018 he worked as senior researcher at the Institute for Biomedicine at EURAC Research directed by Prof. Peter Pramstaller, where he applied metabolomics and lipidomics in large scale studies, with major focus in neurodegenerative diseases and cardiovascular disease.

PERSONAL DATA

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PATENTS

- **Paglia G**, Palsson S. Bordbar A. Systems, methods, and biomarkers for determining the metabolic state of red blood cells and platelets (USA, PCT/US2015/031235, May 15, 2015). WIPO Patent Application WO/2015/179251. Titolo Conseguito il 15-05-2015
- Corso G, D'Apolito O, **Paglia G**. Dispositivo portacampione per camere di ionizzazione di spettrometri di massa. (n. 0001379141, 30/08/2010). Titolo Conseguito il 30-08-2010

SCIENTIFIC PRODUCTION

Total Pubblications (2007-2020)

- Pubblicazioni: 77
  - Research Article: 46
  - Reviews & Editorials: 9
  - Books: 1
  - Book Chapters: 8
  - Conference Proceedings: 13
- H-index: 24 (Scopus, 12.05.2020)
- Citazioni: 1907 (Scopus, 12.05.2020)

PUBBLICAZIONI

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[1]These authors contributed equally to this work

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2. **Paglia G**, Astarita G. Ion Mobility Techniques in Lipidomics. *In: Lipidomics: Current and Emerging Techniques* (New Developments in Mass Spectrometry). Editors: William J Griffiths and Yuqin Wang. Royal Society of Chemistry. ISBN 1788011600 *(2020).*
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5. **Paglia G***, Astarita G. Travelling wave ion mobility mass spectrometry: metabolomics applications. *In: Methods in Molecular Biology. High Throughput Metabolomics.* Angelo D'Alessandro (ed.). ISBN 978-1-4939-9236-2 (2019)
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