

PERSONAL INFORMATION

Giancarlo Aldini



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Date of birth 10/12/1967 | Nationality Italiana

SUMMARY

Giancarlo Aldini is full professor of Pharmaceutical Chemistry since 2015 at the Department of Pharmaceutical Sciences of the University of Milan (Italy). Since 2007 he has been in charge of the "Pharmaceutical Analysis" course and since 2012 of the "Analytical Methods in Drug Discovery and Development and Drug Quality Control" course for the Master's degree in Chemistry and Pharmaceutical Technology. Since 2019 he has also been responsible for teaching "Advanced Analysis of the Active Principles of Vegetable Drugs" for the three-year course in Herbal Techniques. In the past, he was responsible of the "Drug Analysis" course for the master's degree in Pharmacy and of the "Biopharmaceutical Analysis" course (2011-2016) for the Master's degree in Pharmaceutical Biotechnology. He is responsible for the research laboratories of Pharmaceutical Analysis and Bioanalysis at the Department of Pharmaceutical Analysis of the University of Milan dedicated to mass spectrometry, proteomics and data analysis. Prof. Aldini is a Top Italian Scientist (<http://www.topitalianscientists.org>) with an H-index of 49, 180 original publications and reviews, several book chapters and more than 7100 citations. GA has presented as invited speakers to more than 50 communications to the main national and international institutions and conferences. Inventor of eleven patents, he is currently director of the PhD in Pharmaceutical Sciences which includes about 20 students per year and a board of teachers of 50 faculty members. In recent years he has been the tutor for more than 50 master's students, 7 PhD students (PhD in Pharmaceutical Sciences at the University of Milan) and 5 post-doctoral fellows. He is currently supervisor of 2 Marie Curie PhD students and one post-doctorate.

RUOLI ATTUALI

- Full Professor of Medicinal Chemistry, Università degli Studi di Milano
- Director of the Ph.D School in Pharmaceutical Sciences, Università degli Studi di Milano
- Director of the Summer School in Pharmaceutical Analysis

ESPERIENZA PROFESSIONALE

2015- **Full Professor in Medicinal Chemistry**
 Università degli Studi di Milano

2013-2019 **Director of the Summer School in Pharmaceutical Analysis (SSPA)**
 SSPA is organized by the Division of Medicinal Chemistry, Società Chimica Italiana (SCI) and sponsored by the European Federation for Medicinal Chemistry (EFMC)

2005-2015 **Associate Professor in Medicinal Chemistry**
 Università degli Studi di Milano

1995-2005 **Assistant Professor in Medicinal Chemistry**
 Università degli Studi di Milano

1999 -2000 **Visiting scientist e professor**
 Tufts University/HNRC, Boston, USA

- Studio di processi radicalici e attività di molecole antiossidanti

Other activities

2012-2016 Elected member of the Board of Directors of the European Society of Free Radical Research
 2010-2013 Elected member and secretary of the intra-divisional Pharmaceutical Analysis Group of the Division of

2009-2016
2003-2005

Medicinal Chemistry
Secretary of the HNE-Club, Interest Group of the International Society for Free Radical Research.
Elected member of the Senate of the University of Milan

EDUCATION

1993-1996
1991

Ph,D in Medicinal Chemistry
Università degli Studi di Milano

Degree in Pharmacy
Università degli Studi di Milano

TEACHING ACTIVITIES

- Courses**
- 2019 - today: responsible for teaching Advanced Analysis of Active Principles of Vegetable Drugs for the three-year course of Herbal Techniques.
 - 2007 - today: Head of the "Pharmaceutical Analysis I" course for the single-cycle master's degree in Chemistry and Pharmaceutical Technology - University of Milan.
 - 2012 - today: Head of the course "Analytical Methods in Drug Discovery and Development and Drug Quality Control" for the Single Cycle Master's Degree in Pharmaceutical Chemistry and Technology - University of Milan.
 - 2011-2016: Head of the course: "Analysis of biotechnological drugs". Specialist degree course in Pharmaceutical Biotechnology - University of Milan.
 - 2000-2002: Head of the course "Toxicological Chemical Analysis" Bachelor's degree in Herbal Techniques - University of Milan.
 - 1999-2016: Head of the "Drug Analysis" course for the single-cycle master's degree in Pharmacy - University of Milan,
- Tutoring**
- Supervisor of more than 50 master students, 7 PhD students (PhD in Pharmaceutical Sciences at the University of Milan) and 5 post-doctoral fellows. He is currently supervisor of 2 Marie Curie PhD students and one post-doctorate.

RESEARCH ACTIVITY

Scientific productivity and impact

Prof. Aldini is indexed in the Top Italian Scientist (<http://www.topitalianscientists.org>) with an H-index of 49, 180 original publications and reviews and several book chapters, more than 7100 citations. GA has presented more than 50 communications by invitation to the main national and international institutions and conferences.

Research interest

- oxidative stress and molecular approaches to its modulation;
- Pharmaceutical, biopharmaceutical and proteomics analysis;
- Analytical aspects for the identification, characterization, quantification and biological activity of proteins (AGE and ALE) and oxidized lipids;
- Development and application of analytical methods for the identification, characterization and quantification and for the study of the activity and mechanisms of action of bioactive compounds isolated from plant matrices.

Member of Scientific and Organizing Committee

Member of scientific and organizing committees of numerous national and international congresses;

- 2008 Member of the Scientific Committee of the 13th Summer Course on Pharmaceutical analysis, Rimini, 21-23 September 2008
- 2008 Member of the Scientific Committee of the 5th MS-Pharmaday 2008, Verona October 27-29, 2008
- 2009 Co-chair of the International Congress RDPA2009 "Recent Developments in Pharmaceutical Analysis" September 9-12, 2009 Milan, Italy.
- 2009 Member of the Scientific and Organizing Committee of the 14th Summer School on Pharmaceutical Analysis 7-9 September 2009, Milan, Italy.

- 2010 Member of the Scientific Committee of the 6th MS-Pharmaday, Milan October 6-8, 2010
 - 2010 Member of the Scientific Committee of MASSA 2010, Milan, October 6-8, 2010
 - 2011 Member of the Scientific Committee of RDPA2011 "Recent Developments in Pharmaceutical Analysis", September 21-24, Pavia, Italy
 - 2011 Member of the Scientific and Organizing Committee of the International congress on "Carnosine in exercise and disease", July 10-12, 2011 Ghent, Belgium.
 - 2011 Member of the Scientific and of the Organizing Committee of the workshop "La spettrometria di massa in Lombardia". Milan, December 1, 2011
 - 2013 Member of the Scientific Committee of the 24th International Symposium on Pharmaceutical and biomedical analysis (PBA2013), Bologna, Italy.
 - 2014 Member of the Scientific Committee of the International Congress on Carnosine and Anserine 2014, ICCA2014, Tokio, Japan.
 - 2017 Member of the Scientific Committee of the International Congress on Carnosine and Anserine 2017, September 12-14, University of Louisville, Louisville, KY, USA
 - 2017 Member of the Scientific and Organizing Committee of the International Congress Recent Development in Pharmaceutical Analysis, 20-23 September 2017
 - 2019 Member of the Organizing Committee of National Meeting in Medicinal Chemistry: NMMC2019, Milan, July, 16-19 2019
 - 2019 Member of the Scientific and Organizing Committee of Recent Developments in Pharmaceutical Analysis, Pescara September 8-11, 2019
 - Member of the Scientific and Organizing Committee of the Summer School in Pharmaceutical Analysis (the School is organized by the Italian Chemical Society and sponsored by the European Federation in Medicinal Chemistry.).
- Editorial activities**
- Guest editor of the special issue : "Advanced analytical strategies for recombinant therapeutic proteins" published in Current Pharmaceutical Biotechnology, Bentham Science, 2011 Oct;12(10):1507.
 - Co-editor of the book entitled "Biomarkers for antioxidant defense and oxidative damage" 2010 Wiley-Blackwell Publishing.
 - Member of the Editorial Advisory Board for the journal "The Open Biomarkers Journal" (Bentham Science Publishers) <http://www.benthamscience.com/open/tobiomj/EBM.htm>
 - Co-editor of the special issue Special issue on "AGEs and ALEs: chemistry, physiopathology and molecular strategies for their inhibition" published in Free Radical Research <http://informahealthcare.com/toc/fra/47/S1>
 - Member of the Editorial Board of the Journal "Free Radical Research" (from 2019)

Competitive grants

- PRIN 2009: "Metodologie analitiche avanzate nella ricerca e sviluppo del farmaco e dei prodotti per la salute durata": 24 months; responsible of unit.
- 2007-2009: responsible of the Pharmaceutical analysis unit of the Department of Pharmaceutical Sciences for the project granted from the Ministero della salute commissione per la vigilanza ed il controllo sul doping e per la tutela della salute nelle attività sportive - art.3, comma 1, lett. c) e art. 10, comma 1, l.376/2000. Title: Misure finalizzate alla rilevazione e prevenzione dell'uso non ammesso di metilprednisolone: identificazione di markers metabolici; 24 months;
- 2010-2012: responsible of the financed project granted form Regione Lombardia "Call for Technological and Scientific Cooperation Agreements" (decree n. 6737 July, 2nd 2009) Title of the project: Biomarkers per la diagnosi precoce di patologie cardiovascolari e per la valutazione di efficacia antiossidante di nuovi nutraceutici in soggetti affetti da sindrome metabolica ID _16749 and Ref.n° SAL60. D.d.s. n.6118 June, 18th 2010 (BURL n.26 S.O. June, 28th 2010). 18 months
- 2015-2019. H20MCITNIF - Horizon 2020 _Marie Skłodowska-Curie actions-Innovative Training Network (ITN)/Individual Fellowships (IF). MASS Spectrometry TRaining network for Protein Lipid adduct Analysis. Responsible of UNIMI unit. 2017-2019. CONTR_MIN - Contratti di ricerca finanziata da Ministeri. Esecuzione delle attività inerenti la "Convenzione tra il Ministero della Salute e IZS-PLVdA per la sorveglianza sui costituenti di origine animale nei mangimi - anni 2016-2017".

Industrial Grants

Principal investigator of more than 15 industrial grants

Competitive project evaluator

- BARD, the United States - Israel Binational Agricultural Research & Development Fund
- Austrian Academy of Sciences

- Israel Science Foundation
- Diabetes Australia
- Austrian Academy of Sciences
- PRIN, MIUR, Italy
- Istituto Zooprofilattico Sperimentale del Piemonte, Liguria e Valle d'Aosta (Italy)

Patents

- COMPOSTI AD ATTIVITÀ CONSERVANTE, ANTIMICROBICA E ANTISETTICA, IT201700103637A1
- MIXTURE OF DIPEPTIDES TO IMPROVE EXERCISE PERFORMANCE; WO2018115274A1
- IMPROVED SYSTEM FOR THE EXPRESSION OF THE RECEPTOR FOR THE ADVANCED; EP3288971A1
- GLYCATION END PRODUCTS (AGES) AND THE ADVANCED LIPID GLYCATION END PRODUCTS (ALES) AND APPLICATIONS THEREOF; KR101696684B1
- METHODS FOR SCREENING INHIBITOR OF REACTIVE CARBONYL SPECIES; KR101696684B1
- ANTIOXIDANT COMPOSITION CONTAINING, AS ACTIVE INGREDIENT, BLACK STICKY RICE WITH GIANT EMBRYOS; WO2016068439A1
- METHODS OF USING CARNOSINOL AND ANALOGS THEREOF; WO2015191533A1
- AMINO ALCOHOL DERIVATIVES AND THEIR THERAPEUTIC ACTIVITIES; US2012316212A1
- PEPTIDE DERIVATIVES WITH THERAPEUTIC ACTIVITY; EP2041157A1
- COMPOSITIONS CONTAINING D-CARNOSINE; WO2005120543A1
- METHODS TO MEASURE LIPID ANTIOXIDANT ACTIVITY; WO02082093A2

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Milan, 7 October 2019

