

# Erika Del Grosso

## PERSONAL DATA

Born: 07/02/1974

## BIO AND EDUCATION

1993: high School Certificate at the Liceo Scientifico "A. Antonelli"

September 1998- July 1999: Experimental thesis in organic synthesis University of Turin, Faculty of Pharmacy

July 1999: University Degree in Chemistry and Pharmaceutical Technologies at the Università del Piemonte Orientale "A. Avogadro"

March 2000- 30 September 2002: PhD in Pharmaceutical Chemistry, XXV cycle, University of Turin, Faculty of Pharmacy.

March 2002: Winner of the competition as a researcher for the CHIM08 scientific area, with subsequent service start at the 1 October 2002 as a Researcher at the Dipartimento di Scienze Chimiche, Alimentari, Farmaceutiche e Farmacologiche, Faculty of Pharmacy, University of Piemonte Orientale "A. Avogadro "

Gennaio 2003: PhD Graduation with a thesis entitled "Design and study of selective cyclooxygenase-2 (COX-2)", University of Turin - Dipartimento di Scienza e Tecnologia del Farmaco; Ph.D. in Pharmaceutical Chemistry, XV cycle.

Ottobre 2005-...: Confirmed Researcher

## UNIVERSITY CAREER

2015-	Confirmed researcher at the Università del Piemonte Orientale, SSD CHIM 08
2002-2005	Non confirmed researcher at the Università del Piemonte Orientale, SSD CHIM 08

## UNIVERSITY POSITIONS

2013-	Member of the Collegio dei Docenti della Scuola di Dottorato in Chemistry and Biology, Università degli studi del Piemonte Orientale.
2005-2013	Member of the Collegio dei Docenti della Scuola di Dottorato in Biotecnologie Farmaceutiche e Alimentari, Università degli studi del Piemonte Orientale

## SCIENTIFIC POSITIONS

2013-2016	Member of the Scientific Committee of the Summer School on Pharmaceutical Analysis
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## MAIN FIELDS OF INTEREST

1. Pharmaceutical Analyses
2. LC-MS, HPLC-UV, GC-MS Analyses

## CURRENT ISSUES OF RESEARCH

1. Studies of the activity, inhibition and enzyme kinetics via *LC-MS*
2. Metabolism studies and structure-metabolism relations of drugs and/or of substances of potential pharmaceutical interest via *LC-MS*.
3. Development of quali/quantitative analytical methods for the characterization of complex mixtures and/or the metabolic products of drugs via *LC-UV* and *LC-MS*.
4. Characterization and determination via *LC-MS* of the structure of the degradation products of molecules of pharmaceutical interest.
5. Development and validation of analytical methods used in ongoing studies of stability of active ingredients and their formulations (*LC-UV* and *LC-MS*)

## CURRENT FUNDED PROJECTS

PROGRAMME	FUNDED PROJECT
<b>PROGETTI DI RICERCA LOCALE 2015</b>	“Ottimizzazione e convalida di nuovi metodi LC-MS per l’individuazione di inibitori di enzimi coinvolti nel catabolismo del triptofano nel vettore malarico <i>Anopheles Gambiae</i> ”

## TOP FIVE PAPERS

1. Aprile S; Del Grosso E; Grosa G ; In vitro and in vivo phase II metabolism of combretastatin A-4: evidence for the formation of a sulphate conjugate metabolite. *Xenobiotica*. (2009), 39(2), 148-61doi: 10.1080/00498250802566976
2. Aprile S; Del Grosso E; Grosa G ; In vitro metabolism study of 2-isopropyl-9H-thioxanthen-9-one (2-ITX) in rat and human: evidence for the formation of an epoxide metabolite. *Xenobiotica*. (2011), 41(3), 212-25 doi: 10.3109/00498254.2010.532887
3. Del Grosso E; Aprile S; Grosa G; Forced degradation study of thiocolchicoside: Characterization of its degradation products, *Journal of Pharmaceutical and Biomedical Analysis* 61 (2012) 215– 223 doi: 10.1016/j.jpba.2011.12.008
4. Aprile S., Del Grosso E., Grosa G. In vitro metabolic fate of alizapride: evidence for the formation of reactive metabolites based on liquid chromatography-tandem mass spectrometry, *J. Mass. Spectrom.* (2012), 47, 737–750 doi: 10.1002/jms.3011
5. Canavesi R., Aprile S., Giovenzana G. B., Di Sotto A., Di Giacomo S., Del Grosso E., Grosa G. New insights in oxybutynin chemical stability: Identification in transdermal patches of a new impurity arising from oxybutynin N-oxide rearrangement, *European Journal of Pharmaceutical Sciences* (2016), 84, 123–131 doi: 10.1016/j.ejps.2016.01.015

## **FURTHER INFORMATION**

### **Thesis Coordinator**

-Relatore di 12 e correlatore di 16 tesi di Laurea

### **Reviewer's activity**

Reviewer for the journals Chromatographia, Bioorganic & Medicinal Chemistry Letters, Chemical Industry & Chemical Engineering Quarterly (CI&CEQ)