EMANUELE PORRU



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Sex Male

Date of birth 22/12/1990

Birth Place Cagliari

Nationality Italian

Fiscal code: PRRMNL90T22B354F

CHEMIST / Analytical Chemistry

Education	
From October 2016	Ph.D student in "Analytical Chemistry" Department of Chemistry "Giacomo Ciamician", University of Bologna. <i>PhD project: Development of analytical methods</i> <i>in liquid chromatography and mass spectrometry</i> <i>field.</i>
From January 2014 to March 2016	Master's degree in "Analytical Chemistry" Final Degree Mark 110/110 Department of Chemistry "Giacomo Ciamician", University of Bologna. Thesis Internship in analytical chemistry: Development and validation of an HPLC- ESIMS/MS method for the pharmacokinetic study of berberine and berberrubine in rats.
From October 2009 to December 2013	Bachelor's degree in "Chemistry", Final Degree Mark 108/110 Department of Chemistry, University of Cagliari. Thesis Internship in Physical Chemistry: Excess volumes of non-reactive binary mixtures of carboxylic acids and aliphatic ethers.
Experiences	
From May 2019 to August 2019	Visiting PhD student Research period at Karolinska Institute, Division of clinical Chemistry.
From March 2016 to September 2016	Researcher Develop and validation of analytical method. Company: RD PHARMADVICE S.R.L.

	June 2009	Internship in Analytical Chemistry Laboratory (40 hours) Company: S.G.S. Italia S.p.A.
Keywords:	Technical Skill	 Analytical techniques: Mass spectrometry, spectrophotometry, chromatography and theoretical knowledge
Hardworking		of most used analytical techniques. Chemometric analysis techniques
Responsible		 Extraction methods for analytes in complex matrix (SPE, SPME, Soxhlet) Others:
Collaborative		 Franz Diffusion Cell system for skin permeation assay in topical formulation development.
Goal setting		Computer skills : Good command of Microsoft Office, Waters MassLynx, The Unscrambler X, ChemDraw, GraphPad Prism and photo editing software.
Honest	Other Skills	Management and organization: Management of several projects and collaborations, planning work to achieve goals
Self-motived		and targets on time.
Organized Planner		Communication: Coaching and collaboration with other scientists, outlining objectives, methodology, and conclusions. Good communication/presentation skills: presented data clearly and confidently to both small and large groups.
Team worker		Teaching: Supervising of students in chemistry laboratory during thesis projects, internship periods and university courses.
Independent worker	Responsibilities	
	From January 2017 To January 2019	Elected representative of the Ph.D. students of the Department of Chemistry.
	From January 2018 To June 2018	Named auxiliary technical advisor for criminal proceeding in environmental pollution field.

Achievement	Publications:
	 Serum Bile Acids Profiling in Inflammatory Bowel Disease Patients Treated with Anti-TNFs. Roda G, Porru E, Katsanos K, Skamnelos A, Kyriakidi K, Fiorino G, Christodoulou D, Danese S, Roda A. Cells. 2019 Aug 2;8(8). Pii: E817.
	 Identification and quantification of oxo-bile acids in human faeces with liquid chromatography–mass spectrometry: a potent tool for human gut acidic sterolbiome studies. Franco P*, Porru E*, Fiori J, Gioiello A, Cerra B, Roda G, Caliceti C, Simoni P, Roda A.
	J Chromatogr A. 2019 Jan 25;1585:70-81.
	 Suppression of Hepatic Bile Acid Synthesis by a non-tumorigenic FGF19 analogue Protects Mice from Fibrosis and Hepatocarcinogenesis. Gadaleta RM, Scialpi N, Peres C, Cariello M, Ko B, Luo J, Porru E, Roda A, Sabbà C, Moschetta A. Sci Rep. 2018 Nov 21;8(1):17210.
	 Role of bile acids in inflammatory bowel disease. Tiratterra E, Franco P, Porru E, Katsanos KH, Christodoulou DK, Roda G. Ann Gastroenterol. 2018 May-Jun; 31(3):266-272.
	 Combined analytical approaches to define biodistribution and biological activity of semisynthetic berberrubine, the active metabolite of natural berberine. Porru E, Franco P, Calabria D, Spinozzi S, Roberti M, Caliceti C, Roda A. Anal Bioanal Chem. 2018 Jun;410(15):3533-3545.
	 Long-term Administration of Nuclear Bile Acid Receptor FXR Agonist Prevents Spontaneous Hepatocarcinogenesis in Abcb4-/- Mice. Cariello M, Peres C, Zerlotin R, Porru E, Sabbà C, Roda A, Moschetta A. Sci Rep. 2017 Sep 11;7(1):11203.
	Communication at congress:
	 (Oral) Serum bile acid quantification in antiTNF alpha treatment for inflammatory bowel disease combined to multivariate chemometric data analysis. Porru E, Franco P, Katsanos K, Christodoulouc D, Roda A, Roda G. Merck Elsevier Young Chemist Symposium, Rimini 19/11/2018
	 (Oral) HPLC-ES MS/MS method for the identification and quantification in human faces of gut microbiota products: oxo-bile acids Porru E, Franco P, Fiori J, Gioiello A, Cerra B, Roda G, Caliceti S, Simoni P, Roda A. XXVII National Congress of the Italian Chemical Society, Bologna 16 – 20/09/2018
	• (Poster) HPLC-ESI-MS/MS qualitative quantitative serum bile acid analysis in patients with Ulcerative Colitis and Crohn disease combined to multivariate chemometric data analysis. 42° ISCC: Riva del Garda, 29 – 03/06/2018
	 (Poster) Transdermal and mucoadhesive film preparations for the controlled release of pharmaceutical active ingredients Ronchi C, Roda A, Porru E, Franco P, Ronchi F. 50° Symposium AFI Rimini, 07 – 09/06/2017
	 (Poster)Development and validation of an HPLC-ES-MS/MS method for the study of pharmacokinetics and mass balance of berberine and berberrubine in rat. Porru E, Franco P, Spinozzi S, Cont M, Roberti M, Caliceti C, Roda A. 40° ISCC: Riva del Garda, 29 – 03/06/2016
	 (Poster) Obeticholic Acid biodistribution and metabolism in cirrhotic rats by means of liquidchromatography-tandem mass spectrometry analysis. Caliceti C, Calabria D, Guardigli M, Porru E, Tacchini E, Bernardi E, Massi A, Sacchetti G, Mirasoli M, Roda A. 40° ISCC: Riva del Garda, 29 – 03/06/2016

Teaching activity	
AY 2016/2017 AY 2017/2018	Tutor and teaching assistant for chemistry laboratory of university course: Analytical chemistry of pollutants. Pharmacy and Biotechnology Department, University of Bologna
Awards	
20/09/2018	Best oral presentation at XXVII National Congress of the Italian Chemical Society.
Language	
Mother tongue	Italian
Other language • Writing • Listening • Speaking	English B2 B2 B2 Common European Framework of Reference for Languages