

Curriculum vitae

PERSONAL INFORMATION **Alessandro Buratti**

WORK EXPERIENCE

01/11/2020–currently **PhD Student in Chemical Sciences**
University of Ferrara, Ferrara (Italy)

01/11/2019–31/10/2020 **Post-graduate research**
University of Ferrara, Ferrara (Italy)

Title of Scholarship researcher: Separation of polypeptide mixtures under non-linear conditions.

The work was carried out under the supervision of Prof. Alberto Cavazzini (Department of Chemical and Pharmaceutical Sciences). The scope of the work is to set up procedures for the separation of peptides extracted from complex natural matrices through the use of continuous preparative chromatography techniques. I could get more experience with modern analytical techniques, especially high-performance liquid chromatography HPLC (Agilent 1100) and ultra-high-performance liquid chromatography UHPLC (Agilent 1290) and innovative methods for continuous chromatography LC (batch Akta Pure, GE Healthcare and continuous Contichrom CUBE).

03/03/2017–currently **Waiter**
La casetta di Gerosa, Montemonaco (Italy)

Acquired skills:

- Good organizational and management skills.
- Excellent communication skills.
- Courtesy, speed and precision in the management of orders in the room.
- Respect of working hours.

Trainee employee
Fainplast s.r.l., Ascoli Piceno (Italy)

During the last year of high school, I had the opportunity to do an internship at Fainplast s.r.l. acquiring skills in quality control of polymeric materials.

ACADEMIC EXPERIENCE

01/10/2017–01/10/2019 **Master Degree in Chemical Sciences**
University of Ferrara, Ferrara (Italy)

110/110L

The internship period for the achievement of the master's thesis was carried out under the supervision of Prof. Alberto Cavazzini (Department of Chemical and Pharmaceutical Sciences).

My thesis work is aimed at optimizing the purification process by preparative liquid chromatography of a peptide of high pharmaceutical interest (Glucagon), in collaboration with Fresenius Kabi iPSUM (Villadose, Rovigo). In particular, I dealt with the optimization of a gradient chromatographic method that is easily applicable even in continuous chromatography conditions. During the thesis period I acquired good knowledge of using an instrument for preparative chromatography (Akta Pure, GE Healthcare) and of HPLC (Agilent 1100) and UHPLC (Agilent 1290) instrumentation. In the master's internship I was able to interface with topics that were not dealt with during the lessons, and therefore to develop an effective approach to unfamiliar subjects.

01/10/2014–14/09/2017

Bachelor's Degree in Chemistry

University of Camerino, Camerino (Italy)

During the internship of the Bachelor's degree course I dealt with the evaluation of the quality of Marche region's monovarietal extra virgin olive oils through chemical characterization.

12/11/2009–06/07/2014

High school Diploma of Chemical Expert

Livello 4 QEQ

Enrico Fermi Technical Technological Institute, Ascoli Piceno (Italy)

PERSONAL SKILLS

Mother tongue Italian

Foreign languages

	COMPRENSION		SPEAKING		WRITTEN PRODUCTION
	LISTENING	READING	INTERACTION	ORAL PRODUCTION	
English	B2	B2	B2	B2	B2

Communication skills

Good communication skills acquired during my experience as a waiter in a restaurant with multi-ethnic customers.

Good ability to work as a team and independently: being part of a research group taught me how to collaborate and respect my colleagues. At the same time, I learned to work alone, developing a deep independence from my guardians, managing to solve some problems on my own.

Organizational and management skills

Good organizational skills acquired during work and internship experiences.

Professional skills

During the internship periods for the bachelor's and master's degrees I gained experience on chromatographic and spectrophotometric techniques: in particular, I improved my skills on:

- ICP
- UV-Vis
- GC
- GC-MS
- HPLC
- PREPARATIVE HPLC

Digital skills

Good computer skills, especially in the Microsoft Office package:

- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint

Driver's license

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ACHIEVEMENTS

Conferences

Naples

28/11/2019–29/11/2019

Incontri di Scienza delle Separazioni

Publications

- Determination of the Thermodynamic Behavior of a Therapeutic Peptide in Overloading Conditions in Gradient Elution Chromatography.

Chiara De Luca, Simona Felletti, Giulio Lievore, Alessandro Buratti, Tatiana Chenet, Luisa Pasti, Massimo Morbidelli, Alberto Cavazzini, Martina Catani, Marco Macis, Antonio Ricci, Walter Cabri.
J Chromatogr Sep Tech, Vol.11 Iss.2 No:428.

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- Boosting the purification process of biopharmaceuticals by means of continuous chromatography.
Chiara De Luca, Simona Felletti, Giulio Lievore, Alessandro Buratti, Mattia Sponchioni, Alberto Cavazzini, Martina Catani, Marco Macis, Antonio Ricci, Walter Cabri.
LCGC Volume 6, Issue 38, pg 30–34.
- From batch to continuous chromatographic purification of a therapeutic peptide through Multicolumn Countercurrent Solvent Gradient Purification (MCSGP).
Chiara De Luca, Simona Felletti, Giulio Lievore, Alessandro Buratti, Sebastian Vogg, Massimo Morbidelli, Alberto Cavazzini, Martina Catani, Marco Macis, Antonio Ricci, Walter Cabri.
J. of Chromatography A, Vol. 1625, 16 August 2020, 461304.
- Mass transfer kinetics on modern Whelk-O1 chiral stationary phases made on fully- and superficially-porous particles.
S. Felletti, M Catani, G Mazzocanti, C De Luca, G Lievore, A Buratti, L Pasti, F Gasparini, A Cavazzini.
Submitted to J. of Chromatography A 2020.

Certifications State Examination for professional license – Chemistry
16/11/2020
University of Ferrara

The undersigned declares to be informed, pursuant to legislative decree n.196 / 2003 and GDPR 679/16 - "European regulation on the protection of personal data" that the personal data collected will also be processed with IT tools exclusively in the context of the procedure for which this declaration is made and for all related obligations. The signature is not affixed to protect the data of the person concerned, pursuant to EU Regulation 2016/679 and Legislative Decree 196/2003 updated to Legislative Decree no. 101/2018