



## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **Alessia Ciogli**

Address(es) Dipartimento di Chimica e tecnologia del farmaco,  
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Nationality Italian

**Occupational field** *Assistant professor in Organic chemistry (CHIM-06)*

### Work experience

**Dates** 2006-2010

Occupation or position held **Postdoctoral Fellow**

Main activities and responsibilities Research title: "Stereoselective separations and applications in pharmaceutical fields"  
Advisor: Professor Francesco Gasparrini

Name and address of employer *Drug Chemistry and Technology, "Sapienza" University of Rome*

Sector *Academic research*

**Dates** Jan–July 2008

Occupation or position held Visiting Researcher

Main activities and responsibilities Research title: Molecular recognition and enantiomer separation technologies  
Advisor: Prof. Wolfgang Lindner

Name and address of employer *Inst. of Analytical Chemistry and Food Chemistry, University of Wien*

Sector *Academic research*

**Dates** 2005-2006

Occupation or position held Consultant in a research project between "Ente Tabacchi Italiano" (ETI) and University "La Sapienza," Rome, Italy

Main activities and responsibilities Research title: "Design and synthesis of new chiral stationary phases for HPLC, and their applications in the separation of biomarkers in medicinal chemistry" Advisor: Professor Bruno Botta

Name and address of employer *Drug Chemistry and Technology, "Sapienza" University of Rome*

Sector *Academic research*

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|--|--|---------|--------------------|-------------------|----------------|
| <b>Dates</b>   | <b>2002-2013</b>   |         |                    |                   |                |
| Occupation or position held                                    | Research activity funded by <i>Ministero dell'Istruzione, dell'Università e della Ricerca and Sapienza University</i> (PRIN, FIRB, Fond.Cenci Bolognetti)  |         |                    |                   |                |
| Main activities and responsibilities                           | The activity was focused on high performance separation systems based on chemo- and stereoselective molecular recognition.   |         |                    |                   |                |
| Name and address of employer                                   | <i>Drug Chemistry and Technology, "Sapienza" University of Rome</i>  |         |                    |                   |                |
| Sector   | <i>Academic research</i>   |         |                    |                   |                |
| <b>Education and training</b>                                  |  |         |                    |                   |                |
| Dates  | Feb. 2006  |         |                    |                   |                |
| Title of qualification awarded                                 | Ph.D., Pharmaceutical Sciences<br>Dissertation thesis: "New supports for HPLC. Design, synthesis and study of their ability of molecular and stereoselective recognition"  |         |                    |                   |                |
| Name and type of organisation providing education and training | University "La Sapienza," Rome, Italy  |         |                    |                   |                |
| Dates  | Nov. 2001  |         |                    |                   |                |
| Title of qualification awarded                                 | <i>Master's Degree In Medicinal Chemistry and Pharmaceutical Technologies</i>  |         |                    |                   |                |
| Name and type of organisation providing education and training | <i>Faculty of Pharmacy, University "La Sapienza," Rome, Italy</i>  |         |                    |                   |                |
| <b>Personal skills and competences</b>                         | <p><b>Chemistry:</b> A large experience in development and characterization of new stationary phases for HPLC. Particularly, the main interest was addressed to the surface derivatization of spherical silica supports with natural or synthetic chiral selectors. Recently the study was focused on preparation of the new HILIC stationary phases and the chiral brush type stationary phases on sub-2 micron silica particles (UHPLC and UHPSFC applications).</p> <p><b>Analytical methods:</b> A large experience in employment of hyphenated techniques (HPLC/MS and HPLC/PDA/MS) to optimize analytical methods in biopharmaceutical field in order to separate and characterize, with particular regard, optically active substances. Besides a good mastery of UHPLC and CapLC was achieved together with dynamic-HPLC and dynamic-NMR for studying stereolabile substances.</p> |         |                    |                   |                |
| Mother tongue(s)   | <b>Specify mother tongue</b><br><i>Italian</i>   |         |                    |                   |                |
| Other language(s)  | <i>English, French</i>   |         |                    |                   |                |
| Self-assessment  | <b>Understanding</b>   |         | <b>Speaking</b>    |                   | <b>Writing</b> |
| <i>European level (*)</i>                                      | Listening  | Reading | Spoken interaction | Spoken production |                |
| <b>Language</b>  | English  | good    | good               | good              | good           |
| <b>Language</b>  | French   | good    | good               | good              | good           |
|  | (*) <a href="#">Common European Framework of Reference for Languages</a>   |         |                    |                   |                |
| <b>Additional information</b>                                  | Teaching activity at the Faculty of Medicine and Pharmacy "Sapienza" University of Rome:<br>- <i>Organic Chemistry and Chemistry of natural organic compounds</i>  |         |                    |                   |                |
| Receiving  | The best oral communication in the 7° Sigma Aldrich Young Chemists Symposium: 7° S.A.Y.C.S.,<br>Title: "New synthetic strategy for the preparation of RAM chiral stationary phases". (Riccione, Italy, 2007)   |         |                    |                   |                |

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| <p>Scientific Publication<br/>(n. 59, selected from 2014)</p> | <p>1 Omar H. Ismail , Alessia Ciogli , Claudio Villani , Michela De Martino, Marco Pierini , Alberto Cavazzini , David S. Bell , Francesco Gasparrini, Ultra-fast high-efficiency enantioseparations by means of a teicoplanin-based chiral stationary phase made on sub-2 <math>\mu\text{m}</math> totally porous silica particles of narrow size distribution, <i>Journal of Chromatography A</i>, 2016, 1427, 55–68.</p> <p>2 Patrizia Simone, Giuseppe Pierri, Patrizia Foglia, Francesca Gasparrini, Giulia Mazzocanti, Anna Laura Capriotti, Ornella Ursini, Alessia Ciogli, Aldo Lagana , Separation of intact proteins on <math>\gamma</math>-ray-induced polymethacrylate monolithic columns: A highly permeable stationary phase with high peak capacity for capillary high-performance liquid chromatography with high-resolution mass spectrometry, <i>J. Sep. Sci.</i>, 2015, 00, 1–8.</p> <p>3 Gloria Uccello Barretta, Federica Balzano, Federica Aiello, Francesca, Nardelli, Alessia Ciogli, Andrea Calcaterra &amp; Bruno Botta Covalently assembled resorcin[4]arenes and molecular tweezers: a chiral recognition rationale by NMR, <i>Supramolecular Chemistry</i>, 2015, 1-9.</p> <p>4 Sergio Menta, Marco Pierini, Roberto Cirilli, Fabia Grisi, Alessandra Perfetto, Alessia Ciogli, Stereolability of Chiral Ruthenium Catalysts With Frozen NHC Ligand Conformations Investigated by Dynamic-HPLC, <i>Chirality</i>, 2015, 27(10), 685-92.</p> <p>5 Florine Eudier, Paolo Righi, Andrea Mazzanti, Alessia Ciogli, Giorgio Bencivenni. Organocatalytic Atroposelective Formal Diels–Alder Desymmetrization of N -Arylmaleimides, <i>Org. Lett.</i>, 2015, 17(7):1728-31.</p> <p>6 Luca Sciascera, Omar Ismail, Alessia Ciogli, Dorina Kotoni, Alberto Cavazzini, Lorenzo Botta, Ted Szczerba, Jelena Kocergin, Claudio Villani, Francesco Gasparrini, Expanding the potential of chiral chromatography for high-throughput screening of large compound libraries by means of sub-2 <math>\mu\text{m}</math> Whelk-O 1 stationary phase in supercritical fluid conditions. <i>Journal of Chromatography A</i>, 2015, 1383, 160–168.</p> <p>7 Eduardo Sommella Giacomo Pepe Giovanni Ventre, Francesco Pagano Michele Manfra Giuseppe Pierri Omar, Ismail Alessia Ciogli Pietro Campiglia Evaluation of two sub-2<math>\mu\text{m}</math> stationary phases, core-shell and totally porous monodisperse, in the second dimension of on-line comprehensive two dimensional liquid chromatography, a case study: separation of milk peptides after expiration date. <i>Journal of Chromatography A</i>, 2015, 1375, 54-61.</p> <p>8 Rocchina Sabia, Alessia Ciogli, Marco Pierini, Francesco Gasparrini, Claudio Villani. Dynamic high performance liquid chromatography on chiral stationary phases. Low temperature separation of the interconverting enantiomers of diazepam, flunitrazepam, prazepam and tetrazepam <i>Journal of Chromatography A</i>, 2014, 1363, 144–149.</p> <p>9 Nicola Di Iorio, Paolo Righi, Andrea Mazzanti, Michele Mancinelli, Alessia Ciogli, and Giorgio Bencivenni. Remote Control of Axial Chirality: Aminocatalytic Desymmetrization of N-Arylmaleimides via Vinylogous Michael Addition <i>J. Am. Chem. Soc.</i> 2014, 136, 10250–10253.</p> <p>10 Cavazzini A., Marchetti N., Guzzinati R., Pierini M., Ciogli A., Kotoni D., D'Acquarica I., Villani C., Gasparrini F. Enantioseparation by ultra-high-performance liquid chromatography, <i>Trend in Analytical chemistry</i> , 2014, TrAC 95-103, 63, 95-103.</p> <p>11 Ciogli A., Pierri G., Kotoni D., Cavazzini A., Botta L., Villani C., Kocergin J., Gasparrini F. Toward enantioselective nano ultrahigh-performance liquid chromatography with Whelk-O1 chiral stationary phase, <i>Electrophoresis</i> 2014, 35, 2819–2823.</p> <p>12 Cavazzini A., Marchetti N., Guzzinati R., Pasti L., Ciogli A., Gasparrini F, Lagana A. Understanding Mixed-Mode Retention Mechanisms in Liquid Chromatography with Hydrophobic Stationary Phases, <i>Anal. Chem.</i> 2014, 86, 4919–4926.</p> <p>13 Ciogli A.; Simone P.; Villani C.; Gasparrini F.; Laganà A.; Capitani D.; Marchetti N.; Pasti L.; Massi A.; Cavazzini A. Revealing the fine details of functionalized silica surfaces by solid-state NMR and adsorption isotherm measurements: the case of fluorinated stationary phases for liquid chromatography, <i>Chemistry-A European Journal</i> 2014, 20, 8138 – 8148.</p> <p>14 Chiarucci M.; Ciogli A.; Mancinelli M.; Ranieri S.; Mazzanti A. The Experimental Observation of the Intramolecular NO2/CO Interaction in Solution <i>Angew. Chem. Int. Ed.</i>, 2014, 53 (21), 5405-5409.</p> <p>15 Kotoni D.; Ciogli A.; Villani C.; Bell D.S.; Gasparrini F. Separation of complex sugar mixtures on a hydrolytically stable bidentate urea-type stationary phase for hydrophilic interaction near ultra high performance liquid chromatography <i>J. Sep. Sci.</i>, 2014, 37, 527–535.</p> |
| <p>Textbooks (Chapters, etc.)</p>                             | <p>1) A. Ciogli, D. Kotoni, F. Gasparrini, M. Pierini, C. Villani, <i>Chiral supramolecular selectors for enantiomer differentiation in liquid chromatography</i> in <b>Topics in Current Chemistry</b> (2013) Vol. 340, doi: 10.1007/128_2013_452 edition: Springer-Verlag Berlin Heidelberg, IF: 8.456</p> <p>2) A. Ciogli, <i>Critical Surveys Covering The Year 2012: Meso- And Microfluidic Techniques</i> in <b>Seminars in Organic Synthesis</b> Edition: Marcantoni E., Renzi G. for XXXVIII “A. Corbella” Summer School.</p>  |