

Curriculum vitae – Anne-Catherine SERVAIS



A) 1. CIVIL STATUS

Name : SERVAIS
First name : Anne-Catherine, Wivine, Françoise
Place and date of birth : Waremmes, June 4th 1977
Nationality : Belgian
Marital status : Married, two children
Work address : Laboratory for the Analysis of Medicines, Department of
Pharmaceutical Sciences, CIRM, University of Liège, Quartier
Hôpital, B36, Tower 4, Avenue Hippocrate, 15, B-4000 Liège,
Belgium
Phone : ++32.4.366.43.54
E-mail : acservais@uliege.be

2. a) ACADEMIC QUALIFICATIONS

- June 2000 : Pharmacist from the University of Liège, Belgium
- September 2001: Master's degree in Pharmaceutical Sciences at the University of Liège, Belgium. "Separation and determination of pharmaceutical compounds using ion-pair nonaqueous capillary electrophoresis".
- January 2005: PhD in Pharmaceutical Sciences at the University of Liège, Belgium. "Separation and determination of pharmaceutical compounds in nonaqueous capillary electrophoresis: Influence of the simultaneous use of a cyclodextrin and an ion-pairing reagent".
- February – July 2008: Postdoctoral Researcher in the Department of Biomedical Analysis (Prof. G.J. de Jong) at the University of Utrecht (The Netherlands).

2. b) RESEARCH THEMATICS

- Study of virus-like particles of human papillomavirus (HPV-VLP) in capillary electrophoresis (CE) ;
- Development of new analytical strategies for the quantification of biomarkers (metabolites, peptides and proteins) using CE-laser-induced fluorescence (CE-LIF) and sheathless CE-mass spectrometry (CE-MS) ;
- Development of online/inline microreactors ;

- Study of chiral recognition mechanisms of cyclodextrins as well as new chiral selectors in nonaqueous CE ;
- Analysis of chiral drugs and physiologically-active compounds in complex media in CE and liquid chromatography (LC), including among others :
 - Study of the coupling of CE or LC and MS ;
 - Stereoselective determination of metabolites of chiral drugs in *in vitro* models using CE and LC ;
 - Multivariate optimization of electrophoretic and chromatographic methods ;
 - Validation of analytical and bioanalytical methods.

B) CURRENT POSITION AND EMPLOYMENT HISTORY

- 01/10/2000 - 30/09/2001 : « Boursière Ecole de Doctorat » in the Laboratory for the Analysis of Medicines (ULg, Prof. J. Crommen).
- 01/10/2001 - 30/09/2005 : Research Fellow at the National Fund for Scientific Research (FNRS).
- 01/10/2005 - 30/09/2006 : Scientific Research Worker at the National Fund for Scientific Research (FNRS).
- 01/10/2006 - 27/04/2010 : Postdoctoral Researcher at the National Fund for Scientific Research (FNRS).
- 28/04/2010 - 30/09/2010 : Postdoctoral assistant in the Laboratory for the Analysis of Medicines at the University of Liège (Prof. J. Crommen).
- 01/10/2010 - 30/09/2011 : Scientific Research Worker at the National Fund for Scientific Research (FNRS).
- 01/10/2011 - 30/10/2011 : Postdoctoral assistant in the Laboratory for the Analysis of Medicines at the University of Liège (Prof. M. Fillet).
- 01/11/2011 - 31/12/2015 : « Premier assistant », Laboratory for the Analysis of Medicines at the University of Liège (Prof. M. Fillet).
- 01/01/2016 – 30/09/2018 : « Chef de travaux », Laboratory for the Analysis of Medicines at the University of Liège (Prof. M. Fillet).
- 01/10/2018 - now : « Agrégé de faculté », Laboratory for the Analysis of Medicines at the University of Liège (Prof. M. Fillet).

C) TEACHING ACTIVITIES AND PHD STUDENT SUPERVISION

1. TEACHING ACTIVITIES

- *Integrated practical work* (PHAR2020-1, 40h Pr).
- *Integrated work I* (PHAR2019-1, 64h SI).
- *Integrated work II* (PHAR2219-1, 30h ARP).
- *Analytical methods* (TECH1005-1, partim III, 15h)
- Participation to *Analysis of Drugs* (PHAR0344-3, Prof. M. Fillet) and organization of the practical work.
- Participation to *Analytical Chemistry* (CHIM0430-1, Prof. M. Fillet) and organization of the practical work.

2. PHD STUDENT SUPERVISION

- NIZET Adrien, "Application of capillary electrophoresis to the determination of alkaline phosphatase isoenzymes", in progress.
- FARRE Segura Jordi, "Mass spectroscopy coupled to capillary electrophoresis contribution to quantification of frailty and sarcopenia biomarkers", in progress.
- NYSSSEN Laurent, "Innovative approach using sheathless CE-MS/MS for the quantification of hormones in native form", in progress.
- DEMELENNE Alice, "Electrophoretic microfluidic approaches for the analysis of synthetic and biological drugs", in progress.
- NAPP Aurore, "Analytical challenges for the determination of α -synuclein in the context of Parkinson disease", 2012-2018.
- BETTONVILLE Virginie, "Study of virus-like particles of human papillomavirus using capillary electrophoresis", 2013-2017.
- LAMALLE Caroline, "Capillary electrophoresis for the analysis of pharmaceutical and biopharmaceuticals in the context of drug counterfeiting", 2009-2015.
- ROUSSEAU Anne, "Enantiomeric separation of chiral drugs in nonaqueous capillary electrophoresis", 2007-2011.

D) SCIENTIFIC ACTIVITIES

1. AWARDS

- Recipient of the Biannual Award (2008-2009) of the Belgian Royal Academy of Medicine (Section of Pharmaceutical Sciences)
- Recipient of the Prize of "Amis de l'ULg" 2011.

2. SERVICES

High quality services not only for quality control but also to support development, optimization and validation of analytical and bioanalytical methods (qualitative and quantitative methods) following ICH/FDA recommendations in the context of a GMP environment.

3. PUBLICATIONS

- **Bibliometry (source: Scopus)**

Number of publications	H-index	Number of citations
Total : 76 (FI : 259.689) 1 st and last author: 26 (FI : 93.77)	25	1376

- **Articles in peer reviewed journals, reviews and book chapters**

see Orbi report

E) ADDITIONAL INFORMATION

Reviewer for : Electrophoresis, Journal of Chromatography A, Journal of Pharmaceutical and Biomedical Analysis, Talanta, Journal of Chromatography B, Analytical and Bioanalytical Chemistry, Journal of Separation Science, Analyst.