

**Dr Christelle JABLONSKI- LORIN**

**Birth :** 05.11.71, 45 years old

**Nationality :** French

**Marital status** married, 1 child (12 years, Romain)

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**PROFESSIONAL EXPERIENCE**

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**September 2002 to 2017**

**Senior scientist and Teacher/Lecturer** at the University of Applied Sciences, **FHNW, Institute of Chemistry and Bioanalytics**, in Muttenz.

-Responsible Scientist for Applied Research Projects in Synthesis, Nanotechnology and Chemical Engineering:

Collaborations in **Nanosciences** with BASF: synthesis of polymers of high refractive index (lenses), new colored nanoparticles for e-readers, development of inks of defined properties; with Print Color: development of novel safety tags of different levels against product piracy, VAN BAERLE: DoE and optimization of the synthesis of hydrophilic and hydrophobic silica nanoparticles, HEIQ: synthesis and evaluation of properties of manganese oxide and palladium silica nanoparticles, synthesis and analysis of polymers for textile coating.

**Synthesis of pharma intermediates** for ROCHE (heterocycles, aromatic chemistry), MERCK (Cholesterol), MERZ (Metabolites characterization, enzymatic reactions) and chiral building blocks (FLUKA) obtained by biotransformations with yeasts.

Different **microreactor / flow chemistry systems** developed in collaborations with Ciba, Novartis, SynphaBase.

-Practical education in synthesis: multistep synthesis (mg to g quantity), optimization and scale-up reactions, microwave chemistry.

- Practical education in chemical engineering techniques (unit operations: rectification, extractions, membrane filtration, crystallisation and microreactors, flow chemistry, on-line measurements)

-Lecturer: Biocatalysis, enzymatic reactions in organic chemistry and NMR interpretation for structures elucidation (1D, 2D experiments)-3<sup>rd</sup>, 5<sup>th</sup> and 6<sup>th</sup> semesters and Applied Organic Chemistry (Master in Life Sciences).

**10. 1999 – 09. 2002**

**Chemist in High Throughput Screening and Parallel Synthesis at Chemspeed Ltd (Augst)**

- Custom synthesis, preparation and analysis of libraries (10 to 1000 compounds) in solution phase and solid support.
- Synthesis of building blocks libraries
- Automation and development of the Chemspeed synthesizers.
- Preparation of the tests for customers (including application notes, posters)
- Training and support to the customers in Europe on the Chemspeed automated systems.

**04. 1998 – 09.1999**

**Post-doctorat funded by Rhône-Poulenc Rorer :**

- Preparation of a library of substituted diketopiperazines on polymer support (100 compounds)
- Automated synthesis on the Nautilus 2400 robot synthesizer (Argonaut) and IRORI system.

**Imperial College of Science, Technology and Medicine in London  
Supervision : Prof D. Craig and Prof A. Barrett**

**EDUCATION**

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- 1997 :** Graduate student in the PhD thesis, obtained with the grade “ très honorable avec les félicitations du jury ”, University of Orléans  
“ Elaboration and evaluation in stereocontrolled synthesis of vinyl sulfides and vinyl sulfones derived from sugars. Novel approaches to oxa- and azacycles of biological interest.”  
Supervision : Prof. Dr. P. Rollin
- 1994 :** D.E.A. Chimie et Physicochimie des Composés d'Intérêt Biologique, University of Orléans - France
- 1993 :** Master of Science in Chemistry (Organic chemistry), University of Orléans - France

## **LANGUAGES**

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Fluent in French and English, German (read and understood, basic spoken language).

## **SOFTWARES and TECHNICAL SKILLS**

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- Microsoft office, Accelerlys, Chemdraw, WINNMR, MASTREC, Stavex
- Use of the Reaxys, Scifinder, ACD, Chemoffice ultra, CyBy databases
- Practice in standard analytical techniques : NMR, FTIR, gel permeation chromatography, HPLC /MS, GC, microscopic IR on beads and nanoparticles, <sup>13</sup>C gel analysis of resins
- Familiar with various automated workstations

## **INTERESTS**

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Sport, cinema, reading, cooking