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**Date and place of birth:** 21<sup>st</sup> of June 1982, Onesti, Romania  
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## MEDICINAL CHEMISTRY POSTDOCTORAL RESEARCHER

### PROFESSIONAL EXPERIENCE

- **2011 (October) / (September) 2012:**  
**Postdoctoral Position** in « *Scaffold-hopping strategy: synthesis and biological evaluation of 5,6-fused bicyclic heteroaromatics and azachalcones as anticancer and antivasular agents* », **Organic Chemistry Laboratory**, Faculty of Chemistry, "Al. I. Cuza" University, Iasi, Romania.
- **2010 (October) / (September) 2011:**  
**Research Engineer** in « *Design, synthesis and biological evaluation of new molecules with anticancer potential and their valorization* », **Pharmacochemistry Laboratory**, Ecole des Hautes Etudes d'Ingénieur (HEI), Lille Catholic University, France.
- **2007 (October) / (September) 2010:**  
**PhD Thesis** « *Design, synthesis and pharmacological evaluation of dual inhibitors of farnesyltransferase and tubulin polymerization* », realized at the **Pharmacochemistry Laboratory**, HEI, Lille.
- **2009 (September) / present:**  
**Assistant Professor**, Faculté Libre des Sciences et Technologies (FLST), **Lille Catholic University** – lectures and tutorials (TD) of crystallography, general chemistry tutorials and organic and mineral chemistry practical works (TP); organic chemistry practical works (TP) at **HEI**.
- **2008 (April) / (April) 2009:**  
**Assistant Professor:** Institut Supérieur d'Agriculture (**ISA Group**), Lille – Lecture « *Chemical analysis applied to food sciences* » and related practical works (TP); Faculté Libre de Médecine (**FLM**), Lille Catholic University – general chemistry tutorials (ED); **FLST** – mineral chemistry practical works (TP).
- **2007 (February) / (September):**  
**Work experience** on « *Parallel synthesis* », **SERVIER Research Institute**, Paris, (Croissy-sur-Seine).
- **2006 (October) / (January) 2007:**  
**Work experience** on « *Design and synthesis of new inhibitors of thioredoxin-1* », **Research Laboratory of ICPAL** (Institut de Chimie Pharmaceutique Albert Lespagnol), Lille 2 University of Health and Law, France.
- **2005 (October) / (June) 2006:**  
**Work experience** on « *Design and synthesis of novel 2,5-dihydropyrazolo-[4,3-c]-quinolein-3-ones, potential ligands of cannabinoids receptors* », **Research Laboratory of ICPAL**, Lille 2 University of Health and Law, France.
- **2006 (28<sup>th</sup>-29<sup>th</sup> september) :**  
Participation to the **XI<sup>th</sup> Francophone Summit**- connection agent for the Romanian delegation, Bucharest, Romania.
- **2005 (4<sup>th</sup>-16<sup>th</sup> july) :**  
Participation to the Biochemistry Francophone Summer School (**École d'été francophone – Biochimie**) in Arad, Romania (in collaboration with Lille 1 University).
- **1997/2001 :**  
Sessions of scientific communications – prizes (Chemistry, Mathematics, Physics, and Geography), Onesti, Romania.

### EDUCATION

- **2007/2010:** **PhD Thesis** (October 1<sup>st</sup>, 2007 - September 24<sup>th</sup>, 2010) co-financed by HEI and Conseil Régional Nord-Pas-de-Calais, Drug Sciences Specialty, mention **Très Honorable**.
- **2007/2008:** **Mastère degree in "Drug Design"** at ICPAL (Lille 2 University) and National Graduate School of Engineering Chemistry of Lille (École Nationale Supérieure de Chimie de Lille - ENSCL), mention **Bien**.
- **2005/2007:** **Master Degrees obtained in parallel:**  
**Master M1+M2 "Drug Conception"** at ICPAL, Lille 2 University, mention **Bien** ;  
**Master M1+M2 "Chemistry and biochemistry of heterocyclic compounds"**, Faculty of Chemistry, "Al. I. Cuza University", Iasi, Romania, average 10 / 10.
- **2001/2005:** **Academic bachelor degree (licence) in Chemistry\*** Faculty of Chemistry, "Al. I. Cuza University", Iasi, Romania, average 9,9 / 10.  
*\* In Romania, the total duration of studies to reach the Bachelor's degree level was, until 2008, of 4 years.*
- **2001:** **Scientific Baccalaureate**, option Chemistry-Biology, National College "Gr. C. Moisil", Onesti, Romania, average 9,6 / 10.

### COMPETENCES (others than chemist)

- **Biological:** Development and/or realization of pharmacological tests on tubulin and on farnesyltransferase.
- **Linguistic:** **French** (bilingual); **English** (read, spoken, written); **Italian** (notions); **Romanian** (mother tongue).
- **Computing:** Office, scientific software (SciFinder, ChemDraw, IsisDraw).

- **Award laureate « L'Oréal/Unesco – For women in science » 2009**
- Main organizer of the **1<sup>st</sup> French-Romanian Colloquium of Medicinal Chemistry** (October 7-8, 2010), in Iasi, Romania (16 invited lecturers, 100 participants)
- Main organizer of the **2<sup>nd</sup> French-Romanian Colloquium of Medicinal Chemistry** (October 3-5, 2012), in Iasi, Romania

#### Publications :

- ◆ Alina GHINET, Nathalie VAN HIJFTE, Philippe GAUTRET, Benoît RIGO, Hassan OULYADI, Jolanta ROUSSEAU. **Studies on pyrrolidinones. Reaction of pyroglutamic acid and vinylogues with aromatics in Eaton's reagent.** *Tetrahedron*, **2012**, *68*, 1109-1116.
- ◆ Alina GHINET, Benoît RIGO, Jean-Pierre HÉNICHART, Delphine LE BROU-RYCKEWAERT, Jean POMMERY, Nicole POMMERY, Xavier THURU, Bruno QUESNEL, Philippe GAUTRET. **Synthesis and biological evaluation of phenstatin metabolites.** *Bioorganic & Medicinal Chemistry*, **2011**, *19*, 6042-6054.
- ◆ Delphine LE BROU-RYCKEWAERT, Nicole POMMERY, Jean POMMERY, Alina GHINET, Amaury FARCE, Jean-François WIART, Philippe GAUTRET, Benoît RIGO, Jean-Pierre Hénichart. **In vitro metabolism of phenstatin: potential pharmacological consequences.** *Drug Metabolism Letters*, **2011**, *5*, 209-215.
- ◆ Christophe WATERLOT, Daniel COUTURIER, Benoît RIGO, Alina GHINET, Marc DE BACKER. **DFT calculations on the Friedel-Crafts benzylation of 1,4-dimethoxybenzene using ZnCl<sub>2</sub> impregnated montmorillonite K10 – inversion of relative selectivities and reactivities of aryl halides.** *Chemical Papers*, **2011**, *65*(6), 873-882.
- ◆ Alina GHINET, Souhila OUDIR, Jean-Pierre HÉNICHART, Nicole POMMERY, Philippe GAUTRET. **Studies on pyrrolidinones. On the application of copper-catalyzed arylation of methyl pyroglutamate to obtain a new benzo[de]quinoline scaffold.** *Tetrahedron*, **2010**, *66*, 215-221.
- ◆ Alina GHINET. **Réactions en Cascade, Découverte d'une Nouvelle Classe d'inhibiteurs de la Polymérisation de la Tubuline.** *Acta Chemica Iasi*, **2010**, *18*(2), 121-122 (Special Eddition).
- ◆ Alina GHINET, Jean-Pierre HÉNICHART, Benoît RIGO, Philippe GAUTRET. **One-Pot Synthesis and Discovery of a New Family of Polycyclic Compounds with Antitubulin Potential.** *Acta Chemica Iasi*, **2010**, *18*(2), 147-148 (Special Eddition).

**Posters:** 19 posters presented at International and National Congresses, **Winner of the « Camille Wermuth » Poster Prize** in 2010: Authors: Alina Ghinet, Jean-Pierre Hénichart, Benoît Rigo, Philippe Gautret. **Serendipity synthesis of a new family of red dyes.** *46<sup>th</sup> International Meetings in Therapeutical Chemistry*. Reims, France.

#### Conferences-Invited Speaker:

- ❖ Alina Ghinet « **Serendipity cascade reaction leading to red polycyclic compounds** », December 10-13, **2011**, *3<sup>rd</sup> International Conference on Heterocyclic Chemistry*, Rajasthan University, Jaipur, India.
- ❖ Alina Ghinet « **Réactions en cascade, découverte d'une nouvelle classe d'inhibiteurs de la polymérisation de la tubuline** », October 7-8, **2010**, *1<sup>st</sup> French-Romanian Colloquium in Medicinal Chemistry*, « Al. I. Cuza » University, Iasi, Romania.

-Member of the "American Chemical Society"

-Member of the "Société de Chimie Thérapeutique de France" (SCT)/ French Society of Medicinal Chemistry

#### Peer reviewer for:

- 1) **Chemical Papers:** Ying-Qian Liu et al. "Synthesis and insecticidal activity of novel camptothecin derivatives against *Brontispa longissima* in vivo".
- 2) **Chinese Journal of Chemistry:** Gao, Wentao et al. "A novel and facile synthesis of 2-(benzofuran-2-yl)benzo[h]quinoline-3-carboxylic acid derivatives".

#### Trainees' supervision:

- ❖ 3 Master 2 trainees « Conception du médicament » (Lille 2 University) and 2 Master 2 trainees « Chimia produselor cosmetice si farmaceutice » (« Al. I. Cuza » University, Romania)
- ❖ 2 Academic bachelor degree (licence) Trainees « Diplôme Universitaire Techniques d'Elaboration et d'Analyses de Biomolécules » (Lille 2 University, France) :
- ❖ 2 Superior technicians in chemistry BTS Trainees "Brevet de Technicien Supérieur Chimiste" (Lycée de l'Escaut, Valenciennes, France)