
CURRICULUM VITAE

PERSONAL INFORMATION

Name, First name: GHINET, Alina
Researcher unique identifier(s): E-8587-2011
ORCID: 0000-0001-6468-4331
Date of birth: 21st of June, 1982
Nationality: French and Romanian
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Link CV and list of publications:

<https://orcid.org/0000-0001-6468-4331>

<https://www.brainmap.ro/alina-ghinet>

H-Index: 18 (96 published articles, 2 book chapters, and 3 patents).

ASSOCIATE PROFESSOR – EXPERTISE IN MEDICINAL AND GREEN CHEMISTRY

FORMATION

- 2015, Oct-Nov: **Management Module**, “Être Manager au sein du Groupe-HEI-ISA-ISEN”, ‘Being Manager in the HEI-ISA-ISEN Group’, Cabinet RH Performances
- 2013-2014: **HDR, Habilitation à Diriger des Recherches (Habilitation to supervise PhD theses)**, Section 86 (Medicinal Chemistry), (defense date: 21/02/2014), Lille 2 University of Health and Law, Lille, France.
- 2007-2010: **PhD in medicinal chemistry** (01/10/2007, defense on 24/09/2010), mention ‘Very Honorable’ with honors, Lille 2 University of Health and Law, France.
PhD Supervisor: Prof. Benoît RIGO
- 2007-2008: **‘Mastère’ in “Drug Design”** (after master degree), double diploma from the ‘Institut de Chimie Pharmaceutique Albert Lespagnol’ (ICPAL) (Lille 2 University of Health and Law) and Ecole Nationale Supérieure de Chimie de Lille (ENSCL), France.
- 2005-2007: **2 Master degrees obtained in parallel:**
Master M1+M2 “Conception du médicament” (Drug Design) at ICPAL, Lille 2 University, France, Socrates-Erasmus scholarship during 2005-2006;
Master M1+M2 “Chemistry and biochemistry of heterocyclic compounds” at the Faculty of Chemistry, ‘Al. I. Cuza’ University of Iasi, Romania.
- 2001-2005: **License in Chemistry*** at the Faculty of Chemistry, ‘Al. I. Cuza’ University of Iasi, Romania, average 9.9/10.

* In Romania, the period of study to achieve the licensed level was, until 2008, of 4 years.

PROFESSIONAL EXPERIENCE

• CURRENT POSITIONS

- 2018 - **Team leader Sustainable Chemistry and Head of the Sustainable Chemistry and Health Laboratory** at Ecole des Hautes Etudes d’Ingénieur (HEI) (French School of High Studies in Engineering), JUNIA, Lille Catholic University, France;
- 2012 - **Associate Professor** at Ecole des Hautes Etudes d’Ingénieur (HEI), Lille Catholic University, France. Qualification to **Full Professor** of University obtained in 2018 in section 32: Organic, mineral and industrial chemistry; number of qualification: 18132216112.

- **PREVIOUS POSITION**

2010 – 2012 **Research engineer (postdoc)**, research topic « *Scaffold-hopping strategy: synthesis and biological evaluation of 5,6-fused bicyclic heteroaromatics and azachalcones as anticancer and antivascular agents* », Faculty of Chemistry, “Alexandru Ioan Cuza” University of Iasi, Romania; coordinator of the project PN-II-RU-PD-2012-3-0426, funding agency: UEFISCDI, total amount in euro: 69371,63 euro, and ongoing period: 01/05/2013-31/10/2015.

- **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

2009 –2023 **3 Postdoc / 6 PhD / 16 Master Students / 10 undergraduate students**

1 PhD defense on Sept. 2017 (Germain HOMERIN)

1 PhD defense on Dec. 2018 (Pierrick DUFRENOY)

1 PhD defense on Sept. 2019 (Anca-Elena DASCALU)

1 PhD defense on Sept. 2021 (Théo GUERIN)

1 PhD defense on April 2023 (Christine SAFI)

1 PhD in progress (Lisa BONIN, 3rd year)

- **TEACHING ACTIVITIES**

2012 - : **Current topics:** green chemistry, green metrics, drug discovery, synthesis strategies, and structure and properties of materials in HEI3, HEI 4 and in HEI5

2009 – 2010 Lecturer – topics: “*General chemistry, crystallography, organic chemistry*” (courses, seminars and lab), Lille Catholic University, Faculté Libre des Sciences et Technologies (FLST) and Ecole Supérieure Privée d’Application des Sciences (ESPAS), France

2008 – 2009 Lecturer – topic: “*Chemical analysis applied to food sciences*” (courses and lab), Institut Supérieur d’Agriculture (ISA), Lille, France and General chemistry seminars, Faculté Libre de Médecine (FLM), Lille, France

- **ORGANISATION OF SCIENTIFIC MEETINGS**

2010 Co-organizer and funder of the **1st French-Romanian Colloquium on Medicinal Chemistry**, October, 07-08, Iasi, Romania (abstracts published in *Acta Chemica Iasi*, **2010**, 18(2), 100-207).

2012 Co-organizer of the **2nd French-Romanian Colloquium on Medicinal Chemistry**, October, 03-05, Iasi, Romania (abstracts published in *Acta Chemica Iasi*, **2012**, 20(1), 1-66).

2014 Co-organizer of the **3rd French-Romanian Colloquium on Medicinal Chemistry**, October, 30-31, Iasi, Romania (abstracts published in *Acta Chemica Iasi*, **2014**, 22(2), 177-235).

2017 Co-organizer of the **4th French-Romanian Colloquium on Medicinal Chemistry**, October, 05-07, Iasi, Romania (abstracts published in *Acta Chemica Iasi*, **2017**, 25(2), 232-303).

2018 Member of the organizing committee of the **2nd International Symposium on Advances in Pharmaceutical Analysis (APA 2018)**, July, 12-13, Lille, France

- **COMMISSIONS OF TRUST**

From 2016 - **Grant evaluation (public or charities)**

Peer reviewer for the Science Fund of the Republic of Serbia (from 2019)

Peer reviewer for PCSI AUF Direction Régionale Moyen Orient (from 2017)

Peer reviewer for « Research Commission from Lille » since 2016

Project evaluator for the Technology Agency of the Czech Republic (TA CR) (Call DELTA 2) (2022)

Project peer reviewer for the National Science Center of Poland (from 2021)

Project peer Reviewer of the National Science Center, Poland (Call PRELUDIUM 2020)

From 2012 – **Ad-hoc reviewer** for 40 different international scientific journals (ACS Med. Chem.

Lett., Anti-Cancer Agents Med. Chem.; Arab. J. Chem.; Archiv. Der Pharmazie; Bioorg. Chem.; Bioorg. Med. Chem.; Bioorg. Med. Chem. Lett.; Chemistry and Biodiversity; Chem. Pap.; ChemistrySelect; Chin. J. Chem.; Curr. Bioactive Comp.; Curr. Med. Chem.; Curr. Org. Chem.; Eur. J. Pharmacol.; J. Chem. Biol.; J. Clinical Med.; J. Org. Chem.; J. Veterinary Pharmacol. and Ther.; J. Enz. Inh. Med. Chem.; Drug Des. Discov. Lett.; Lett. Org. Chem.; Org. Lett.; Mini-Rev. Med. Chem.; Molecules; Res. Chem. Intermed.; Tetrahedron; Pharmacol. Reports; Eur. J. Med. Chem.; Brain Res. Bull.; J. Mycologie Médicale; Nutrients; Environmental Pollution, etc).

From 2014 - Contributor to Wikipedia on women in science and chemistry topics

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

From 2014 – Member of URIS: “*Ingénieurs et Scientifiques de France, Union Régionale Nord-Pas-de-Calais*”, “*Engineers and scientists of France*”, member in charge of promoting science among high school girls to encourage them to commit to scientific higher education

From 2010 – Member of the *American Chemical Society (ACS)*

- Member jury BTS Supérieur Chimiste-Lycée de l’Escaut, Valenciennes (june 2012, june 2013, may 2018 and may 2019)

- Member jury Master 2 « Conception du médicament », Institut de Chimie Pharmaceutique Albert Lespagnol (ICPAL), Lille (june 2012, 2014 and 2015)

- Member jury for the selection of the best oral communication and poster, 27^{èmes} Journées Franco-Belges de Pharmacochimie, 05-07 june 2013, Lille

DISTINCTIONS – PALMARES 2009-2019
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- November, **2009: L'Oréal-UNESCO "For women in science" Prize**, Paris, France
- July, **2010: "Camille Wermuth" Poster Prize**, 46th International Conference on Medicinal Chemistry, Reims, France
- March, **2014: STAGES Prize** (Structural Transformation to Achieve Gender Equality in Science), Women's Annual Science and Technology Day, *Distinction for Young Researchers 2014*, FP7, Romania
- October, **2017 : Wicar et Hagelstein Prize, Medal in Sciences**, Société des sciences, de l'agriculture et des arts de Lille (SSAAL), France
- **2019: Elsevier Foundation Green & Sustainable Chemistry Challenge-Top 50**: Green Chemistry Idea “From boats to ... natural products and health!” <https://www.elsevierfoundation.org/programs/research-in-developing-countries/greenchem/2019-elsevier-foundation-green-sustainable-chemistry-challenge-top-50/>
- **2019 Artificial Intelligence Molecular Screen (AIMS) Atomwise Academic Award**, San Francisco, USA

04.07.2023

Dr. Alina GHINET
Associate Professor HDR



PUBLICATIONS

1. Andreea ZUBAȘ, Alina GHINET,* Amaury FARCE, Joëlle DUBOIS, Elena BÎCU.* **Phenothiazine- and carbazole-cyanochalcones as dual inhibitors of tubulin polymerization and human farnesyltransferase.** *Pharmaceuticals* **2023**, *16*, 888. IF: 5,215. *Corresponding authors.
2. Georgiana NEGRU (APOSTOL), Alina GHINET,* Elena BÎCU.* **7-Chloroquinolinehydrazones as first-in-class anticancer experimental drugs in the NCI-60 screen among different investigated series of quinoline, pyridine, benzothiazole and imidazolehydrazones.** *Pharmaceuticals* **2023**, *16*, 691. IF: 5,215. *Corresponding authors.
3. Samara Mejri, Alina Ghinet, Maryline Magnin-Robert, Béatrice Randoux, Cristina-Maria Abuhaie, Benoit Tisserant, Philippe Gautret, Benoit Rigo, Patrice Halama, Philippe Reignault, Ali Siah. **New plant immunity elicitors from a sugar beet byproduct protect wheat against *Zymoseptoria tritici*.** *Scientific Reports* **2023**, *13*, 90. IF: 4,996.
4. Andreea ZUBAS, Alina GHINET,* Sergiu SHOVA, Elena BÎCU*. **1,3-Dipolar cycloaddition of cycloimmonium salts and 4-(trimethylsilyl)-3-butyn-2-one to access new functionalized indolizines with potential cytostatic activity.** *New Journal of Chemistry* **2023**, *47*, 3758-3772, IF=3,925. *Corresponding authors.
5. Théo GUERIN, Alina GHINET, Christophe WATERLOT. **The phytoextraction power of *Cichorium intybus* L. on metal-contaminated soil: focus on time- and cultivar-depending accumulation and distribution of cadmium, lead and zinc.** *Chemosphere* **2022**, *287*, 132122. IF: 7,086.
6. Théo GUERIN, Nadège OUSTRIÈRE, David BULTEEL, Damien BETRANCOURT, Alina GHINET, Sandhya MALLADI, Justice Ganda KALEO-BIOH, Amaury BLANC-BRUDE, Abraham PAPPOE, Christophe WATERLOT. **Removal of heavy metals from contaminated water using industrial wastes containing calcium and magnesium.** *Journal of Cleaner Production* **2022**, *337*, 130472. IF: 9,297.
7. Pierrick DUFRENOY, Marie HECHESKI, Adam DAICH, Amaury FARCE, Emmanuelle LIPKA, Joëlle DUBOIS, Christophe WATERLOT, Alina GHINET.* **Green synthesis of a new series of pyroglutamides targeting human farnesyltransferase.** *Sustainable Chemistry and Pharmacy*, **2022**, *30*, 100894. IF: 5,464. *Corresponding author.
8. Antoine MORVAN, Camille GARNIER, Christophe FURMAN, David SPEYBROUCK, Eric BOULANGER, Alina GHINET, Emmanuelle LIPKA. **Separation of planar chiral ferrocenes by capillary electrokinetic chromatography and liquid chromatography.** *Journal of Chromatography A* **2022**, *1677*, 463306. IF: 4,601. <https://doi.org/10.1016/j.chroma.2022.463306>
9. Lisa BONIN, Antoine MORVAN, Gael COADOU, Christophe FURMAN, Eric BOULANGER, Alina GHINET, Emmanuelle LIPKA. **Supercritical fluid chromatography for separation of chiral planar metallocenes.** *Journal of Chromatography A* **2022**, *1674*, 463115. IF: 4,759. Doi: <https://doi.org/10.1016/j.chroma.2022.463115>
10. Anca-Elena DASCALU, Alina GHINET, Muriel BILLAMBOZ, David SPEYBROUCK, Emmanuelle LIPKA. **Comparison of enhanced fluidity liquid chromatography with liquid chromatography for enantioseparation of selected γ -lactam derivatives.** *Journal of Chromatography Open*, **2022**, *2*, 100026. Doi: <https://doi.org/10.1016/j.jcoa.2021.100026>.
11. Laura MENA, Muriel BILLAMBOZ, Rogatien CHARLET, Bérangère DESPRES, Boualem SENDID, Alina GHINET, Samir JAWHARA. **Two New Compounds containing Pyridinone or Triazine Heterocycles Have**

- Antifungal Properties Against *Candida albicans*.** *Antibiotics*, **2022**, *11*, 72. Doi: 10.3390/antibiotics11010072. IF: 4.639.
12. Serena JANHO DIT HREICH, Alina GHINET, Valérie VOURET-CRAVIARI. **Abstract 6326: Reshaping immune lung populations to inhibit pulmonary fibrosis and cancer by activation of purinergic receptor P2RX7.** *Cancer Research*, **2022**, *82* (12_Supplement), 6326-6326. IF : 12.701.
13. Laetitia DOUGUET, Serena JANHO DIT HREICH, Jonathan BENZAQUEN, Laetitia SEGUIN, Thierry JUHEL, Xavier DEZITTER, Christophe DURANTON, Bernhard RYFFEL, Jean KANELLOPOULOS, Cecile DELARASSE, Nicolas RENAULT, Christophe FURMAN, Germain HOMERIN, Chloé FERL, Julien CHERFILS-VICINI, Régis MILLET, Sahil ADRIOUCH, Alina GHINET, Paul HOFMAN, Valérie VOURET-CRAVIARI. **Small-molecule P2RX7 activator sensitizes tumor to immunotherapy and vaccinates mouse against tumor re challenge.** *Nature Communications* **2021**, *12*, 653. IF: 12,12. Doi: 10.1038/s41467-021-20912-2.
14. Germain HOMERIN, Adrian Sorin NICA, Abdelouhab AITOUICHE, Benoît RIGO, Emmanuelle LIPKA, Alina GHINET.* **Carbon dioxide transformation as a green alternative to phosgene and chloroformates: N-carboxyalkylation of lactams and analogues.** *Journal of CO₂ Utilization* **2021**, *54*, 101782. IF: 7,132.
15. Théo GUERIN, Christophe WATERLOT, Emmanuelle LIPKA, Philippe GERVOIS, David BULTEEL, Damien BETRANCOURT, Carla MOIGNARD, Adrian Sorin NICA, Christophe FURMAN, Alina GHINET.* **Ecocatalysed Hurtley reaction: synthesis of urolithin derivatives as new potential RAGE antagonists with anti-ageing properties.** *Sustainable Chemistry and Pharmacy* **2021**, *23*, 100518. IF: 4,508.
16. Georgiana NEGRU, Laure KAMUS, Elena BÎCU,* Sergiu SHOVA, Boualem SENDID, Faustine DUBAR,* Alina GHINET.* **Attempts to access a series of pyrazoles lead to new hydrazones with antifungal potential against *Candida* species including azole-resistant strains.** *Molecules* **2021**, *26*, 5861. IF: 4,411.
*Corresponding authors.
17. Théo GUERIN, Alina GHINET, Christophe WATERLOT. **Toward a New Way for the Valorization of Miscanthus Biomass produced on Metal-Contaminated Soils Part 2: Miscanthus-based biosourced catalyst: design, preparation and catalytic efficiency in the synthesis of Moclobemide.** *Sustainability* **2021**, *13*, 34. IF: 2,576.
18. Marie HECHESKI, Christophe WATERLOT, Pierrick DUFRENOY, Brice LOUVEL, Adam DAICH, Alina GHINET.* **Biomass of ryegrass from field experiments: Toward a cost-effective and efficient biosourced catalyst for the synthesis of Moclobemide.** *Green Chemistry Letters and Reviews* **2021**, *14*, 13-20. *Corresponding author. IF: 3,286. Doi: 10.1080/17518253.2020.1856943.
19. Fanny DANTON, Riham NAJJAR, Mohamed OTHMAN, Ata Martin LAWSON, Ján MONCOL, Alina GHINET, Benoît RIGO, Hassan OULYADI, Adam DAICH. **Site-Selective Pd-Catalysed Fujiwara-Moritani type Reaction of N,S-Heterocyclic Systems with Olefins.** *Advanced Synthesis & Catalysis* **2021**, *363*, 1088-1095. IF: 5,851.
20. Audrey DAMIENS, Anca-Elena DASCALU, Mohammad TAGHI ALEBRAHIM, Christophe FURMAN, Emmanuelle LIPKA, Alina GHINET, Jean-Louis HILBERT, Ali SIAH, Muriel BILLAMBOZ. **Around γ -lactam ring: discovery of potential wheat crop protection agents against *Zymoseptoria tritici*.** *Chemistry & Biodiversity* **2021**, *18*, e2100224. IF: 2,408.
21. Germain HOMERIN, Alina GHINET, Adrian Sorin NICA, Bezhan CHANKVETADZE, Emmanuelle LIPKA. **Optimization of detection of native amino acids with evaporative light scattering detector in chiral supercritical fluid chromatography.** *Chromatographia* **2021**, *84*, 179–185. IF: 1,596. <https://doi.org.ressources-electroniques.univ-lille.fr/10.1007/s10337-020-03999-5>.

22. Olivia MAY, Laure YATIME, Nicolas S. MERLE, Florian DELGUSTE, Mike HOWSAM, Marie DAUGAN, Muriel BILLAMBOZ, Alina GHINET, Steve LANCEL, Jordan D. DIMITROV, Eric BOULANGER, Lubka T. ROUMENINA, Marie FRIMAT. **The receptor for advanced glycation end products is a sensor for cell-free heme.** *The FEBS Journal* **2021**, 288, 3448-3464. IF: 4,750. <https://doi.org/10.1111/febs.15667>.
23. Samara MEJRI, Maryline MAGNIN-ROBERT, Béatrice RANDOUX, Alina GHINET, Patrice HALAMA, Ali SIAH, Philippe REIGNAULT. **Saccharin Provides Protection and Activates Defense Mechanisms in Wheat Against the Hemibiotrophic Pathogen *Zymoseptoria tritici*.** *Plant Disease* **2021**, 104, No 4, 780-786. IF: 3,583.
24. Alina GHINET,* Xavier THURU, Emilie FLOQUET, Joëlle DUBOIS, Amaury FARCE, Benoît RIGO. **Enhanced antitumor potential induced by chloroacetate-loaded benzophenones acting as fused tubulin-pyruvate dehydrogenase kinase 1 (PDHK1) ligands.** *Bioorganic Chemistry* **2020**, 96, 103643. *Corresponding author. IF: 4,831.
25. Iuliana-Monica MOISE, Elena BÎCU, Amaury FARCE, Joëlle DUBOIS, Alina GHINET.* **Indolizine-phenothiazine hybrids as the first dual inhibitors of tubulin polymerization and farnesyltransferase with synergistic antitumor activity.** *Bioorganic Chemistry* **2020**, 103, 104184. *Corresponding author. IF: 4,831.
26. Germain HOMERIN, Samir JAWHARA, Xavier DEZITTER, Davy BAUDELET, Pierrick DUFRENOY, Benoît RIGO, Régis MILLET, Christophe FURMAN, Guillaume RAGE, Emmanuelle LIPKA, Amaury FARCE, Nicolas RENAULT, Boualem SENDID, Rogatien CHARLET, Jordan LEROY, Mélodie PHANITHAVONG, Camille RICHEVAL, Jean-François WIART, Delphine ALLORGE, Sahil ADRIOUCH, Valérie VOURET-CRAVIARI, Alina GHINET,* **Pyroglutamide-Based P2X7 Receptor Antagonists Targeting Inflammatory Bowel Disease.** *Journal of Medicinal Chemistry*. **2020**. 63, 2074-2094. *Corresponding author. IF: 6,205. <http://dx.doi.org/10.1021/acs.jmedchem.9b00584>
- Paper selected for the Special Issue: Women in Medicinal Chemistry March 2020.*
27. Pierrick DUFRENOY, Rogatien CHARLET, Marie HECHESKI, Adam DAICH, Christophe WATERLOT, Samir JAWHARA, Alina GHINET.* **New efficient eco-friendly supported catalysts for the synthesis of amides with antioxidant and anti-inflammatory properties.** *ChemMedChem* **2020**, 15, 459-467. *Corresponding author. IF: 3,124.
28. Iuliana-Monica MOISE, Alina GHINET,* Sergiu SHOVA, Elena BÎCU.* **Switching the reactivity of cyanomethylpyridinium salts in the 1,3-cycloaddition conditions with alkyl propiolates to cyanoindolizines or cyanoazaindoliziny-indolizines** *Tetrahedron* **2020**, 76, 131502. * Corresponding authors. IF: 2,233.
29. Théo GUERIN, Alina GHINET, Marc HOSSART, Christophe WATERLOT. **Wheat and ryegrass biomass ashes as effective sorbents for metallic and organic pollutants from contaminated water in lab-engineered cartridge filtration system.** *Bioresource Technology* **2020**, 318, 124044. IF: 7,539.
30. Marie HECHESKI, Brice LOUVEL, Pierrick DUFRENOY, Alina GHINET, Christophe WATERLOT. **Toward a New Way for the Valorization of Miscanthus Biomass Produced on Metal-Contaminated Soils Part 1: Mesocosm and Field Experiments.** *Sustainability* **2020**, 20, 9370. IF: 2,576.
31. Gina-Mirabela DUMITRIU, Elena BÎCU, Benoît RIGO, Jan MONCOL, Adam DAICH, Alina GHINET. **In-depth examination of the Pterolactams behaviour in Lewis/Brønsted acid catalysis environment: Total isolation of the reaction products.** *ARKIVOC* **2020**, part viii, 94-114. IF: 1,253. <https://doi.org/10.24820/ark.5550190.p011.342>

32. Anca-Elena DASCALU, Alina GHINET, Bezhana CHANKVETADZE, Emmanuelle LIPKA. **Comparison of dimethylated and methylchlorinated amylose stationary phases, coated and covalently immobilized on silica, for the separation of some chiral compounds in supercritical fluid chromatography.** *Journal of Chromatography A* **2020**, *1621*, 461053. IF: 4,049.
33. Germain HOMERIN, Adrian Sorin NICA, Amaury FARCE, Joëlle DUBOIS, Alina GHINET.* **Ultrasound-mediated 10-seconds synthesis of chalcones as potential farnesyltransferase inhibitors.** *Bioorganic & Medicinal Chemistry Letters* **2020**, *30*, 127149. *Corresponding author. IF: 2,572.
34. Anca-Elena DASCALU, Alina GHINET, Emmanuelle LIPKA, Christophe FURMAN, Benoit RIGO, Antoine FAYEULLE, Muriel BILLAMBOZ. **Design, synthesis and antifungal activity of pterolactam-inspired amide Mannich bases.** *Fitoterapia* **2020**, *143*, 104851. IF: 2,527.
35. Anca-Elena DASCALU, Alina GHINET, Emmanuelle LIPKA, Christophe FURMAN, Benoit RIGO, Antoine FAYEULLE, Muriel BILLAMBOZ. **Design, synthesis and evaluation of hydrazine and acyl hydrazone derivatives of 5-pyrrolidin-2-one as antifungal agents.** *Bioorganic & Medicinal Chemistry Letters* **2020**, *30*, 127220. IF: 2,572.
36. Anca-Elena DASCALU, David SPEYBROUCK, Muriel BILLAMBOZ, David CORENS, Alina GHINET, Emmanuelle LIPKA. **Analytical and preparative enantioseparations in supercritical fluid chromatography using different brands of immobilized cellulose tris (3,5-dichlorophenylcarbamate) columns: some differences.** *Journal of Chromatography A* **2020**, *1622*, 461125. IF: 4,049.
37. Christophe WATERLOT, Pierrick DUFRENOY, Marie HECHESKI, Brice LOUVEL, Adam DAICH, Alina GHINET. **Benefits of Ryegrass on Multicontaminated Soils Part 2: Green Process to Provide Idrocilamide.** *Sustainability*. **2019**, *11*(23), 6685. IF: 2,592.
38. Anca-Elena DASCALU, Elena BICU, Sergiu SHOVA, Emmanuelle LIPKA, Benoît RIGO, Muriel BILLAMBOZ, Alina GHINET.* **Insights on chemical behavior of ethyl cyanofornate: dipolarophile, cyano or ethoxycarbonyl source.** *ChemistrySelect* **2019**, *4*, 13724 – 13730. *Corresponding author. IF: 1,716.
39. Anca-Elena DASCALU, Alina GHINET, Muriel BILLAMBOZ, Emmanuelle LIPKA. **Separations of antifungal compounds in capillary electrophoresis with two anionic cyclodextrins.** *Electrophoresis* **2019**, *40*, 1986-1991. IF: 2,569.
40. Marie HECHESKI, Brice LOUVEL, Pierrick DUFRENOY, Alina GHINET, Christophe WATERLOT. **The potential of ryegrass (*Lolium perenne* L.) to clean up multi-contaminated soils from labile and phytoavailable potentially toxic elements to contribute into a circular economy.** *Environmental Science and Pollution Research* **2019**, *26*, 17489-17498. IF: 2,800.
41. Marie HECHESKI, Brice LOUVEL, Pierrick DUFRENOY, Alina GHINET, Christophe WATERLOT. **A sustainable approach to manage metal-contaminated soils: a preliminary greenhouse study for the possible production of metal-enriched ryegrass biomass for biosourced catalysts.** *Environmental Monitoring and Assessment*. **2019**, *191*, 626. IF: 1,959. <https://doi.org/10.1007/s10661-019-7782-8>
42. Marie HECHESKI, Brice LOUVEL, Pierrick DUFRENOY, Alina GHINET, Christophe WATERLOT. **Effects of calcium phosphate on the (im)mobilization of metals and nutrients, on the biological activity and on the plant health from multi-contaminated urban soils.** *Water, Air and Soil Pollution*. **2019**, *230*, 206. IF: 1,774.
43. Anca-Elena DASCALU, Alina GHINET, Emmanuelle LIPKA, Marion COLLINET, Benoît RIGO, Muriel BILLAMBOZ. **Cesium salts as superior catalysts for solvent-free modifications of biosourced pterolactam.** *Molecular Catalysis* **2019**, *470*, 32-39. <https://doi.org/10.1016/j.mcat.2019.03.003>. IF: 2,938.

44. Fanny DANTON, Mohamed OTHMAN, Ata Martin LAWSON, Ján MONCOL, Alina GHINET, Benoît RIGO, Adam DAICH. **Phenylodine(III) Diacetate/I₂-Mediated Domino Approach for Pyrrolo[1,4]Thiazines and 1,4-Thiazines via a 'One-pot' Morin Rearrangement of N,S-Acetals.** *Chemistry-A European Journal* **2019**, 25, 6113-6118. IF: 5,16. <https://doi.org/10.1002/chem.201901111>
45. Liliana LUCESCU, Alina GHINET, Dalila BELEI, Sergiu SHOVA, Romain MAGNEZ, Xavier THURU, Amaury FARCE, Benoît RIGO, Joëlle DUBOIS, Elena BICU. **Exploring isoxazoles and pyrrolidinones decorated with 4,6-dimethoxy-1,3,5-triazine unit as human farnesyltransferase inhibitors.** *Arch. Pharm. Chem. Life Sci.* **2019**, e1800227. <https://doi.org/10.1002/ardp.201800227>. IF: 2,288.
46. Anca-Elena DASCALU, Alina GHINET, Muriel BILLAMBOZ, Emmanuelle LIPKA. **Performance comparison of chlorinated chiral stationary phases in supercritical fluid chromatography for separation of selected pyrrolidone derivatives.** *Journal of Pharmaceutical Analysis* **2019**, 9, 248-253. IF: 4,44.
47. Clovis BORTOLUS, Muriel BILLAMBOZ, Rogatien CHARLET, Karine LECOINTE, Boualem SENDID, Alina GHINET, Samir JAWHARA. **A small aromatic compound has antifungal properties and potential anti-inflammatory effects against intestinal inflammation.** *International Journal of Molecular Sciences.* **2019**, 20, 321-335. IF: 3,687.
48. Anthony PESQUET, Hamid MARZAG, Michael KNORR, Carsten STROHMANN, Ata Martin LAWSON, Alina GHINET, Joëlle DUBOIS, Amaury FARCE, Adam DAICH, Mohamed OTHMAN. **Access to 3-spiroindolizines containing an isoindole ring through intra-molecular arylation of spiro-N-acyliminium species: a new family of potent farnesyltransferase inhibitors.** *Organic & Biomolecular Chemistry.* **2019**, 17, 2798-2808. IF: 3,423.
49. Samara MEJRI, Ali SIAH, Cristina-Maria ABUHAIE, Patrice HALAMA, Maryline MAGNIN-ROBERT, Béatrice RANDOUX, Philippe REIGNAULT, Benoît RIGO, Alina GHINET. * **New salicylic acid and pyroglutamic acid conjugated derivatives confer protection to bread wheat against *Zymoseptoria tritici*.** *Journal of the Science of Food and Agriculture.* **2019**, 99, 1780-1786. *Corresponding author. IF: 2,379.
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POSTERS

(Co)author of 62 posters presented in national and international congresses

INVITED CONFERENCES and ORAL COMMUNICATIONS

Conf 1. Keynote lecture Alina Ghinet “**Sustainable chemistry applied to the synthesis of new RAGE antagonists with antiageing properties**”, 03-04 April **2023**, S-DISCO Days, Lecture Hall No. 1 - Faculty of Pharmacy, Medical University of Gdańsk, Poland.

Conf 2. Adeline Janus, Christophe Waterlot, Alina Ghinet ‘**Synthesis of bio-sourced catalysts from ryegrass produced on the metallurgical sites for the synthesis of therapeutic molecules: a possible option? Feedback from the NWE-REGENERATIS project**’, 05-06 October **2022**, *Intersoil 2022*, Bruxelles Environment, Bruxelles, Belgium.

Conf 3. Alina Ghinet ‘**Targeting the R.A.G.E.: Looking for anti-inflammaging drugs**’, 08 July **2022**, *Summer school Glycation, Maillard Reaction & Carbamylation, Applications to Food Technology, Nutrition & Human Health*, France Excellence, online, <https://www.international-academy.fr/food-health/>.

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Comm. orale 17. Liliana Lucescu, Souhila Oudir, Dalila Belei, Philippe Gautret, Benoît Rigo, Alina Ghinet. « **New methods of synthesis of 1,3,5-triazine-2,4(1H,3H)-diones, 4-methoxy-1,3,5-triazin-2(1H)-ones and 1,3-dimethyl-1,3,5-triazine-2,4-diones** ». 03-05 octobree 2012, 2^{ème} Colloque Franco-Roumain de Chimie Médicinale, Université « Al. I. Cuza », Iasi, Roumanie.

Comm. orale 18. Carmen Dumea, Alina Ghinet, Gina-Mirabela Dumitriu, Elena Bîcu, Dalila Belei « **Sinteza și evaluarea biologică a unor noi derivați fenotiazinici** », 26 mai 2012, *Chimia Frontiera Deschisa Spre Cunoastere*, Iasi, Roumanie.

Comm. orale 19. Cristina Abuhaie, Alina Ghinet, Dalila Belei et Elena Bîcu « **Sinteza și evaluarea biologică a unor noi derivați piridinici** », 26 mai 2012, *Chimia Frontiera Deschisa Spre Cunoastere*, Iasi, Roumanie.

Comm. orale 20. Nicoleta Lavinia Baci, Alina Ghinet, Dalila Belei et Elena Bîcu « **Studiul sintezei și evaluarea biologică a unor noi derivați pirazolici polisubstituiți** », 26 mai 2012, *Chimia Frontiera Deschisa Spre Cunoastere*, Iasi, Roumanie.

Comm. orale 21. Cristina Abuhaie, Alina Ghinet, Philippe Gautret, Benoît Rigo, Elena Bîcu « **Sinteze de noi indolizine cu acțiune antitumorală** » (**Synthèse de nouvelles indolizines avec action antitumorale**), 28 octobree 2011, « *Zilele Universitatii Alexandru Ioan Cuza* », *Session de Communications Scientifiques*, Iasi, Roumanie.

Comm. orale 22. Liliana Lucescu, Dalila Belei, Alina Ghinet « **Noi derivați triazinil-triazolici cu potențială activitate biologică** » (**Nouveaux dérivés triazinil-triazoliques avec une potentielle activité biologique**), 28 octobree 2011, « *Zilele Universitatii Alexandru Ioan Cuza* », *Session de Communications Scientifiques*, Iasi, Roumanie.

Research themes: My research in **medicinal chemistry** is based on the design, sustainable synthesis and biological evaluation of new *anti-cancer* and *anti-inflammatory agents*. In the anticancer field, my research is focused on inhibitors of tubulin polymerization and of protein farnesyltransferase. In the inflammatory diseases field, I am interested in P2X7-purinergic receptor ligands (agonists and antagonists) and RAGE antagonists.

My research in **organic synthesis** is focused on heterocyclic compounds (e.g. pyroglutamic acid) but also benzophenones and polycyclic aromatic hydrocarbons (PAH). The main synthetic transformations investigated are:

- N-acyliminium salts chemistry
- organometalic coupling
- heterogeneous catalysis with Lewis acids (supported on montmorillonite K10) and cocatalysts (issued from ashes coming from plants cultivated on contaminated soils), project « Ecocatalyst » (2 PhD theses)
- formation of new polycyclic systems
- formation of dimethoxytriazines
- ring-switching
- amidifications
- acylureas chemistry, etc.

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Dr. Alina GHINET
Associate Professor HDR

