

**GENERAL INFORMATION**

Kawthar BOUCHEMAL

43 y/o, French citizen, married, mother of three children

Institut Galien Paris Saclay, CNRS UMR 8612, Faculté de Pharmacie, Université Paris-Saclay

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e-mail: [kawthar.bouchemal@universite-paris-saclay.fr](mailto:kawthar.bouchemal@universite-paris-saclay.fr)Websites: <http://www.umr-cnrs8612.u-psud.fr> and <http://www.kawthar.bouchemal.sitew.com>**EDUCATION**

- 2012 Accreditation to conduct Research (HDR)  
*Université Paris-Sud*
- 2006 Doctor of Pharmacy  
*Université Claude Bernard Lyon-1*
- 2004 PhD in Pharmaceutical technology & drug delivery systems  
*Université Claude Bernard Lyon-1, UMR CNRS 5007, LAGEPP in the group of Pr. Hatem FESSI*
- 2001 Master's Degree in Medical and Biological Engineering  
*Université Claude Bernard Lyon-1*

**ACADEMIC POSITIONS**

- 2019-today Associate Professor  
*UMR CNRS 8612, Institut Galien Paris Saclay, Université Paris-Saclay*
- 2006-2019 Associate Professor  
*UMR CNRS 8612, Institut Galien Paris Saclay, Université Paris-Sud*
- 2015-2020 Institut Universitaire de France  
*Junior member*
- 2006 Post-doctoral Position (6 months)  
*University of GENEVA & collaboration with Université Claude Bernard Lyon-1*
- 2004-2006 Post-doctoral Position (18 months)  
*Université Claude Bernard Lyon-1, UMR CNRS 5007, LAGEPP*
- 2001-2004 Teacher of process engineering; chemical engineering; pharmaceutical formulation; colloids  
*École Supérieure de Chimie Physique et Électronique de LYON (ES-CPE)*
- 2001-2002 Teacher of chemistry and physical chemistry  
*Preparatory School of Chemistry, Physics and Electronics, Institut des Chartreux, LYON*

**MENTORING**

Since 2006, she has supervised 13 PhD and 23 Master Students coming from 13 different countries including: ITALY (University of SIENA, University of FERRARA, Università de CAMERINO), INDIA (SCTIMST, THIRUVANANTHAPURAM), CHILE (Universitario CONCEPCIÓN), IVORY COAST (School of Pharmacy, ABIDJAN), TURKEY (Ege University), PAKISTAN (University of Sindh, JAMSHORO), LEBANON (Lebanese University, NABATIEH), BRAZIL (Federal University of Minas Gerais, BELO HORIZONTE), SYRIA (University of ALEPO), HONG KONG (Faculty of Medicine, University of HONG KONG) and SPAIN (University of Complutense, MADRID). Some of them hold important positions as associate professors and others are post-doctoral fellows.

**AWARDS**

- 2021: APGI young Investigator award for a PhD thesis supervised by Kawthar BOUCHEMAL and Gilles PONCHEL (PhD student R. DIAZ-SALMERON)
- 2020-2024: Recipient of PhD and Research Supervising Bonus (PEDR)
- 2015-2020: Junior member of the Institut Universitaire de France (IUF)
- 2013 and 2016: Winner of two national competitions for creating the best Innovative Company. She has been awarded by the French Minister for Higher Education and Research
- 2012: APGI young Investigator award for PhD thesis supervised by Kawthar BOUCHEMAL and Gilles PONCHEL (PhD student S. MAZZAFERRO)
- 2010: Winner of the Scientific Grant of Excellence (PES in French) from the French government
- 2003: Award of the best poster presentation, 7<sup>th</sup> meeting of the Interdisciplinary Doctoral School (EDISS), LYON

**IMPLICATION IN THE ORGANIZATION OF SCIENTIFIC MEETINGS**

- 2016-2021: Chair & organizer of 7 conferences "Les Lundis de l'Institut Paris Saclay d'Innovation Thérapeutique" (IPSIT), 40-70 participants, CHATENAY-MALABRY
- 2013-2014: Co-organizer & member of the scientific committee of the 3<sup>rd</sup> & 4<sup>th</sup> Annual meetings of the Labex Lermite, ≈250 participants, ORSAY
- 2013: Member of the scientific committee and chair session of the 3<sup>rd</sup> Conference on Innovation in Drug Delivery, 357 participants, PISA
- 2013: Chair & organizer, "Pharmaceutical applications of drying process", 52 participants, Ecole des Mines d'ALBI
- 2012: Co-organizer & member of the scientific committee of the 27<sup>th</sup> Annual meeting of the GTRV, 172 participants, Sanofi, CHILLY-MAZARIN
- 2012: Chair & organizer, "Pharmaceutical applications of coating process", 42 participants, CHÂTENAY-MALABRY
- 2010: Chair & organizer, "New insights on the mechanical characterization of pharmaceutical formulations", 32 participants, PARIS
- 2009: Chair & organizer, "Applications of micro-calorimetry for the characterization of drugs", 42 participants, LYON
- 2008: Invited chairperson, 35<sup>th</sup> Controlled Release Society Annual Meeting, 12-16<sup>th</sup> July 2008, NEW YORK

## EXECUTIVE AND SCIENTIFIC BOARDS

2010-today: Member of the council of the Institut Galien Paris Saclay

2010-today: Member of the recruitment board of the Université Paris Sud and then Université Paris-Saclay

2015-today: Member of the council of the Laboratory of Excellence Labex Lermi, Université Paris-Saclay

2019-2021: Scientific evaluator and member of the advisory board of the Agence Nationale de la Recherche (ANR, CE6: Polymères, composites, physique et chimie de la matière molle, procédés)

2013-today: Scientific evaluator, Association Nationale, Recherche, Technologie (ANRT)

2013-today: Scientific evaluator ETH ZURICH Research Commission, SWITZERLAND

2020-today: Scientific expert, National Research and Development Agency (ANID), SPAIN

## EDITORIAL ACTIVITIES

2013-today: Member of the editorial board of *Pharmaceutical Research* journal

2013: Guest Editor of the *International Journal of Pharmaceutics*

2013: Guest Editor of the *Journal of Colloid Science and Biotechnology*

2006-today: Regular reviewer for more than **50** international journals including: *Biomaterials*, *Biomacromolecules*, *Carbohydrate Research*, *Langmuir*, *Macromolecules*, *Nanoscale*, *Pharmaceutical Research*, *Journal of Controlled Release*...

## FUNDING OF RESEARCH PROJECTS

The research works of Kawthar BOUCHEMAL have been supported by grants coming from academic institutions, French and foreign governments and from pharmaceutical companies for a total amount of **2.165 M€**. Among 20 granted projects, 15 were managed as a coordinator. Below a list of selected grants:

- 2022-2026, **coordinator** of the project CoroNa granted by the ANR (PRC: collaborative research project)
- 2021-2025, partner of the project JAROD granted by the ANR (PRC: collaborative research project). The project is coordinated by Dr. Laurent BOUTELLER, Institut Parisien de Chimie Moléculaire, Sorbonne Université, PARIS
- 2022-2025, partner of the project FUNPOLYVAC granted by the ANR (PRC: collaborative research project). The project is coordinated by Dr. Vishukumar AIMANIANDA, Institut Pasteur, PARIS
- 2021-2024, partner of the project NoEmiD granted by the ANR (PRC: collaborative research project). The project is coordinated by Dr. Laurence MICHEL, Unité HIPI, INSERM U976, Hôpital St Louis, Université de Paris, PARIS.
- 2017-2021: **coordinator** of the project Shape granted by the ANR (JCJC: projects coordinated by young researchers)
- 2018-2021: **coordinator** of the project ViroTrap granted by the Labex Lermi
- 2016-2018: **coordinator** of the project Drug Booster granted by the BPI France.
- 2014: **coordinator** of the CNRS Technology Transfer Grant: Design pilot-scale setups for the production of polymer nanoparticles
- 2012: **coordinator** of the project EcoNano granted by BPI France and La region Ile de France. Title: Self-assembly process to design shape-controlled nano-objects

## SCIENTIFIC PRODUCTION

- Kawthar BOUCHEMAL authored 3 book chapters, **79** peer reviewed articles, including 47 where she is the corresponding author and 66 in a leader/co-leader position. Updated list of peer reviewed articles is available [here](#)
- Selected journals: *Bioconjugate Chemistry*, *Journal of Controlled Release*, *The Journal of Physical Chemistry B*, *European Journal of Pharmaceutics and Biopharmaceutics*, *Antimicrobial Agents and Chemotherapy*, *Journal of Material Chemistry*, *Advanced Healthcare Materials*, *International Journal of Pharmaceutics*
- Bibliometric data (September 1<sup>st</sup>, 2021) collected from ISI web of science Thomson Reuters (<http://isiknowledge.com>): **h-index: 28**, sum of times cited without self-citation: 2910, average citation per item: 41.52

## TEACHING ACTIVITIES

- Since 2001: 196 to 256 hours/year of teaching
- Expertise: physical chemistry; drug delivery; formulation; nanotechnology; pharmaceutical technology; biopharmacy; process engineering
- Creation and management of several teaching units (Unité d'enseignements) at the Université Paris Saclay
- Implication in European consortiums: ULLA Summer School, Eugloh, European Master Nanomedicine
- In 2020 she founded a new master's training focused on the management of innovation in health. Follow the [link](#) for more details.

## TECHNOLOGY TRANSFER ACTIVITIES

- Inventor & co-inventor of 16 patents among which 4 are granted
- In 2014, she co-founded a biotech company (BKT). The company no longer exists because the president's retirement
- In 2013 and 2016, she was a winner of the national competition for creating the best Innovative Company
- Since March 2020: Responsible for valuing innovations and private public partnerships for the Institut Galien Paris Saclay

## AFFILIATION

- Member of the French Chemical Society (Société Chimique de France, SCF)
- Member of the French Society for Nanomedicine (Société Française de Nanomédecine, SFNano)
- Elected member of the APGI council (Association de Pharmacie Galénique et Industrielle, 2008-2014)
- Member of the Controlled Release Society

## HOBBIES

- Sport: Twenty-two years of regular practice of running and fitness gym: RPM (biking), body pump, body balance, body combat, boxing workout, CrossFit workout...
- Painting on canvas, photography, sewing.