

GENERAL INFORMATION

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EDUCATION

- 2012 Accreditation to conduct Research (HDR)
Université Paris-Sud
- 2006 Doctor of Pharmacy
Université Claude Bernard Lyon-1
- 2004 Ph.D. in Pharmaceutical Technology & Drug Delivery
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

- 2022-today Professor of Polymer Physical Chemistry & Formulation
Chemistry Research Institute of Paris (IRCP, UMR CNRS 8247)
École Nationale Supérieure de Chimie Paris (ENSCP), Chimie ParisTech, PSL Research University, PARIS
- 2019-2022 Associate Professor of Pharmaceutical Technology
Université Paris Saclay
- 2006-2019 Associate Professor of Pharmaceutical Technology
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 physical chemistry of colloids; process engineering; chemical engineering; pharmaceutical formulation; cosmetics
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, Institution des Chartreux, LYON

MENTORING

Kawthar BOUCHEMAL has supervised 13 Ph.D. and 26 Master's Students coming from 15 different countries, including ITALY (The University of SIENA, University of FERRARA, Università de CAMERINO), INDIA (SCTIMST, THIRUVANANTHAPURAM), CHILE (Universitario CONCEPCIÓN), ALGERIA (School of Pharmacy, ALGIERS), 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 ALEPPO), HONG KONG (Faculty of Medicine, University of HONG KONG) and SPAIN (University of Complutense, MADRID). Some hold positions in the pharmaceutical industry or as associate professors, and others are post-doctoral fellows.

AWARDS

- 2021: APGI Young Investigator award for a Ph.D. thesis co-supervised by Kawthar BOUCHEMAL (Ph.D. student R. DIAZ-SALMERON)
- 2020-2024: Recipient of Ph.D. 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 Ph.D. thesis co-supervised by Kawthar BOUCHEMAL (Ph.D. 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, 7th meeting of the Interdisciplinary Doctoral School (EDISS), LYON

IMPLICATION IN THE ORGANIZATION OF SCIENTIFIC MEETINGS

- 2022: Invited chairperson, Controlled Release Society Annual Meeting, 11-15th July 2022, MONTREAL
- 2022: Invited chairperson, 20th International Cyclodextrin Symposium, 13-17th June 2022, GIARDINI NAXOS, ITALY
- 2016-2021: Chair & organizer of 7 conferences "Les Lundis de l'Institut Paris Saclay d'Innovation Thérapeutique" (IPSIT), 40-70 participants, CHÂTENAY-MALABRY
- 2013-2014: Co-organizer & member of the scientific committee of the 3rd & 4th Annual meetings of the Labex Lermite, ≈250 participants, ORSAY
- 2013: Member of the scientific committee and chair session of the 3rd 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 27th 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, 35th Controlled Release Society Annual Meeting, 12-16th July 2008, NEW YORK

EXECUTIVE AND SCIENTIFIC BOARDS

2010-2022: Member of the council of the Institut Galien Paris Saclay
 2010-2017: Member of the recruitment boards of the Université Paris Sud
 2015-2017: Member of the council of the Laboratory of Excellence Labex Lermite, Université Paris-Saclay
 2019-2022: 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 **60** 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 from academic institutions, French and foreign governments, and pharmaceutical companies for a total of **2.165 M€**. Among 20 granted projects, 15 were managed as a coordinator. Below is a list of selected grants:

- 2022-2026, **coordinator** of the project CoroNa granted by the ANR (PRC: collaborative research project)
- 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
- 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 Lermite
- 2016-2018: **coordinator** of the project Drug Booster granted by BPI France.
- 2014: **coordinator** of the CNRS Technology Transfer Grant: Design pilot-scale setups to produce polymer nanoparticles

SCIENTIFIC PRODUCTION

- Kawthar BOUCHEMAL authored 3 book chapters, and **83** peer-reviewed articles, including 56 where she is the corresponding author and 75 in a leader/co-leader position. The updated list of peer-reviewed articles is available [here](#)
- Selected journals: *Nature Chemistry*, *Bioconjugate Chemistry*, *Journal of Controlled Release*, *Advanced Drug Delivery Reviews*, *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*, *ACS Infectious Diseases*
- Bibliometric data (Oct 23rd, 2023) collected from ISI web of science Thomson Reuters (<http://isiknowledge.com>): **h-index: 31**, the sum of times cited without self-citation: 3516, average citation per item: 46.52

TEACHING ACTIVITIES

- Since 2001: 196 to 256 hours/year of teaching
- Expertise: physical chemistry of colloidal systems; polymer physical chemistry; drug delivery; formulation; nanotechnology; pharmaceutical technology; biopharmacy; process engineering; cosmetics
- Creation and management of several teaching units (Unité d'enseignements) at the Université Paris Saclay and PSL Université Paris
- 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.

TECHNOLOGY TRANSFER ACTIVITIES

- Inventor & co-inventor of 17 patents, among which 4 are granted
- In 2014, she co-founded a biotech company (BKT). The company no longer exists because of 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