



## Dr Mohamed BEJAOU

**Assistant Professor of Pharmacology**  
Faculty of Pharmacy of Monastir,  
University of Monastir (Tunisia)

### Contact

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### Profile

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Academic pharmacologist (PhD in Pharmaceutical Sciences - Tunisia; PhD in Physiology - Spain), Assistant Professor at the Faculty of Pharmacy of Monastir and researcher at the Human Genome and Multifactorial Diseases Laboratory (LR12ES07). Translational research in ischemia-reperfusion injury, organ preservation, preclinical pharmacology, and nanomedicine (liposomes). Author of peer-reviewed publications (h-index: 17, Scopus) and recipient of the FABA award. Supervision: 27 PharmD dissertations and 7 Research Master's dissertations.

### Academic Degrees

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| 2017 | PhD in Pharmaceutical Sciences - Faculty of Pharmacy of Monastir, University of Monastir (Tunisia)                    |
| 2015 | PhD in Physiology - University of Barcelona (Spain)   |
| 2012 | Master's degree in Integrative Physiology - University of Barcelona (Spain)   |
| 2011 | Master's degree in Cardiovascular Disease Biology - Faculty of Pharmacy of Monastir, University of Monastir (Tunisia) |
| 2010 | Doctor of Pharmacy (PharmD) - Faculty of Pharmacy of Monastir, University of Monastir (Tunisia)                       |

### Professional Experience

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- Since January 2017: Assistant Professor of Pharmacology, Faculty of Pharmacy of Monastir, University of Monastir (Tunisia)
- Since 2019: Principal Investigator, Human Genome and Multifactorial Diseases Laboratory (LR12ES07), Faculty of Pharmacy of Monastir, University of Monastir (Tunisia).
- 2015-2018: PhD candidate, Research Unit (UR12ES11) "Anthropology and Applied Molecular Biology for Development and Health", Faculty of Pharmacy of Monastir, University of Monastir (Tunisia).
- 2016: Contract Lecturer in Pharmacology Practicals, Faculty of Pharmacy of Monastir, University of Monastir (Tunisia).
- 2012-2015: PhD candidate, Experimental Pathology Research Unit, Barcelona Biomedical Research Institute, Spanish National Research Council (IIBB-CSIC), Barcelona (Spain).

## Research Areas and Skills

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### Research interests

Ischemia-reperfusion injury; organ preservation solutions and transplantation (liver, kidney); preconditioning (PEG); preclinical pharmacology; nanomedicine (liposomes); chronopharmacology; natural product valorization.

### Technical skills

- Animal experimentation: restraint and administration in mice and rats; in vivo preclinical pharmacokinetics in rodents; rodent toxicity studies according to OECD guidelines; partial hepatic ischemia-reperfusion model; renal ischemia-reperfusion model in rats; partial hepatectomy model in rats; unilateral and bilateral nephrectomy models; ischemic preconditioning (liver and kidney); ischemic postconditioning (liver and kidney); isolated perfused rat liver model.
- Molecular biology techniques: Western blot, ELISA, RT-PCR; biochemical analyses (enzymatic and colorimetric).

## Research Activities

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### Indicators

- h-index: 17 (Scopus).
- Peer-reviewed indexed publications: 30 (Scopus).
- Oral presentations and posters:  $\geq 30$ .
- Editorial and reviewing activities: reviewer for Brain Research, BIOPHA, Cell Physiology and Biochemistry, European Journal of Pharmacology, and Life Sciences.

### Awards and Distinctions

Recipient of the FABA award (Abdelwaheb Ben Ayed Foundation): Smart liposomal system for the detection of circulating microRNAs related to myocardial ischemia - toward early personalized diagnosis in Tunisia.

### Publications

- Selected peer-reviewed publications:
  1. Bejaoui M, Slim C, Peralta C, Ben Abdennebi H. Effect of PERLA(R), a new cold-storage solution, on oxidative stress injury and early graft function in a rat kidney transplantation model. *BMC Nephrology*. 2024;25(1):62. doi:10.1186/s12882-024-03488-z.
  2. Chaabani R, Bejaoui M, Zaouali MA, Ben Abdennebi H. Protective effects of diclofenac on liver graft preservation. *Canadian Journal of Physiology and Pharmacology*. 2023. doi:10.1139/cjpp-2022-0446.
  3. Chaabani R, Bejaoui M, Ben Jeddou I, Zaouali MA, Haouas Z, Belgacem S, Peralta C, Ben Abdennebi H. Effect of diclofenac on ischemia-reperfusion injury in rat liver: a nitric oxide-dependent mechanism. *Inflammation*. 2023;46(4):1221-1235. doi:10.1007/s10753-023-01802-9.
  4. Nasrallah H, Aissa I, Slim C, Boujbiha MA, Zaouali MA, Bejaoui M, et al. Oleuropein offers better protection against renal warm ischemia-reperfusion injury than trimetazidine. *Life Sciences*. 2020;255:117833. doi:10.1016/j.lfs.2020.117833.

5. Hadj Abdallah N, Baulies A, Bouhleb A, Bejaoui M, Zaouali MA, et al. Zinc acexamate mitigates renal warm ischemia-reperfusion injury by preventing mitochondrial damage and endoplasmic reticulum stress pathways. *Biomedicine & Pharmacotherapy*. 2018;105:573-581. doi:10.1016/j.biopha.2018.06.030.
6. Bejaoui M, Pantazi E, Calvo M, Folch-Puy E, Serafin A, Pasut G, et al. Polyethylene glycol preconditioning: an effective strategy to prevent liver ischemia-reperfusion injury. *Oxidative Medicine and Cellular Longevity*. 2016;2016:9096549. doi:10.1155/2016/9096549.
7. Bejaoui M, Pantazi E, De Luca V, Panisello A, Folch-Puy E, et al. Acetazolamide protects steatotic liver grafts against cold ischemia-reperfusion injury. *Journal of Pharmacology and Experimental Therapeutics*. 2015;355(2):191-198. doi:10.1124/jpet.115.225177.
8. Bejaoui M, Pantazi E, Folch-Puy E, Baptista PM, Garcia-Gil A, Adam R, et al. Emerging concepts in liver graft preservation. *World Journal of Gastroenterology*. 2015;21(2):396-407. doi:10.3748/wjg.v21.i2.396.

- **Full list:** [ORCID](#) | [Scopus Author Profile](#)

### Research Projects

- Research project of the Abdelwaheb Ben Ayed Foundation: "Smart liposomal system for the detection of circulating microRNAs related to myocardial ischemia: toward early personalized diagnosis in Tunisia" (Project lead); 2026-2027.
- PHC-Utique research project (CMCU 23G0801): "Development of innovative organ preservation solutions based on pH-sensitive liposomes and nano-emulsions" (Project lead); 2023-2026.
- Research project of the Tunisian Ministry of Higher Education and Scientific Research (18PJEC07-11): "Pharmacological screening of new anti-inflammatory drugs against ischemia-reperfusion injury" (Project lead); 2018-2020.
- Research partnership agreement with ADVANCED LIFE SOLUTIONS (ALS), represented by Ms Silvina Ramella-Virieux: "Preclinical studies in a small-animal model (rat) of a novel renal graft preservation solution in the context of transplantation"; 2018.
- Fondo de Investigacion Sanitaria (FIS PI15/00110): "Polyethylene glycols as a tool for preventing ischemia-reperfusion injury associated with liver transplantation"; 2014-2015.
- Collaboration agreement between CSIC and Institut Georges Lopez (IGL): "Collaboration agreement between IGL and CSIC"; 16 April 2014-31 December 2015.
- Fondo de Investigacion Sanitaria (FIS PI12/00519): "Therapeutic role of carbonic anhydrase IX and II in the prevention of ischemia/reperfusion injury in liver transplantation"; 2012-2015.
- Ministerio de Ciencia e Innovacion (I-COOP0005): "New rinse solution for organ washout in transplantation"; 2011-2012.
- Ministerio de Sanidad y Consumo (PI 081988): "The role of the ubiquitin-proteasome system in fatty liver preservation against ischemia-reperfusion injury"; 2011-2012.

### Patents

Bejaoui M, Kortas M, Jemni S, Hassine S. Red blood cell storage solutions and additives using polyethylene glycol. Patent application (Tunisia), TN2023000275A1, filed on 31 October 2023, published on 2 July 2025. Applicant: Faculty of Pharmacy of Monastir (Tunisia).

## **Supervision (Research Master's dissertations)**

### **7 Research Master's dissertations supervised:**

- CHAABANI Roua - Effect of diclofenac on functional recovery of the ischemic liver. Research Master's (ISBM), Cell Biology and Physiology - defended on 1 December 2018.
- BEN AYED Ahmed - Effect of polyethylene glycol on renal ischemia-reperfusion injury in rats. Research Master's in Drug Development, Pharmacological Development track - defended on 26 July 2019.
- BARHOUMI Chamema - Extraction, characterization and pharmacological evaluation of the antioxidant, analgesic and anti-inflammatory activity of oleuropein. Master's in Drug Development, Pharmacology option - defended on 28 December 2020.
- ZEREI Sarah - Effect of diclofenac on ischemia-reperfusion injury in rat liver. Research Master's in Drug Development, Pharmacology track - defended on 4 January 2021.
- MHIRI Roua - Effects of zinc on liver regeneration in mice. Research Master's in Medical Biology and Health Technology, Immunology track - defended on 26 July 2021.
- KHEMAKHEM Mohamed - Screening of the bioactive activity of different essential oil mixtures. Master's in Drug Development, Analytical Drug Development track - defended on 27 December 2022.
- BOUJEH Sabine - Development of pH-sensitive liposomes encapsulating carboxyfluorescein for targeting ischemic areas. Research Master's (ISBM), Cell Biology and Physiology - 2024/2025 (co-supervision: Dr Mouna SELMI).

## **Teaching Activities**

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### **Teaching (selected courses)**

Courses taught (Pharmacy & Dental Medicine):

- General pharmacology and pharmacokinetics (DCEP1): drug metabolism; tutorials on distribution/metabolism, elimination, and interpretation of pharmacokinetic data.
- Molecular pharmacology (DCEP1): receptor pharmacology; pharmacometrics; noradrenergic and histaminergic/NO signaling; eicosanoids.
- Pharmacotherapy (DCEP1-DCEP2): steroidal and non-steroidal anti-inflammatory drugs; antihistamines and drugs used in gout; antivirals; gastrointestinal therapeutics (anti-ulcer drugs, antiemetics/antispasmodics, laxatives/antidiarrheals, inflammatory bowel disease).
- Endocrine and metabolic therapeutics (DCEP2 - CC4): drugs for diabetes, thyroid disorders, sex hormones, and lipid-lowering therapy; tutorials on oral antidiabetic agents and lipid-lowering drugs.
- Coordinated practical session (DCEP3): in vivo study of analgesic activity (paracetamol + caffeine).
- Dental Medicine: ADME and interpretation of pharmacokinetic data (including 4 hours taught in English).
- Master's level: experimental design using animal models; practical sessions on experimental models; concepts and advances in chronopharmacology.

CES: drug metabolism and transport.

### **Supervision (PharmD)**

PharmD dissertations supervised: 27

Selected PharmD dissertations (n=5):

- Ghazel, Salma - Effect of SG97 on vancomycin-induced nephrotoxicity in rats - defended on 12 July 2025 (Supervisor) - proposed for a presidential award.
- Akrouit, Lina - Role of digital technologies in personalized medicine - defended on 19 November 2025 (Supervisor).
- Tiouajni, Roua - Nephrotoxicity associated with the use of hair-straightening products: clinical case report and preclinical study - defended on 25 October 2025 (Co-supervisor).
- Kaddour, Aziz - Development of a mobile application for medicine identification - defended on 12 February 2024 (Supervisor).
- Hassine, Sirine - Study of the effects of polyethylene glycol on the storage quality of red blood cell concentrates: a pilot study - defended on 10 March 2023 (Supervisor) - proposed for a presidential award.

### **Workshops and Training**

Delivered around 15 workshops for students (methodology, research, pharmacology, etc.).

Participated in the organization of workshops and scientific congresses (member of organizing committees).

### **Coordination**

Since 2018/2019: Coordination of pharmacology practical sessions for DCEP1 students.

Since academic year 2024/2025: Coordination of coordinated practical sessions for DCEP3 students (PHI option).

### **University Service and Committees**

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- Since 2025: FPhM focal point for the Student Entrepreneurship Hub of the University of Monastir (PEEMo) - mentoring student entrepreneurs, supporting the structuring of project ideas at the pre-incubation stage, and facilitating access to relevant support mechanisms.
- 2023-2025: Faculty Advisor, Enactus FPhM - mentoring and coaching student entrepreneurs (project structuring, pitching, competition preparation); Early Stage Challenge Champion, Enactus Tunisia National Exposition 2025 (Faculty of Pharmacy of Monastir team).
- 2025: Member of the organizing committee of the 4th Research Forum (FPhM) - "AI and Scientific Research: applications, perspectives and challenges".
- 2025: Member of the organizing committee and scientific committee of the 50th anniversary and the 10th Congress of FPhM.
- 2023: Member of the organizing committee of the 3rd Research Forum (FPhM) - "Translational research: a bridge between the laboratory and the clinic".
- Since 2021: Member, Ethics and Research Committee (CER-SVS) - Higher Institute of Biotechnology of Monastir, University of Monastir (Tunisia).
- 2021: Member of the organizing committee of the 2nd Research Forum (FPhM) - "The student researcher: a driving force in biomedical research - how to get involved and what perspectives?"
- Since 2019: Member, Research Committee (FPhM), University of Monastir (Tunisia).
- 2019-2023: Member, Procurement Committee, Faculty of Pharmacy of Monastir.
- 2019: Member of the organizing committee of the scientific day "Pharmacogenetics: sharing experiences" (Regency Hotel, Monastir).
- 2018-2019: Jury member for end-of-internship examinations for pharmacy interns.
- Since 2018: Contribution to the organization of the 1st Research Forum (FPhM) - "Promoting pharmaceutical research: who does what? Together to do better".

## Additional Training

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- Additional training in pharmacokinetic and population pharmacokinetic modeling, Faculty of Pharmacy of Monastir (April 2025).
- Training of trainers - European project proposal writing, University of Monastir (9 October 2022-7 March 2023).
- Fundamentals of Global Health Research (online), University of Washington (June 2022).
- Leadership and Management in Health (online), University of Washington (December 2021).
- Fundamentals of Implementation Science (online), University of Washington (December 2021).
- Implementation Research (MOOC), Institut Pasteur de Tunis and WHO/TDR (May 2021).
- European project proposal writing (workshop), Biotechpole Sidi Thabet (May 2018).
- Employability Skills for Innovation (workshop), IIS (October 2018).
- Pedagogical training, University of Monastir (May 2017; May 2018).
- Training of trainers - Information technologies / presentation of MOOCs, AUF (December 2017).

## Languages

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Language	Proficiency
Arabic	Native language
English	Fluent (publications; teaching in English)
Spanish	Fluent (PhD and scientific activity in Spain)
French	Fluent (teaching and administration)