

Mohamed Fathi Abdallah, Ph.D.

Postdoc Researcher F.R.S-FNRS mandate

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<https://www.mfathiabdallah.com/>**Current Position**

Post-Doctoral F.R.S-FNRS Mandate [10/2023–Now] Human Biology and Toxicology, Université de Mons, Belgium.

Memberships & Other Scientific Activities

Member of the following Scientific Societies

- 2023 - Board member of the European Society of Toxicology *In Vitro* (ESTIV). Early Career Section.
- 2022 - Member of the Society for Mycotoxin Research.
- 2021 - Member of the Belgian society of Toxicology.
- 2020 - Member of the International Society of Mycotoxicology.

Organizer & Host

- 2024 - Member of the organizing team of The 22nd International ESTIV Congress, Prague, Czech Republic.
- 2017 - Member of the organizing team of The 1st MycoKey International Conference, Ghent, Belgium.

Guest Editor

- 2023 - Toxins Journal [Special Issue "Current Research on Mycotoxins in Food and Feed: From Detection and Unravelling of Toxicity to Control"]. Submission deadline 31 December 2023.
- 2022 - Frontiers in Veterinary Science Journal [Special Issue "Environmental Contaminants and Animal Health: Analysis, Toxicity, and Mitigation"]. Submission deadline 30 August 2022.

Reviewer

- Journal of Hazardous Materials; Toxicon; Toxins; Regulatory Toxicology and Pharmacology; World Mycotoxins Journal; Environmental International; Food Chemistry.

Previous Positions

- Post-Doctoral Mandate - [10/2020–09/2023] Microbial Toxins, Virulence and Toxicity Research Group Department of Food Technology, Safety & Health, Faculty of Bioscience Engineering, Ghent University, Belgium.
- Researcher - [04/2020–09/2020] Food Safety Department, Teagasc Food Research Centre, Ashtown, Dublin, Ireland.

Education (International mobility in 6 countries)

- PhD - [2016–2020] Pharmaceutical Sciences (Bioanalysis), Centre of Excellence in Mycotoxicology and Public Health, Ghent University, Belgium.
- MSc - [2013–2016] Pharmaceutical Sciences (MSc, Toxicology), Hacettepe University, Turkey.
- TOMER diploma - [2012–2013] Diploma of Turkish Language Proficiency, Ankara University, Turkey.
- BVSc - [2007–2011] Veterinary Medical Sciences, Assiut University, Egypt.

Fellowships, Travel Grants, and AwardsFellowships

- 09/2023 - Postdoctoral Fellowship-F.R.S-FNRS mandate, [University of Mons, Belgium]. [Research grant number 40010538 for three-years 10/2023- 09/2026].
- 06/2020 - Postdoctoral Mandate-Special Research Fund (BOF) [Ghent University, Belgium]. [Research grant number BOF20/PDO/032 for three-years 10/2020- 09/2023].
- 09/2020 - Research Leaders 2025-A Fellowship Programme for developing the Next Generation of Agri-Food Research Leaders, Austria/Ireland [granted, but untaken/excused].
- 08/2016 - PhD Research Position for four years [Ghent University, Belgium].
- 09/2015 - Erasmus+ Student Mobility for Studies, Center for Analytical Chemistry, Universität für Bodenkultur Wien [Tulln, Austria].
- 09/2014 - Erasmus+ Student Mobility for Placement, *IfADo* Institute [Dortmund, Germany].
- 09/2012 - Turkish Government Scholarship for Master's degree [Ankara, Turkey].

Travel Grants

- 2023 - National Demonstration Base for Talent Introduction Grant (17,000 RMB) to visit the Institute of Food Science and Technology, Chinese Academy of Agricultural Sciences, Beijing, People's Republic of China.
- 2023 - Conference Travel Award (€500) Faculty of Bioscience Engineering-UGent to attend the 44th Mycotoxin-Workshop, Celle (at Hannover)-Germany.

- 2022 - Workshop Travel Award from the Research Foundation - Flanders (FWO) to attend the Applied *In Vitro* Toxicology Course, Luxembourg.
- 2022 - Conference Travel Award (€500) Faculty of Bioscience Engineering-UGent to attend the XVIth International Congress of Toxicology (ICT 2022), Maastricht-the Netherlands.
- 2018 - Conference Travel Award (€1,000) Faculty of Pharmaceutical Sciences-UGent to attend the 2nd International MycoKey Conference, Wuhan-China.
- 2017 - Conference Travel Award (€750) Faculty of Pharmaceutical Sciences-UGent to attend the 3rd International Mass Spectrometry School, Dubrovnik-Croatia.

Scientific Awards

- 2022 - Best Oral Presentation from Toxins journal (Fungi & Mycotoxins in Climate Change Symposium, Croatia).
- 2019 - Young Scientist Winner [Invited speaker★] (Eurachem Workshop, Estonia).
- 2018 - Best Poster Award from Toxins journal (2nd African Symposium on Mycotoxicology, Kenya).

Funded Projects

- 2023 - Research project (2023-2026):
Genotoxicity of microplastics project (1101990,66 TL) funded by Istanbul Universiteit, Turkey.
[role:- international collaborator].
- 2023 - Postdoc Mandate Project (2023-2026):
AF-CYSTIN-TOX project, funded by the Fund for Scientific Research (F.R.S.–FNRS), Belgium.
[role:- main researcher and budget holder★].
- 2021 - Research project (2021-2022):
AF-CYS Milk project (€11,000) funded by VLIRUOS Global Minds -UGENT Grant.
[role:- main researcher and budget holder★].
- 2021 - Research project (2021-2023).
CYANTIR project. Funded by FPS Health, Food Chain Safety and Environment.
[role:- collaborator and member of UGENT team].
- 2021 - Horizon 2020 research(2021-2025). Grant agreement ID: 965173
IMPTOX project (€6 104 823).
[role:- collaborator and member of UGENT team].
- 2020 - Postdoc Mandate Project (2020-2023):
MICRO-TOX project, funded by The Special Research Fund (BOF), Ghent University.
[role:- main researcher and budget holder★].
- 2018 - Research project (2018-2019)
MYCOSUGAR project funded by VLIRUOS Global Minds-UGENT (€11,000).
[role:- main researcher★].
- 2016 - Horizon 2020 research (2016-2020). Grant agreement ID: 678781
MYCOKEY project (€4 953 160)
[role:- PhD researcher at UGENT].

Scientific Output

Google Scholar link <https://scholar.google.com/citations?user=05FfukgAAAAJ&hl=en>

Selected Peer Reviewed Research Articles

- 15) K Aghebatbinyeganeh, M Movassaghghazani, **MF Abdallah** (2024). Seasonal variation and risk assessment of exposure to aflatoxin M1 in milk, yoghurt, and cheese samples from Ilam and Lorestan Provinces of Iran. *Journal of Food Composition and Analysis* 128, 106083
- 14) X Chen, **MF Abdallah**, C Grootaert, F Van Nieuwerburgh, A Rajkovic (2023). Elucidating the combined toxicity of aflatoxin B1 and fumonisin B1 on HepG2 cells based on respirometry and transcriptome analyses. *Environment International* 175, 107945.
- 13) Y Tian, **MF Abdallah**, M De Boevre, K Audenaert, C Wang, S De Saeger, A Wu (2023). Deciphering *Alternaria* metabolic responses in microbial confrontation via an integrated mass spectrometric targeted and non-targeted strategy. *Food Chemistry*, 134694. doi: 10.1016/j.foodchem.2022.134694.
- 12) H Zhang, Y Li, **MF Abdallah**, H Tan, J Li, S Liu, R Zhang, F Sun, Y Li, S Yang (2023). Novel one-point calibration strategy for high-throughput quantitation of microcystins in freshwater using LC-MS/MS. *Science of The Total Environment*, 159345. doi: 10.1016/j.scitotenv.2022.159345.
- 11) F Sun, P Wu, **MF Abdallah**, H Tan, Y Li, S Yang (2023). One sample multi-point calibration curve as a novel approach for quantitative LC-MS analysis: the quantitation of six aflatoxins in milk and oat-based milk as an example. *Food Chemistry*, 135593. doi: 10.1016/j.foodchem.2023.135593.
- 10) X Chen, **MF Abdallah**, C Grootaert, A Rajkovic (2022). Bioenergetic status of the intestinal and hepatic cells after short term exposure to fumonisin B1 and aflatoxin B1. *International Journal of Molecular Sciences*, 23 (13), 6945.
- 9) I Vanhoutte, C De Tender, K Demeyere, **MF Abdallah**, et al., (2021). Bacterial Enrichment Cultures Biotransform the Mycotoxin Deoxynivalenol into a Novel Metabolite Toxic to Plant and Porcine Cells. *Toxins*, 13 (8), 552.

- 8) L De Colli, K De Ruyck, **MF Abdallah**, J Finnan, E Mullins, S Kildea, J Spink, C Elliott, M Danaher (2021). Natural co-occurrence of multiple mycotoxins in unprocessed oats grown in Ireland with various production systems. *Toxins*, 13 (3), 188.
- 7) **MF Abdallah***, K Audenaert, SD Saeger, J Houbraken (2020). Revisiting an *Aspergillus flavus* Strain Isolated from an Egyptian Sugarcane Field in 1930. *Microorganisms*, 8 (11), 1633.
- 6) **MF Abdallah***, K Audenaert, L Lust, et al., (2020). Risk characterization and quantification of mycotoxins and their producing fungi in sugarcane juice: A neglected problem in a widely-consumed traditional beverage. *Food Control*, 108, 106811.
- 5) **MF Abdallah***, G Girgin, T Baydar (2019). Mycotoxin detection in maize, commercial feed, and raw dairy milk samples from Assiut City, Egypt. *Veterinary Sciences*, 6 (2), 57.
- 3) **MF Abdallah***, R Krska, M Sulyok (2018). Occurrence of Ochratoxins, Fumonisin B2, Aflatoxins (B1 and B2), and Other Secondary Fungal Metabolites in Dried Date Palm Fruits from Egypt: A Mini-Survey. *Journal of Food Science*, 83 (2), 559-564.
- 2) **MF Abdallah**, G Girgin, T Baydar, R Krska, M Sulyok (2017). Occurrence of multiple mycotoxins and other fungal metabolites in animal feed and maize samples from Egypt using LC-MS/MS. *Journal of the Science of Food and Agriculture*, 97 (13), 4419-4428.
- 1) **MF Abdallah**, R Krska, M Sulyok (2016). Mycotoxin contamination in sugarcane grass and juice: first report on detection of multiple mycotoxins and exposure assessment for aflatoxins B1 and G1 in humans. *Toxins*, 8 (11), 343.

Selected Review Articles

- 3) **MF Abdallah***, M Gado, D Abdelsadek, et al., (2024). Mycotoxin contamination in the Arab world: Highlighting the main knowledge gaps and the current legislation. *Mycotoxin Research* 40 (1), 19-44.
- 2) X Chen, **MF Abdallah**, X Chen, A Rajkovic (2023). Current Knowledge of Individual and Combined Toxicities of Aflatoxin B1 and Fumonisin B1 In Vitro. *Toxins* 15 (11), 653.
- 1) **MF Abdallah***, WHR Van Hassel, M Andjelkovic, A Wilmotte, A Rajkovic (2021). Cyanotoxins and Food Contamination in Developing Countries: Review of Their Types, Toxicity, Analysis, Occurrence and Mitigation Strategies. *Toxins*, 13 (11), 786.

Editorial Letters

- 2) **MF Abdallah***, W Xu and A Abdeen (2022) Editorial: Environmental contaminants and animal health: Analysis, toxicity, and mitigation. *Front. Vet. Sci.* 9:1102836.
- 1) **MF Abdallah***, M De Boevre, K Audenaert, G Haesaert, S De Saeger (2018). Highlight report: Mycotoxins as food contaminants in Africa – challenges and perspectives. *Archives of Toxicology*, 92 (6), 2151-2152.

References

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