

Curriculum Vitae of Dr. Mahmoud El-Sebai



**University of
Mansoura,
Egypt**



**University of Bonn,
Germany**



**University of Oulu,
Finland**



**Université de
Nice, France**

Personal data

Name **Mahmoud Fahmi Elsebai**
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Qualifications

October 2014 onwards	Lecturer, Faculty of Pharmacy, Mansoura University, Egypt.
October 2012 - April 2014	Post-Doc Fellowship, Dep. of Biology and Dep. of Chemistry, University of Oulu, Finland.
April 2014-September 2014	Post-Doc Fellowship, Equipe Molécules Bioactives (Produits Naturels Marins), Université de Nice-Sophia Antipolis, France.
October 2011-October 2012	Lecturer, Faculty of Pharmacy, Mansoura University, Egypt.
1/08/2007-21/10/2011	PhD degree, with a Final Grade: <i>very good</i> , Bonn university, Germany.
1999-2003	Master degree, Faculty of Pharmacy, Mansoura University, Egypt.
1995 – 1997	Military Service.
1989 -1995	B.Sc. of pharmaceutical sciences, Final Grade: <i>very good-Honour</i> , Faculty of Pharmacy, Mansoura University, Egypt.

Publications

- 1.Elsebai M. F., et al., Journal of Virology (2016) "Pan-genotypic hepatitis C virus inhibition by natural products derived from the wild Egyptian artichoke", 90, 4, 1918-1930.
- 2.Elsebai M. F., et al., Food & Function (2016) "The Wild Egyptian Artichoke as a Promising Functional Food for the Treatment of Hepatitis C Virus as Revealed via UPLC-MS and Clinical Trial", 7, 7, 3006-3016.
- 3.Elsebai M. F., et al., Molecules (2016) "Unusual phenalenone derivatives from the marine-derived fungus *Coniothyrium cereale*", 21, 2, 1-13.
- 4.Elsebai M. F., and Ghabbour H. A. Tetrahedron Letters (2016) "Isocoumarin Derivatives from the Marine-Derived Fungus *Phoma* sp. 135", 57, 354-356.
- 5.Elsebai M. F. (co-author) et al., Industrial Crops and Products (2016) "Chemical composition and in vitro antimicrobial, insecticidal and antioxidant activities of the essential oils of *Mentha pulegium* L. and *Mentha rotundifolia* (L.) Huds growing in Algeria", 88, 96-105.
- 6.Elsebai M. F., et al., Natural Product Communications (2015), "New bicyclo-spartinols from the marine-derived fungus *Phaeosphaeria spartinae*", 10(4), 637-639.
- 7.Elsebai M. F. and Itidal Mohamed, Natural Product Research (2015) "New pregnane glycoside derivative from *Caralluma retrospiciens* (Ehrenb)", 29(15): 1426-1431.
- 8.**Patent application:** (2015), Egyptian patent office, EG2016000014, titled "Potent and Broad Spectrum Compounds against all genotypes of Hepatitis C Virus (HCV)".
- 9.**Patent application:** (2014), European Patent Application, WO2014008901(A2), titled: "The use of Artichoke for eradication of Hepatitis C virus (HCV)".
- 10.Elsebai M. F., et al., Natural Product Reports (2014) "Fungal phenalenones: chemistry, biology, biosynthesis and phylogeny", 31, 628-645.
- 11.**Book chapter:** LEGRAVE Nathalie, Mahmoud F. Elsebai, MEHIRI Mohamed, AMADE Philippe, "Marine Polyacetylenes: Distribution, Biological Properties, and Synthesis" of the book "Studies in Natural Products Chemistry, Atta-ur-Rahman, FRS", (2015), Copyright © 2015 Elsevier, volume 45, pages 251-292.

12. **Book chapter:** Mahmoud F. Elsebai, Mysore V. Tejesvi, Anna Maria Pirttilä, "Endophytes as a novel source of bioactive new structures" of the book "*Advances in Endophytic Research*, V.C. Verma and A.C. Gange (eds.)", (**2014**), DOI 10.1007/978-81-322-1575-2_10, ©Springer India 2014, pages 191-202.
13. Elsebai M. F., et al., *Steroids* (**2013**) "Caught between triterpene- and steroid-metabolism: 4 α -carboxylic pregnane-derivative from the marine alga-derived fungus *Phaeosphaeria spartinae*", 78(9), 880-883.
14. Elsebai M. F., et al., *European Journal of Organic Chemistry* (**2012**), "Polyketide skeletons from the marine alga-derived fungus *Coniothyrium cereale*", 6197–6203.
15. Elsebai M. F., et al., *Medicinal Chemistry Letters* (**2011c**), "Identification of a Potent and Selective Cannabinoid CB1 Receptor Antagonist from *Auxarthron reticulatum*", 2, 866-869.
16. Elsebai M. F., et al., *Journal of Natural Products* (**2011b**), "HLE-inhibitory alkaloids with a polyketide skeleton from the marine-derived fungus *Coniothyrium cereale*", 74, 10, 2282-2285.
17. Elsebai M. F., et al., *Organic & Biomolecular Chemistry* (**2011a**), "Antimicrobial phenalenone derivatives from the marine-derived fungus *Coniothyrium cereale*", 9, 3, 802-808.
18. Elsebai M. F., et al., *Natural Product Communications* (**2010**), "Spartinoxide, a new enantiomer of A82775C with inhibitory activity toward HLE from the marine-derived Fungus *Phaeosphaeria spartinae*", 5, 7, 1071-1076.
19. Elsebai M. F., et al., *Planta Medica* (**2010**), "Novel phenalenone derivatives", 76, 12, SL_58.
20. Elsebai M. F., et al., *Natural Product Communications* (**2009**), "New polyketides from the marine-derived fungus *Phaeosphaeria spartinae*", 4, 11, 1463-1468.
21. Elsebai M. F., et al., *Planta Medica* (**2009**), "New polyketides from the algicolous fungus *Phaeosphaeria spartinae*", 75, 9, PA83.
22. Elsebai M. F., et al., *Planta Medica* (**2008**), "Isolation and structure elucidation of new polyketides from the marine-derived fungus *Phaeosphaeria spartinae*", 74, 09, PB47.

- 23.Elsebai M. F., et al., *Mans. J. Pharm. Sciences* (2002), "Phytochemical and Biological investigation of *Leptadenia Pyrotechnica* decne growing in Egypt", 18, 2, 122-138.
- 24.Elsebai M. F. and Atanas G. Atanasov, submitted to ***Critical Reviews in Biotechnology*** (2016) "Cynaropicrin: a comprehensive research review and therapeutic potential outlook".
- 25.Elsebai M. F., "Elsebai effect; a new rule in the Nuclear Magnetic Resonance of compounds" (manuscript).
- 26.Elsebai M. F., et al., "Sesquiterpene Lactones from the Wild Egyptian Artichoke", submitted to *Planta Medica*.
- 27.Elsebai M. F., (co-author) et al., submitted to (submitted to *Journal of Natural Products*) (2016) "Reactive Oxygen Species (ROS) and Elastase Inhibitors: An Overview of Natural Antiinflammatory Discoveries during Recent Years".

Scientific advisory board member and Reviewer of Journals and Publishers

"*Journal of Natural Products*", "*Marine Drugs*", "*Journal of Ethnopharmacology*", "*Phytochemistry Reviews*", "Bioorganic & Medicinal Chemistry Letters", "*Natural Product Research*", "Pharmaceutics (MDPI)", "*Polish Journal of Food and Nutrition Sciences*", "*Mediterranean Journal of Biosciences*", "*Journal of Marine Natural Products*", "*Journal of Shipping and Ocean Engineering*", "*Scientific & Academic Publishing (SAP)*", "Cardiovascular & Hematological Agents in Medicinal Chemistry", "*Journal of Intercultural Ethnopharmacology*", "ELSEVIER SCIENCE PUBLISHERS – AMSTERDAM, PROF. ATTA-UR-RAHMAN, FRS".

Analysis of Theses and Dissertations

2015, 13-August, Master thesis of Mr. *Rogers Mwakalukwa*, Pharmacognosy Department, Muhimbili University of Health and Allied Sciences, Tanzania. Title of thesis: MEDICINAL USE, PHYTOCHEMICAL AND NUTRITIONAL PROPERTIES OF *CROTALARIA LABURNOIDES* KLOTZSCH.

Scientific missions

- 2016, 27 March-4 April, External Examiner at Muhimbili University of Health and Allied Sciences, School of Pharmacy, Department of Pharmacognosy, **Tanzania**.
- 2015, 9-17-August, External Examiner at Muhimbili University of Health and Allied Sciences, School of Pharmacy, Department of Pharmacognosy, **Tanzania**.

- 2015, 8-14-March, External Examiner at Muhimbili University of Health and Allied Sciences, School of Pharmacy, Department of Pharmacognosy, **Tanzania**.

Honors & Awards and Scholarships

- 2015, “**Mansoura University Award** جائزة الجامعة التشجيعية” for the year 2015, Mansoura, **Egypt**.
- 2014, complete grant from the "European Union" for the "EU COST FA1103 Training School 2014": "Isolation and characterization of fungal root endophytes", Grossbeeren-Berlin, **Germany**.
- 2013, Post-doctoral fellowship award from the French Government, at the Department of marine natural products, Université de Nice-Sophia Antipolis, **France**.
- 2012, Post-doctoral fellowship award from the Egyptian Government, at the Departments of Chemistry and Biology, University of Oulu, **Finland**.
- 2011 **Sweden**, Travel award of the "Phytochemical Society of Europe (PSE)" for the best oral presentation.

Academic work

Time	Work
1995 – 2003	Demonstrator, Faculty of Pharmacy, Mansoura University, Egypt.
2003 – 2007	Assistant lecturer, Faculty of Pharmacy, Mansoura University, Egypt.
April 2009 - October 2009	Wissenschaftlicher Hilfskraft (assistant scientist), university of Bonn, Faculty of Pharmacy, Germany.
26 December 2011 onwards	Academic Lecturer, Faculty of Pharmacy, Mansoura University, Egypt.

Membership in Professional Associations

- Phytochemical Society of Europe (PSE), membership number: PSE-1512.
- Member of the VAAM (Association for General and Applied Microbiology= Vereinigung für Allgemeine und Angewandte Mikrobiologie (VAAM), membership number: 4935.

Conferences / symposia / workshops

Venue	Title	Time
Egypt, Mansoura University, Faculty of Pharmacy	3 rd Conference of Pharmacognosy Dept. on Green Chemistry (oral presentation, Coordinator)	May, 10, 2016
Egypt,	“1st PharmaSchool International Conference	February,

Mansoura University, Faculty of Pharmacy	of Pharmaceutical Sciences" (oral presentation).	15-16, 2016
Bulgaria , Plovdiv	"2nd International Conference on Natural Products Utilization: From Plants to Pharmacy Shelf" (oral presentation).	October, 14-17, 2015
Turkey , Antalya	MESMAP-2 "The Second Mediterranean Symposium on Medicinal and Aromatic Plants" (oral presentation).	April, 22-25, 2015
Egypt, Mansoura, Faculty of Pharmacy	4 th Scientific Conference for Pharmacy Students (coordinator)	April, 6-7, 2015
Germany , Grossbeeren	EU COST FA1103 workshop 2014: "Isolation and characterization of fungal root endophytes"	September 8-12, 2014
Finland , Oulu	Seminar "Bioeconomy concept today and tomorrow", university of Oulu	April 8, 2014
Germany , Braunschweig,	Workshop "Screening for Antiviral Compounds", Department of Chemical Biology at Helmholtz Centre for Infection Research (Plenary Talker)	October 14-16, 2013
Finland , Oulu	WARES conference of Water Research	August 15, 2013
Finland , Oulu, Department of Biochemistry	WATERS Seminar on UPC ² (Ultra Performance Convergence Chromatography)	December 12, 2012
Finland , Oulu, Department of Biology	16 th KAAMOS Symposium (oral presentation), https://wiki oulu.fi/display/Kaamos/Timetable+and+Abstracts+2012	December 11-12, 2012
Egypt, Mansoura, Mansoura University	International Workshop for "Computational Molecular Modelling and Drug Discovery"	September 2-3, 2012
Egypt, Hurghada - Mansoura	The 3 rd International Conference of Biological and Environmental Sciences, ICBES (oral presentation)	March 20-24, 2012
Germany , Bonn	The 2011 annual VAAM meeting "Biology of Bacteria Producing Natural Compounds"	September 28-30, 2011
Germany , Bonn	International Symposium, NRW International Graduate Research School BIOTECH-PHARMA	September 12-13, 2011
Sweden , Strömstad	7 th European Conference on Marine Natural Products (Best Oral Presentation and Travel Grant), http://www.fkog.uu.se/7ecmnp/	August 14-18, 2011
Italy , Acquafredda di Maratea (near Naples)	ESF-COST High-Level Research Conference on Natural Products Chemistry, Biology and Medicine III (oral presentation) http://www.esf.org/index.php?id=6867	September 5-10, 2010
Germany ,	58 th International Congress and Annual Meeting of the	August 29-

Berlin	Society for Medicinal Plant and Natural Product Research (oral presentation)	September 2, 2010
Poland , Lublin	7 th International Symposium on Chromatography of Natural Products joined with 6 th International Symposium of International Society for the Development of Natural Products (oral presentation)	June 13-17, 2010
Switzerland , Geneva	57 th International Congress and Annual Meeting of the Society For Medicinal Plant and Natural Product Research	August 16-20, 2009
Portugal , Porto	6 th European Conference on Marine Natural Products, http://www.cgmdesign.net/6ECMNP/conference.htm	July 19-23, 2009
Germany , Bonn	Jahrestagung 2009, DPhG	October 8-11, 2008
Greece , Athens	7 th Joint Meeting of AFERP, ASP, GA, PSE & SIF on natural products with pharmaceutical, nutraceutical, cosmetic and agrochemical interest	August 3 – 8, 2008
Italy , Trieste	“RNA structure and function” by ICGEB and co-sponsored by CEI (Central European Initiative)	April 6 – 11, 2008
Egypt, Alexandria	Advanced biotechnological methods in organic wastes treatment	May 15 – 20, 2002

Research experience

Chemistry and biology of natural products including: all methods of extraction of natural products; chromatographic isolation and identification of the natural products using different types of chromatography such as VLC, HPLC, TLC, preparative HPLC, gel filtration chromatography, electrophoresis chromatography; structural elucidation of the isolated pure secondary metabolites using 1D and 2D NMR, UV, IR, optical rotation, LCMS, HRMS, elemental analysis, GCMS, X-ray crystallography and circular dichroism (CD); stereochemistry of natural products; biosynthesis of natural products, feeding experiments using ¹³C labeled acetate units; semisynthesis; biological assays such as antimicrobial, antioxidant, cytotoxicity, assays towards protease enzymes, assays towards cannabinoid receptors; PCR, and gel electrophoresis; biotransformation; biocatalysis; plant tissue culture; metabolomics.

The teaching stuffs for the undergraduate, diploma, master and doctoral students including the following courses: spectroscopic methods for the characterization of organic and natural compounds (as NMR, HRMS, UV, IR, optical rotation,...etc), herbal medicine including Chinese herbal medicine, Egyptian herbal medicine; Alternative and

complementary medicine such as detoxification therapy, thermotherapy, Ayurvedic medicine, yoga, sauna, food supplements....etc; pharmacognosy courses of herbs, flowers, barks, leaves, woods, galls, subterranean drugs, seeds and fruits; contamination of herbal products by common contaminants such as heavy metals contamination, microbial contaminants, pesticides, chemical toxins, and chemical solvents; pharmaceutical microbiology; pharmaceutical biotechnology; chromatography; instrumental analysis; quality control of herbal products; phytochemistry including alkaloids, flavonoids, glycosides, carbohydrates, vitamins, hormones, volatile oils, etc; applied pharmacognosy; stereochemistry of natural products; biosynthesis of natural products, feeding experiments using ^{13}C labeled acetate units; semisynthesis; industrial microbiology; biotransformation; biocatalysis; plant tissue culture....

Training courses

- 1- Credit hours system (University of Mansoura).
- 2- Communication Skills (University of Mansoura).
- 3- International Publishing of Research (University of Mansoura).
- 4- Legal and Financial Aspects in University Environment (University of Mansoura).
- 5- Code of Ethics (University of Mansoura).
- 6- Use of Technology in Teaching (University of Mansoura).
- 7- Competing for research funding (University of Mansoura).
- 8- Exams and students` evaluation system (University of Mansoura).
- 9- Managing research team (University of Mansoura).