CURRICULUM VITAE

Prof. Dr. Tarek A. A. Moussa

PERSONAL:

Born: January 29, 1967, at Cairo, Egypt.

ADDRESSES:

Home address: Villa 209 Al-Fardous Compound, 6th October City, Giza, Egypt.

Work address: Department of Botany and Microbiology, Faculty of Science, Cairo University, 12613, Giza, Egypt

Researcher ID: http://www.researcherid.com/rid/F-4349-2010

ORCID: http://orcid.org/0000-0002-5612-4366

E-mail: tarekmoussa@yahoo.com, tarekmoussa@cu.edu.eg, tmoussa@sci.cu.edu.eg

Webpage: http://cairo.academia.edu/TarekMoussa,

http://www.researchgate.net/profile/Tarek_Moussa http://livedna.org/20.2113

http://www.linkedin.com/pub/prof-tarek-moussa/29/221/5b4

https://scholar.google.com/citations?user=c-ZvyNEAAAAJ&hl=en

Facebook: http://ar-ar.facebook.com/people/Tarek-Moussa/729298807 Phone: Mobile EGYPT: (+20) 100 153 173 8 **Office:** (+202) 35676654

EDUCATIONAL BACKGROUND:

1989 B.Sc. **:** Botany, Faculty of Science, Cairo University, Egypt.

1994 M.Sc. **:** Microbiology, Faculty of Science, Cairo University, Egypt.

Thesis title ***"Preliminary studies on the production of pathogenicity enzymes by some sugarbeet pathogenic fungi under the stresses of salinity and herbicidal treatment."***

The thesis was evaluated by **Prof. Dr. H. Hindorf,** University of Bonn, **Germany (h.hindorf@uni-bonn.de).**

2000 Ph.D. **:** Microbiology, Faculty of Science, Cairo University, Egypt.

Thesis title ***"Towards the biological control of some root-rot fungal pathogens of sugarbeet in Egypt."***

The thesis was Evaluated by **Prof. Dr. A. Hüttermann,** University of Göttingen, **Germany (ahuette@gwdg.de); Prof. Dr. K. Lindstrom,** University of Helsinki, **Finland (Kristina.lindstrom@helsinki.fi).**

PRESENT OCCUPATIONS:

2010 till now **: Professor of Microbiology,** Department of Botany and Microbiology, Faculty of Science, Cairo University, Egypt.

PREVIOUS OCCUPATIONS:

1989-1994 **: Demonstrator**, Department of Botany and Microbiology, Faculty of Science, Cairo University, Egypt.

1994-2000 **: Assistant Lecturer**, Department of Botany and Microbiology, Faculty of Science, Cairo University, Egypt.

2000-2005 **: Assistant Professor,** Department of Botany and Microbiology, Faculty of Science, Cairo University, Egypt.

2006-2009

: Supervisor of the training courses on cultivation of mushroom for non-specialist peoples, Department of Botany and Microbiology, Faculty of Science, Cairo University, Egypt.

2000-2010

: Supervisor of Computer and Internet Lab., Department of Botany and Microbiology, Faculty of Science, Cairo University, Egypt.

2005-2010

: Associate Professor of Microbiology, Department of Botany and Microbiology, Faculty of Science, Cairo University, Egypt.

2009-2010

: Associate professor of Microbiology, Department of Botany, Faculty of Science, Sirte University, Sirte, Libya.

2010-2014

: Professor of Microbiology, Biological Sciences Department, Faculty of Science, King Abdulaziz University, Jeddah, Saudi Arabia.

2014-2019

: General coordinator of Biology for preparatory year, University of Jeddah, Jeddah, Saudi Arabia.

2014-2019

: Consultant at Deanship for Scientific Research, University of Jeddah, Jeddah, Saudi Arabia.

2014-2020 **: Professor of Microbiology,** Biological Sciences Department, Faculty of Science, University of Jeddah, Jeddah, Saudi Arabia.

MEMBERSHIP OF SCIENTIFIC SOCIETIES AND ORGANIZATIONS:

1. Egyptian Botanical Society, Egypt.
2. Egyptian Microbiological Society, Egypt.
3. Egyptian Phytopathological Society, Egypt.
4. Union of Arab Biologists, Egypt.

5. The Science Advisory Board, USA (http://www.scienceboard.net).
6. The International Society for Human & Animal Mycology (ISHAM)

MEMBERSHIP OF EDITORIAL BOARD OF SCIENTIFIC JOURNALS:

1. Asian Journal of Plant Sciences (http://www.scialert.net).
2. Egyptian Journal of Botany.
3. American Journal of Food Technology **(**http://www.scialert.net**)**.
4. Biotechnology **(**http://www.scialert.net**)**.
5. Journal of Applied Sciences **(**http://www.scialert.net**)**.
6. Asian Journal of Plant Pathology **(**http://www.scialert.net**)**.
7. Trends in Molecular Sciences **(**http://www.scialert.net**)**.
8. Insight Biotechnology (http://insightknowledge.co.uk/jhome.php?jid=2040-8331).
9. Journal of Forest Products and Industries (http://researchpub.org/journal/jfpi).
10. Journal of Animal and Plant Sciences (http://sfx.cceu.org.cn/cgi-bin/tgxx.cgi?).
11. Agricultural Science and Technology (http://agriscitech.eu/).
12. Journal of Biological Sciences (https://scialert.net/jhome.php?issn=1727-3048)
13. Trends in Bioinformatics (https://scialert.net/jhome.php?issn=1994-7941)
14. American Journal of Biochemistry and Molecular Biology (https://scialert.net/jhome.php?issn=21504210)
15. Research Journal of Nanoscience and Nanotechnology (https://scialert.net/jhome.php?issn=1996-5044)

TRAINING COURSES ATTENDED:

25-28 March 1996 **: "Biodiversity Data Management".** Egyptian Environmental Affairs Agency, National Biodiversity Unit (NBU), **Egypt**.

22 June-3 July 1997 **: "Molecular Biology & Development".** Zagazig University, Benha Branch, Faculty of Science, Department of Botany, **Egypt**.

13-16 December 1997 **: "Electron Microscopy (Technique & Interpretation)".** Electron Microscope Research Service Unit, Faculty of Science, Cairo University, **Egypt**.

9-14 March 2002 **: "Workshop for Biotechnology: Science and Ethics".** Collaboratively Organized by DAAD (Cairo Office) and Assiut University, Assiut, **Egypt**.

11-13 December 2004 **: "Scientific Research Methods".** Faculty and Leadership Development Center, Cairo University, **Egypt**.

13-18 November 2005 **: "Molecular Biology Training Course".** Organized by Development of Molecular Biology Courses Project, Higher Education Enhancement Project Fund (HEEPF), at Faculty of Science, Cairo University**, Egypt.**

19-23 November 2005 **: "Elimination and reuse heavy metals from wastewater".** National Research Center, **Egypt.**

12-13 April 2006 **: "Credit hours system".** Faculty and Leadership Development Center, Cairo University, **Egypt**.

9 May- 4 July 2006 **: "Summer school on protein crystallography and drug design".** Collaboratively organized by the Faculty of Science, Cairo University, and Academy of Scientific Research & Technology (ASRT), at Faculty of Science, Cairo University, **Egypt.**

24 December 2008 **: "Preparation of questionnaires and analysis in order to ensure quality".** Quality Assurance and Accreditation Center, Cairo University, **Egypt**.

26-28 January 2009 **: "Research team management"**. Faculty and Leadership Development Center, Cairo University, **Egypt**.

30 Aug.-1 Sept. 2009 **: "Use technology in teaching".** Faculty and Leadership Development Center, Cairo University, **Egypt**.

7-9 June 2010 **: "Financial and legal aspects".** Faculty and Leadership Development Center, Cairo University, **Egypt**.

7-9 June 2010 **: "Quality standards in the teaching process".** Faculty and Leadership Development Center, Cairo University, **Egypt**.

1st October 2011 **: "Master The Cloud with the power of convergence".** Deanship of Information Technology, King Abdulaziz University with cooperation with Hewlett-Packard Saudi Arabia, Jeddah, **Saudi Arabia.**

23-24 October 2011 **:** "**Basis of preparation supported research and research skills**". Center for Teaching and Learning Development, King Abdulaziz University, Jeddah, **Saudi Arabia.**

6 December 2011 **: "Data Bases (**SAGE, GALE, SCIENCE DIRECT, SCOPUS**).** Deanship of Library Affairs, King Abdulaziz University, Jeddah, **Saudi Arabia.**

9 November 2015 : **"UpToDate-EBM to answer clinical questions".** The Saudi Digital Library (SDL), **Saudi Arabia.**

21 October 2015 : **"How to use Ma'arfa database".** The Saudi Digital Library (SDL), **Saudi Arabia.**

9 December 2015 : **"How to get published".** The Saudi Digital Library (SDL), **Saudi Arabia.**

6 November 2016 : **"Design of questionnaire".** The Saudi Digital Library (SDL), **Saudi Arabia.**

5 October 2019 **: "QM training course in the design of electronic courses".** Joint training program in the field of e-learning among Saudi universities, **Saudi Arabia.**

NATIONAL AND INTERNATIONAL RESEARCH PROJECTS:

1994-1996 **:*"Survey of fungal flora in Egypt".*** National Biodiversity Unit (NBU). Egyptian Environmental Affairs (EEA), **Egypt.** (**Research group member**).

2006-2008 **:*"Siderophores and virulence of Aspergillus fumigates"*.** Austrian Science Foundation (FWF-Project P18606-B11), **Austria. (Research group member).**

2009-2011 **:***"Transcriptional networks controlling virulence in filamentous fungal pathogens (TRANSPAT)"*.** Austrian Science Foundation (FWF-Project I 282B09) (ESF/ERA-NET-Pathogenomics), **Austria. (Research group member).**

2010-2012 **:*"Production and regulation of lovastatin, a raw material of pharmaceutical industry for treatment of hyperlipidemia*".** Science and Technology Development Fund (STDF), Ministry of Higher Education and State of Scientific Research, **Egypt.** (**PI**)

2012 **:*"Biological control of some wheat diseases in Saudi Arabia".*** Distinct Study Project funded by the Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant no. (16-965-D1432) **(PI)**.

2012: ***"Chemical composition of Peganum harmala in Saudi Arabia and their biological activities".*** Funded by the Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant no. (316-372-1432). **(CoPI)**.

2012 **:*"Dietary Intake of Pesticides Based on Vegetable Consumption: A Case Study, Jeddah, Kingdom of Saudi Arabia".*** Distinct Study Project funded by the Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant no. (965-001-D1433) **(CoPI)**.

2013 **: *"Biodiversity of Arbuscular mycorrhizal fungi (AMF) in some wild plants and their application to ecosystem restoration in Mecca region".*** Funded by the Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, through a research group "Plant Biology" under grant no. (34/22/RG) **(CoPI)**.

2013 **:** "***Using of microbial growth promoters to increase growth and yield of some cultivated plants under Kingdom of Saudi Arabia environmental conditions***". Funded by King Abdulaziz City for Science and Technology (KACST), Riyadh, under grant no. (A-C-11-0647) **(CoPI).**

2013 **: *"Bioremediation of hydrocarbon-polluted soils by black fungi"*.** Distinguished Scientists Project funded by the Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant no. (1-965/1434-HiCi) **(PI)**

2014 **: *"Screening of mycotoxins in food and feed stuffs in local markets, Jeddah, Saudi Arabia"***. Distinct Study Project funded by the Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant no. (101-965D1432) **(PI)**.

2014 **: *"Next Generation Biosensors for the Environment and Health: Direct Current Response from Microbial Circuits"***. Distinguished Scientists Project funded by the Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, under grant no. (77-130-35-HiCi) **(PI).**

2015 **: "Biodiversity of microbial and plant life using next generation sequencing technology in Makkah region".** Funded by the Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, through a research group "Plant Biology" under grant no. (3-130-36-RG) **(PI)**.

2015 **: "Bioremediation and health risks of black fungi in hydrocarbon-polluted environments"**. Funded by the Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, through a research group "Plant Biology" under grant no. (30-130-36-RG) **(PI)**.

2018 **: "Transcriptomic analysis of stress genes in tomato varieties".** Funded by the Deanship of Scientific Research (DSR), King Abdulaziz University, Jeddah, through a research group "Plant Biology" under grant no. (RG-26-130-39-RG) **(CoPI)**.

2018 **: "Molecular characterization and *in vitro* antifungal susceptibility of dermatophytes isolated from Jeddah, Saudi Arabia".** Funded by the Deanship of Scientific Research (DSR), University of Jeddah, Jeddah, through the international collaboration project fund under grant no. (UJ-14-18-ICP) **(CoPI)**.

2018 **: "A comparative transcriptome analysis to understand abiotic stress adaptation in plants to achieve high yield transgenic crops under abiotic stress in Saudi Arabia".** Funded by the Deanship of Scientific Research (DSR), University of Jeddah, Jeddah, through the international collaboration project fund under grant no. (UJ-14-18-ICP) **(CoPI)**.

2018 **: "Biochemical and molecular biological studies on hormonal alterations in tilapia fish as biomarkers of freshwater pollution by zinc oxide nanoparticles".** Funded by the Deanship of Scientific Research (DSR),

University of Jeddah, Jeddah, through the international collaboration project fund under grant no. (UJ-14-18-ICP) **(CoPI)**.

2018 **: "Biosorption of cadmium heavy metal from industrial wastewater".** Funded by the Deanship of Scientific Research (DSR), University of Jeddah, Jeddah, through distinct study project fund under grant no. (UJ-50-18-DR) **(PI)**.

2020 **: "Biological control of some nematodes causing diseases of cucurbit in Saudi Arabia".** Funded by the Deanship of Scientific Research (DSR), University of Jeddah, Jeddah, through distinct study project fund under grant no. (UJ-20144-DR) **(CoI)**.

2020 **: "Diversity of plants in some provinces of Makkah region, Saudi Arabia using metagenome analysis".** Funded by the Deanship of Scientific Research (DSR), University of Jeddah, Jeddah, through distinct study project fund under grant no. (UJ-20-032-DR) **(CoI)**.

AWARDS:

1996 **:** UNESCO fellowship for Young scientists **"Man and Biosphere (MAB)".**

1 Feb.- 31 July 2008 **:** Governmental fellowship (sponsored by Ministry of higher Education and Scientific Research) at Division of Molecular Biology, Biocenter, Innsbruck Medical University, Innsbruck, Austria.

November 2008 **:** Nominated and considered for inclusion in the Twenty Sixth Edition, 2009 of **Who's Who in the World®.**

REVIEWER IN INTERNATIONAL JOURNALS

1. Cell Biochemistry and Biophysics (Springer).
2. SpringerPlus (Springer)
3. Process Biochemistry (Elsevier).
4. Saudi Journal of Biological Sciences (Elsevier).
5. Pharmacognosy Research (Medknow)
6. Journal of Pharmacognosy and Phytochemistry
7. British Biotechnology Journal (Science Domain)
8. Journal of Agricultural Science and Technology (JAST)
9. Biocontrol Science and Technology (Tylor and Francis)
10. Molecular Biology Reports (Springer)

EXAMINER FOR M.SC. AND Ph.D. THESES **M.Sc. Theses**

1. **"Effect of radiation on the antimycotic activity of some drugs and natural products on *Candida* species".** Basant Mohamed Ibrahim Hashem**, 2009. Cairo University.**
2. **"Comparative study between different methods for detection and enumeration of pathogenic bacteria from aquatic environment".** Mohamed Azab Rashed El-Lathy**, 2009. Cairo University.**
3. **"Role of lanthanum and antagonistic organisms on wheat resistance to pathogenic fungi".** Fatma Sayed Mohamed**, 2011. Cairo University.**
4. **"Detection of group B *Streptococcus* using different techniques".** Asmaa Mohamed Mohamed AboElAref**, 2014. Cairo University.**
5. **"Antimicrobial effect of some medicinal plants against pathogenic microorganisms".** Abdullah Abed Baz, **2014. King Abdulaziz University, Saudi Arabia.**
6. **"Biotechnological production, purification and characterization of the enzyme naringinase**". Eman Sayed Mostafa**, 2016. Cairo University, Egypt.**
7. **"Anti-fungal Properties of Four Medicinal Plant Extracts Against Vaginal Candida Infections".** Wael Abdulrahman Mohamed Alsubhi**, 2019. King Abdulaziz University, Saudi Arabia.**

Ph.D. Theses

1. **"Study and evaluation of de-emulsification capacity of some biosurfactants".** Shereen Mohamed Samir**, 2007. Alexandria University, Egypt.**
2. **"Bioremediation of polycyclic aromatic hydrocarbons in agricultural ecosystems".** Omaima Abdel-Atti Sharaf**, 2012. Cairo University, Egypt.**
3. **"Improvement of fungal disease resistance in potato using gene(s) transfer and *in vitro* selection".** Rehab Mahmoud Hafez**, 2012. Cairo University, Egypt.**
4. **"Biological control of soil-borne root diseases in ground-nut by inoculating microbial inoculants (AM fungi and *Trichoderma*)".** Khirood Doley, **2012. University of Pune, India.**
5. **"The biological and physiological responses of fungi to some disinfectants combined with copper".** Awad A. A. El-Shoura, **2015. Menoufiya University, Egypt.**
6. **"Prognostic biomarkers of colorectal carcinoma in Saudi patients".** Maryam H. S. Al-Zahrani, **2016. King Abdulaziz University, Saudi Arabia.**
7. **"The molecular characterization of NS methyltransferase domains of Dengue virus and its applications in Kingdom of Saudi Arabia".** Afaf S. O. Alwabli, **2019. King Abdulaziz University, Saudi Arabia.**

8. **"Enhancement of the anti-clotting activity in some fibrinolytic enzyme-producing *Bacillus* strains".** Abdulghafoor K. S. Baig, **2019. King Abdulaziz University, Saudi Arabia.**
9. **"Molecular identification of microbiota in normal and patient's human oral cavity".** Mohammed I. A. Assiri, **2019. King Abdulaziz University, Saudi Arabia.**
10. **"Genetic Improvement of local isolated *Bacillus thuringiensis* strains for controlling mosquitoes".** Othman Y. A. Al-Yahyawy, **2020**. **King Abdulaziz University, Saudi Arabia.**

INTERNATIONAL CONFERENCES AND MEETINGS PARTICIPATE:

- 6th International Congress of Plant Pathology, **28 July-6 August 1993**, National Research Council Canada, **Montreal, Canada**.
- IT Primer Workshop on "Basic Web Technology Skills for Courseware Development". **14-18 October 2001,** Collaboratively Organized by UNESCO, ISESCO and the University of Bahrain. **Manama, Bahrain.**
- 11th International Conference of Union of Arab Biologists, **7-9 September 2004**, Faculty of Science, Cairo University, **Cairo, Egypt**.
- SESAME 5th Users' Meeting, **29 November-2 December 2006**, **Alexandria, Egypt.**
- 3rd Saudi Science Conference (New Horizons in Science and their Applications), **10-13 March 2007**, College of Science, King Saud University, **Riyadh**, **Saudi Arabia**.
- SESAME 6th Users' Meeting, **17-19 November 2007**, **Amman, Jordan.**
- 3rd International Conferences of Environmental Research Division, National Research Center "Environmental Science& Technology" **1-3 April 2008,** Environmental Research Division, National Research Center, **Cairo, Egypt.**
- SESAME 7th Users' Meeting, **20-21 November 2008**, Cairo University, **Cairo, Egypt**.
- 4th International Conference on Scientific Research and their Applications, **17-19 December 2008**, Cairo University, **Cairo**, **Egypt.**
- 1st International Conference on "Biotechnology and Environmental Safety" **14-16 April 2009**, National Research Centre, **Cairo, Egypt.**
- 3rd International Conference of Genetic Engineering and Biotechnology Research Division "Biotechnology for Better Life" **3-5 November 2009**, National research Centre, **Cairo, Egypt.**
- 4th International Conference on Applied Mathematics, Simulation, Modeling (ASM'10), **July 2225, 2010**, **Corfu Island, Greece**.
- 1st International Biotechnology Innovation Conference, **21-23 November 2010**, Faculty of Science, Cairo University, **Cairo, Egypt.**
- COVID-19: Online International Conference, **28 March 2020,** Dammam Medical Complex, **Saudi Arabia.**

- COVID-19: Organ Failure and Patient Survival, Online Webinar **30 March 2020,** Jeddah, **Saudi Arabia.**
- COVID-19: Prevention of Cure, Online Webinar **7 April 2020,** Jeddah, **Saudi Arabia.**
- COVID-19: Male Infertility, Online Webinar **8 April 2020,** Jeddah, **Saudi Arabia.**

THESES SUPERVISED BY Prof. Dr. TAREK A. A. MOUSSA:

M.SC. THESES

A. Awarded Theses

1. **Ramy Sayed Yehia *(Awarded April 2007)***

   "Production and biological evaluation of laccase from edible mushroom *Pleurotus ostreatus*". Registered ***April 2005*** at Faculty of Science, Cairo University.

2. **Amal Amin Hamed *(Awarded September 2007)***

   "Molecular characterization of tomatinase enzyme isolated from Egyptian *Fusarium oxysporum* isolates". Registered ***February 2003*** at Faculty of Science, Cairo University.

3. **Basant Mohamed Ibrahim Hashem *(Awarded December 2009)***

   "Effect of radiation on the antimycotic activity of some drugs and natural products on *Candida* species". Registered ***September 2005*** at Faculty of Science, Cairo University.

4. **Mohamed Azab Rashed El-Lathy *(Awarded April 2009)***

   "Comparative study between different methods for detection and enumeration of pathogenic bacteria from aquatic environment". Registered ***October 2005*** at Faculty of Science, Cairo University.

5. **Lena Ahmed Saleh El-Faqueeh *(Awarded April 2010)***

   "Isolation, purification and evaluation of some antitumor compounds from *Pleurotus ostreatus*". Registered ***January 2008*** at Faculty of Science, Cairo University.

6. **Fatma Sayed Mohamed *(Awarded May 2011)***

   "Role of lanthanum and antagonistic organisms on wheat resistance to pathogenic fungi". Registered ***October 2008*** at Faculty of Science, Cairo University.

7. **Al-Shimaa Saber Mohamed *(Awarded June 2011)***

   "Evaluation of antifungal potential of ozone against some dermatophytes". Registered ***March 2005*** at Faculty of Science, Cairo University.

8. **Rabab Husein Ibrahim *(Awarded July 2012)***

   "Induction, purification and characterization of the antileukemic fungal asparaginase". Registered ***October 2007*** at Faculty of Science, Cairo University.

9. **Nadia Abdrabo Abd El-Khalek Samak *(Awarded April 2013)***

"Bioremediation and oil recovery using microbial surfactants". Registered ***November 2010*** at Faculty of Science, Cairo University.

10. **Asmaa Mohamed Mohamed AboElAref** ***(Awarded March 2014)***

"Detection of group B *Streptococcus* using different techniques". Registered ***January 2011*** at Faculty of Science, Cairo University.

11. **Nahla Tohamy** ***(Awarded January 2015)***

"Prevalence of fecal carriage of enterobacteriaceae producing ESBL among adults". Registered ***January 2011*** at Faculty of Science, Cairo University.

12. **Hanan Mohamed Kamal** ***(Awarded September 2015)***

"Molecular characterization of diketide synthase encoding gene from *Aspergillus*". Registered ***November 2010*** at Faculty of Science, Cairo University.

13. **Eman Sayed Mostafa** ***(Awarded April 2016)***

"Biotechnological production, purification and characterization of the enzyme naringinase". Registered ***June 2012*** at Faculty of Science, Cairo University.

14. **Falah Huwyj Falah Al-makhalas** ***(Awarded April 2021)***

"Isolation and characterization of β-glucosidase produced by archaea". Registered ***October 2019*** at Faculty of Science, University of Jeddah.

15. **Sultana Ahmed AlZahrani** ***(Awarded April 2021)***

"Evaluation of some fungal bioactive secondary metabolites as anti-parasitic compounds". Registered ***October 2019*** at Faculty of Science, University of Jeddah.

16. **Marwa Hosny Mohamed Hasan** ***(Awarded November 2021)***

"Isolation and biochemical characterization of some siderophores produced by *Aspergillus fumigatus*". Registered ***June 2012*** at Faculty of Science, Cairo University.

B. Running Theses

1. **Asmaa Reda Salim Ali Abu Gariba** ***(Postponed)***

"Biochemical characterizers of antimicrobial peptides expressed in some animals". Registered ***April 2006*** at Faculty of Science, Cairo University.

2. **Yasmin Emad Mahmoud Mohamed** ***(Postponed)***

"Enhancement of fungal biodegradation of oil-polluted soil by gamma and solar radiation". Registered ***May 2006*** at Faculty of Science, Cairo University.

3. **Shaimaa I. M. Abouraya** ***(Postponed)***

"Control of some pathogenic fungi of cultivated mushroom". Registered ***December 2006*** at Faculty of Science, Cairo University.

4. **Noha Mohamed Samir** ***(Postponed)***

"Production of citric acid from some *Aspergillus* spp. by solid state fermentation". Registered ***July 2007*** at Faculty of Science, Cairo University.

5. Mai Reda Sayed Ali *(Postponed)*

"Isolation and characterization of antimicrobial proteins from sugarbeet plants as a response to fungal infection". Registered ***January 2008*** at Faculty of Science, Cairo University.

6. El-Sayed Abd El-Aal El-Sayed *(Postponed)*

"Development and application of 3D structure prediction workflows and protein-protein interaction networks for HCV proteins with laboratory validation". Registered ***January 2011*** at Faculty of Science, Cairo University.

7. Eman Abd El-Kareem Abd El-Faheem Ahmed *(Postponed)*

"New antimicrobial compound (s) produced by *Epicoccum* spp.". Registered ***January 2011*** at Faculty of Science, Cairo University.

9. Nora Mahmoud Ramadan

"Blood stream infection with Candida auris among children in Egypt". Registered ***November 2021*** at Faculty of Science, Cairo University.

10. Safaa Mohamed Abubakr

"Assessment of the microbial degradation of pesticide(s) using chromatographic methods". Registered ***November 2021*** at Faculty of Science, Cairo University.

11. Salma Adel Hasan

"Evaluation of symbiotic combined nano formula as immunostimulants, growth promoter and antimicrobial activities in poultry". Registered ***November 2021*** at Faculty of Science, Cairo University.

PH.D. THESES

A. Awarded Theses

1. Shereen Mohamed Samir *(Awarded August 2007)*

"Study and evaluation of de-emulsification capacity of some biosurfactants". Registered ***September 2001*** at Faculty of Engineering, Alexandria University.

2. Ramy Sayed Yehia *(Awarded July 2010)*

"Studying the fibrinolytic activity from the edible mushroom *Pleurotus ostreatus*".

Registered ***July 2007*** at Faculty of Science, Cairo University.

3. Mostafa Mohamed Mohamed Ali *(Awarded November 2010)* (Libya)

"Comparative study on phenotypic and molecular characterization and virulence factors of *Escherichia coli* from Egypt and Libya". Registered ***March 2007*** at Faculty of Science, Cairo University.

4. Rehab Mahmoud Hafez *(Awarded November 2012)*

"Improvement of fungal disease resistance in potato using defensin gene transfer and *in vitro* selection". Registered ***July 2007*** at Faculty of Science, Cairo University.

5. Omaima Abdel-Atti Sharaf *(Awarded January 2013)*

"Bioremediation of polycyclic aromatic hydrocarbons in agricultural ecosystems". Registered ***September 2006*** at Faculty of Science, Cairo University.

6. Safaa Al-Deen Ahmed Al-Qaysi *(Awarded December 2013)* (Iraq)

"Control of pathogenic *Streptomyces* species using thaxtomin utilizing fungi and nitric oxide synthase inhibitors". Registered ***July 2010*** at Faculty of Science, Cairo University.

7. Baydaa Hussein Alwan *(Awarded October 2014)* (Iraq)

"Biological properties of some bacterial toxins as antitumor agents". Registered ***March 2010*** at Faculty of Science, Cairo University.

8. Reem Ahmed Ibrahim Al-Hazzim *(Awarded December 2014)* (Kuwait)

"Genetic diversity of *Rhizoctonia solani* isolates infecting potato plant". Registered ***October 2010*** at Faculty of Science, Cairo University.

B. Running Theses

1. Sara Mohamed Khaled Elshafie

Effect of essential oils. Registered ***December 2020*** at Faculty of Science, Cairo University.

COURSES TAUGHT BY PROF. TAREK MOUSSA

I. Undergraduate

Actinomycetes (Mic 212) Microbial Enzymes (Mic 312)

Molecular Biology (Mic 382)

Microbial Pollutants (Mic 313)

Food Microbiology (Mic 412)

DNA Microarrays/DNA chips/Gene chips (BioT406)

GMOs and Biosafety and Regulations (BioT403)

Manufacturing and Bioprocess (BioT 313)

Mycology (SCBI 323)

Principles of Microbial Taxonomy (SCBI 431)

General Microbiology (SCBI 311)

Microbial Physiology (SCBI 412)

Plant Pathology (SCBI 414)

Introduction in Proteomics (BIO 405)

Introduction in Biotechnology (BIO 370)

Microbial Genetics (BIO 433)

II. Postgraduate

Research Skills (BIO 600) Microbial Bioinformatics (BIO 602) Mycotoxins (BIO 617) Advanced Fungal Taxonomy (BIO 614) Research Methods (BIOC 694) Special Topics (BIO 613)	Actinomycetes (BIO 610) Soil Microbiology Tissue culture and biotechnology Advanced Molecular Biology Scientific Design and Data Analysis Microbial Genetics

PUBLICATIONS

	Scopus	Google Scholar
H-index	**21**	**28**
No. of publications	**60**	**104**
No. of citations	**1579**	**2755**

Year 1996

1. **El-Abyad, M. S.; Abu-Taleb, A. M. and Abdel-Mawgoud, T. (1996).** Effect of the herbicide pyradur on host cell wall-degradation by the sugarbeet pathogens *Rhizoctonia solani* Kühn and *Sclerotium rolfsii* Sacc. *Can. J. Bot.* **74:** 1407-1415.

Year 1997

2. **El-Abyad, M. S.; Abu-Taleb, A. M. and Abdel-Mawgoud, T. (1997).** Response of host cultivar to cell wall-degrading enzymes of the sugarbeet pathogens *Rhizoctonia solani* Kühn and *Sclerotium rolfsii* Sacc. under salinity stress. *Microbiol. Res.* **152:** 9-17.

Year 2001

3. **Moussa, T. A. A. and Shanab, S. M. M. (2001).** Impact of cyanobacterial toxicity stress on the growth activities of some phytopathogenic *Fusarium* spp. *Az. J. Microbiol.* **53:** 267-282.

Year 2002

4. **Shalaby, A. M.; Rizk, M. A. and Moussa, T. A. A. (2002).** Effect of igran on the rhizosphere mycoflora of *Vicia faba* plants grown in soils infested with *Orabanche crenata* and amended with *Rhizobium leguminosarum*. *Pak. J. Biol. Sci.* **5:** 517-520.
5. **Moussa, T. A. A. and Rizk, M. A. (2002).** Biocontrol of sugarbeet pathogen *Fusarium solani* (Mart.) Sacc. by *Streptomyces aureofaciens*. *Pak. J. Biol. Sci.* **5:** 556-559.
6. **Moussa, T. A. A. (2002).** Studies on biological control of sugarbeet pathogen *Rhizoctonia solani* Kühn. *J. Biol. Sci.* **2:** 800-804. DOI: 10.3923/jbs.2002.800.804

Year 2003

7. **Rizk, M. A. and Moussa, T. A. A. (2003).** Allelopathic potential of sunflower towards maize rhizosphere microflora infested with *Cephalosporium maydis*. *New Egypt. J. Microbiol.* **4:** 98107.
8. **Rizk, M. A. and Moussa, T. A. A. (2003).** Impact of gamma irradiation stresses. I. Response of gamma-irradiated sugarbeet seeds to infection by soil-borne fungal pathogens. *Plant Pathol. J.* **2:** 28-38.
9. **Moussa, T. A. A. and Rizk, M. A. (2003).** Impact of gamma irradiation stresses. II. Control of sugarbeet pathogens *Rhizoctonia solani* Kühn and *Sclerotium rolfsii* Sacc. *Plant Pathol.J.* **2:** 10-20.

Year 2004

10. **Moussa, T. A. A. and Abo-Ellil, A. H. (2004).** Inhibitory effects of camel urine on pathogenic fungi. *J. Union Arab Biol*. **13 (B):** 53-67.

Year 2006

11. **Moussa, T. A. A.; Ahmed, G. M. and Abdel-Hamid, S. M.-S. (2006).** Optimization of cultural conditions for biosurfactant production from *Nocardia amarae*. *J. Appl. Sci. Res.* **2:** 844-850.

Year 2007

12. **Moussa, T. A. A. and Tharwat, N. A. (2007).** Optimization of cellulase and β-glucosidase induction by sugarbeet pathogen *Sclerotium rolfsii*. *Afr. J. Biotechnol.* **6:** 1048-1054.

Year 2008

13. **Moussa, T. A. A. and Ali, D. M. I. (2008).** Isolation and identification of novel disaccharide of α-L-Rhamnose from *Penicillium chrysogenum*. *World Appl. Sci. J.* **3:** 476-486.

Year 2009

14. **Moussa, T. A. A. (2009).** Optimization of the induction factors of xylanase and β-xylosidase from sugarbeet pathogen *Sclerotium rolfsii*. *J. King Saud Univ. (Science)* **21:** 33-40.
15. **Moussa, T. A. A. (2009).** Molecular characterization of phenol oxidase (*pox2*) gene from ligninolytic fungus *Pleurotus ostreatus*. *FEMS Microbiol. Lett*. **298:** 131-142. DOI:10.1111/j.1574-6968.2009.01708.x.
16. **Yasmin, S.; Abt, B.; Schrettl, M.; Moussa, T. A. A.; Werner, E. R. and Haas, H. (2009).** The interplay between iron and zinc metabolism in *Aspergillus fumigatus*. *Fungal Genet. Biol.* **46:** 707-713.
17. **El-Lathy, M. A.; El-Taweel, G. E ; El-Sonosy, W. M.; Samhan, F. A.; Moussa, T. A. A. (2009).** Determination of pathogenic bacteria in wastewater using conventional and PCR techniques. *Environ. Biotechol.* **5:** 73-80.

Year 2010

18. **El-Taweel, G. E.; Moussa, T. A. A.; Samhan, F. A.; El-Senousy, W. M.; El-Lathy, M. A. (2010).** Nested PCR and conventional techniques for detection of *Salmonella* spp. in River Nile Water, Egypt. *Egypt. J. Microbiol.* **45:** 63-76.
19. **Schrettl, M.; Beckmann, N.; Varga, J.; Heinekamp, T.; Jacobsen, I. D.; Jöchl, C.; Moussa, T. A. A.; Wang, S.; Gsaller, F.; Blatzer, M.; Werner, E. R.; Niermann, W.; Brakhage, A. A.; Haas, H. (2010).** HapX-mediated adaption to iron starvation is essential for virulence of *Aspergillus fumigatus*. *PLoS Pathogens* **6 (9),** pii: e1001124.
20. **El-Taweel, G. E ; Rashed, M. A.; El-Senousy, W. M.; Samhan, F. A.; Moussa, T. A. A. (2010).** Detection of Listeria group by conventional and PCR techniques from River Nile water. *Am. Eurs. J. Agric. Environ. Sci.* **7:** 48-54.

21. **Moussa, T. A. A.; Ahmed, G. M.; Abdel-Hamid, S. M.-S. (2010).** Mathematical model for biomass yield and biosurfactant production by *Nocardia amarae*. *WSEAS New Aspects of Fluid Mechanics, Heat Transfer and Environment* 27-33.

Year 2011

22. **Moussa, T. A. A. (2011).** Cloning and sequencing of phenol oxidase 1 (*pox1*) gene from *Pleurotus ostreatus*. *Afr. J. Biotechol.* **10 (8):** 1299-1308. DOI: 10.5897/AJB10.581.
23. **Gaber, H. M. and Moussa, T. A. A. (2011).** Regioselective synthesis and antimicrobial studies of novel bridgehead nitrogen heterocycles containing the thienopyrimidinone skeleton. *Eur. J. Chem.* **2 (2):** 251-259.

Year 2012

24. **Ali, M. M. M.; Mohamed, Z. K.; Klena, J. D.; Ahmed, S. F.; Moussa, T. A. A. and Ghenghesh, K. S. (2012).** Molecular characterization of diarrheagenic *Escherichia coli* from Libya. *Am. J. Trop. Med. Hyg* **86 (5):** 866-871. doi: 10.4269/ajtmh.2012.11-0330
25. **Abdel-Rahman, T. M. A.; Khalil, M. S.; Moussa, T. A. A.; Al-Qaysi, S. A. (2012).** Identification and characterization of *Streptomyces alkaliscabies* sp. nov. *J. Food Agri. Environ.* **10 (3&4):** 476483.
26. **Saker, M. M.; Moussa, T. A. A.; Heikal, N. Z.; Abo ELLil, A. H. A.; Abdel-Rahman, R. M. H. (2012).** Selection of an efficient *in vitro* micropropagation and regeneration system for potato (*Solanum tuberosum* L.) cultivar desirée. *Afr. J. Biotechol.***11 (98):** 16388-16404
27. **Moussa, T. A. A.; Khalil, N. M. (2012).** Solid-State Fermentation for The Production of Dextran from *Saccharomyces cerevisiae* and Its Cytotoxic Effects. *Life Sci. J.* **9 (4):** 2210-2218.
28. **Elazzazy, A. M.; Almaghrabi, O. A.; Moussa, T. A. A.; Abdel-Moneim, T. S. (2012).** Evaluation of some Plant Growth Promoting Rhizobacteria (PGPR) to Control *Pythium aphanidermatum* in Cucumber Plants. *Life Sci. J.* **9 (4):** 3147-3153.

Year 2013

29. **Albishri, H. M.; Almaghrabi, O. A.; Moussa, T. A. A. (2013).** Characterization and chemical composition of fatty acids content of watermelon and muskmelon cultivars in Saudi Arabia using gas chromatography/mass spectroscopy. *Phcog. Mag.***9 (33):** 56-64**.**
30. **Moussa, T. A. A.; Almaghrabi, O. A.; Abdel-Moneim, T. S. (2013).** Biological control of the wheat root rot caused by *Fusarium graminearum* using some PGPR strains in Saudi Arabia. *Ann Appl. Biol.***163:** 72-81.
31. **Moussa, T. A. A.; Ali, D. M.; Khalil, N. M.; Mostafa, F. A. (2013).** Molecular characterization of glyceraldehyde-3-phosphate dehydrogenase (*gapdh*) gene from *Aspergillus fumigatus*. *J. Food Agri. Environ.* **11(3&4):** 235-241**.**

32. **Khalil, M. S.; Moussa, T. A. A.; Abdel-Rahman, T. M. A.; Alwan, B. H. (2013).** Production medium optimization for enhancement the exotoxin secretion by *Pseudomonas aeruginosa*. *J. Food Agri. Environ.* **11(3&4):** 173-176.
33. **Moussa, T. A. A.; Elsherif, R. H.; Mohamed, Y. A.; Dawoud, M. E. A.; AboElAref, A. M. (2013).** Group B streptococcus colonization of pregnant women: comparative molecular and microbiological diagnosis. *Comp. Clin. Pathol.* **22:** 1229-1234. DOI 10.1007/s00580-012-1555x.
34. **Abdelmoneim, T. S.; Moussa, T. A. A.; Almaghrabi, O. A.; Alzahrani H. S.; Abdelbagi I. (2013).** Increasing plant tolerance to drought stress by inoculation with arbuscular mycorrhizal fungi. *Life Sci. J.* **10 (4):** 3273-3280.

Year 2014

35. **Abdelmoneim, T. S.; Moussa, T. A. A.; Almaghrabi, O. A.; Abdelbagi, I. (2014).** Investigation the effect of arbuscular mycorrhizal fungi on the tolerance of maize plant to heavy metals stress. *Life Sci. J.* **11 (4):** 255-263.
36. **Almaghrabi, O. A.; Abdelmoneim T. S., Albishri, H. M.; Moussa, T. A. A. (2014).** Enhancement of Maize Growth Using Some Plant Growth Promoting Rhizobacteria (PGPR) Under Laboratory Conditions. *Life Sci. J.* **11 (11):** 764-772.
37. **Ali, M. M. M.; Ahmed, S. F.; Klena, J. D.; Mohamed, Z. K.; Moussa, T. A. A. and Ghenghesh, K. S. (2014).** Enteroaggregative *Escherichia coli* is a significant causative agent of children diarrhea in Egypt: Molecular characterization and antimicrobial susceptibility. *J. Infect. Dev. Ctries* **8 (5):** 589-596.
38. **Moussa, T. A. A.; Khalil, M. S.; Gomaa, N. M.; Al-Hazzim, R. A. (2014).** Biodiversity of *Rhizoctonia solani* AG3 and AG2-1 associated with potato diseases. *Life Sci. J.* **11 (8):** 407-417.
39. **Moussa, T. A. A.; Mohamed, M. S.; Samak, N. (2014).** Production and characterization of di-rhamnolipid produced by *Pseudomonas aeruginosa* TMN. *Barz. J. Chem. Eng.* **31 (4):** 867-880.
40. **Baeshen, N. A.; Sabir, J. S.; Zainy, M. M.; Baeshen, M. N.; Abo-Aba, S. E. M.; Moussa, T. A. A.; Ramadan, H. A. I. (2014).** Biodiversity and DNA barcoding of soil fungal flora associated with *Rhazya stricta* in Saudi Arabia. *Bothalia J.* **44 (5):** 301-314.
41. **Lackner, M.; Hagen, F.; Meis, J. F.; Gerrits van den Ende, A. H. G.; Vu, D.; Robert, V.; Fritz, J.; Moussa, T. A. A.; de Hoog, G. S. (2014).** Susceptibility and diversity in therapy-refractory genus *Scedosporium*. *Antimicrob. Agents Chemother.* **58 (10):** 5877-5885.
42. **Ahmed, S. F.; Ali, M. M. M.; Mohamed, Z. K.; Moussa, T. A. A.; Klena, J. D. (2014).** Fecal carriage of extended-spectrum beta-lactamases and AmpC-producing *Escherichia coli* in a Libyan community. *Ann. Clin. Microbiol. Antimicrob.* **13:** 22.

43. **Moussa, T. A. A.; ElSherif, Rasha H.; Dawoud, M. E. A.; Dwedar, R. A.; Muhammedy, Nahla T. (2014).** Fecal carriage of extended-spectrum β-lactamase-producing *Enterobactearicae*: a comparative study between hospitalized and non-hospitalized patients. *Glo. Adv. Res. J. Microbiol.* **3 (5):** 083-088.
44. **Lackner, M.; De Hoog, G. S.; Yang, L.; Moreno, L. F.; Andreas, F. et al. (2014).** Proposed nomenclature for *Pseudallescheria*, *Scedosporium* and related genera. *Fungal Diversity.* **76:** 1-10.
45. **Abdelmoneim1, T. S.; Moussa, T. A. A.; Almaghrabi, O.A. (2014).** Survey of indigenous arbuscular mycorrhizal fungi under ecosystem of Saudi Arabia. *J. Pure Appl. Microbiol.* **8(6):** 4525-4532.
46. **Moussa, T. A. A.; Khalil, N. M.; Ali, D. M.; Mostafa, F. A. (2014).** Purification and biochemical characterization of xylanase from *Sclerotium rolfsii*. *J. Pure Appl. Microbiol.* **8(6):** 4727-4733.
47. **Badr El- Din, S. M.; Moussa, T. A. A.; Moawad, H.; Sharaf, O. A. (2014).** Isolation and characterization of polyaromatic hydrocarbons degrading bacteria from compost leachate. *J. Adv. Biol.* **5(2):** 651-660.

Year 2015

48. **Al-Harbi, S. A.; Bashandy, M. S.; Al-Saidi, H. M.; Emara, A. A. A.; Moussa, T. A. A. (2015).** Synthesis, spectroscopic properties, molecular docking, anti-colon cancer and anti-microbial studies of some novel metal complexes for 2-amino-4-phenylthiazole derivative. *Spectrochimica Acta A: Molecular and Biomolecular Spectroscopy* **145:** 425-439.
49. **Yu, J.; Walther, G.; Van diepeningen, A. D.; Gerrits Van Den Ende, A. H. G.; Li, R.-Y.; Moussa, T. A. A.; Almaghrabi, O. A.; De Hoog, G. S. (2015).** DNA barcoding of clinically relevant *Cunninghamella* species. *Med. Mycol.* **53(2):** 99-106. *doi: 10.1093/mmy/myu079*.
50. **Moussa, T. A. A.; Khalil, M. S.; Abdel-Fatah, H. M. K. (2015).** Screening for the production of lovastatin by different *Aspergillus* species. *Res. J. Pharm. Biol. Chem. Sci.* **6(4):** 1883-1888.
51. **Stielow, J. B.; Lévesque, C. A.; Seifert, K. A.; Meyer, W.; Irinyi, L.; Smits, D.; Renfurm, R.; Verkley, G. J. M.; Groenewald, M.; Chaduli, D.; Lomascolo, A.; Welti, S.; Lesage-Meessen, L.; Said AlHatmi, A. M.; Damm, U.; Yilmaz, N.; Houbraken, J.; Lombard, L.; Quaedvlieg, W.; Binder, M.; Vaas, L. A. I.; Vu, D.; Yurkov, A.; Begerow, D.; Roehl, O.; Guerreiro, M.; Fonseca, A.; Samerpitak, K.; van Diepeningen, A. M.; Dolatabadi, S.; Moreno, L.; Casaregola, S.; Mallet, S.; Jacques, N.; Roscini, L.; Egidi, E.; Bizet, C.; Garcia-Hermoso, D.; Esteban, M. P. M.; Deng, S.; Groenewald, J. Z.; Boekhout, T.; de Beer, Z. W.; Barnes, I.; Duong, T.; Wingfield, M.; de Hoog, G. S.; Crous, P. W.; Schoch, C.; Lewis, C. T.; Hambleton, S.; Moussa, T. A. A.; AlZahrani, H. S.; Almaghrabi, O. A.; Louis-Seize, G.; Assabgui, R.; McCormick, W.; Omer, G.; Dukik, K.; Cardinali, G.; Eberhardt, U.; de Vries, M.; Robert, V. (2015).** One fungus, which genes? Development and assessment of universal primers for potential secondary fungal DNA barcodes. *Persoonia* **35:** 242-263.

52. **Abd Elmegeed, A. M.; Ouf, S. A.; Moussa, T. A. A.; Eltahlawi, S. M. R. (2015).** Dermatophytes and other associated fungi in patients attending to some hospitals in Egypt. *Brazil. J. Microbiol.* **46(3):** 799-805.

Year 2016

53. **Ahmed, A. S.; Khan, Z. U.; Wang, X. W.; Moussa, T. A. A.; Al-Zahrani, S. H.; Almaghrabi, O. A.; Sutton, D. A.; Ahmed, S.; Groenewald, J. Z.; Alastruey-Izquierdo, A.; van Diepeningen, A.; Menken, S. B. J.; Najafzadeh, M. J. ; Crous, Pedro W.; Cornely, Oliver; Hamprecht, A.; Vehreschild, M. J. G. T.; Kindo, A. J.; De Hoog, G. S. (2016).** Chaetomium-like fungi causing opportunistic infections in humans: a possible role for extremotolerance. *Fungal Diversity* **76:** 11-26. Doi: 10.1007/s13225-015-0338-5
54. **Nascimento, M. M. F.; Selbmann, L.; Sharifynia, S.; Al-Hatmi, A. M. S.; Voglmayr, H.; Vicente, V. A.; Deng, S.; Kargl, A.; Moussa, T. A. A.; Al-Zahrani, H. S.; Almaghrabi, O. A.; de Hoog, G. S. (2016).** Arthrocladium, an unexpected human opportunist in Trichomeriaceae (Chaetothyriales). *Fungal Biol.* **120 (2):** 207-218. Doi:10.1016/j.funbio.2015.08.018.
55. **Almaghrabi, O. A.; Moussa, T. A. A. (2016).** Fatty acids constituents of *Peganum harmala* plant using Gas Chromatography-Mass Spectroscopy. *Saudi J. Biol. Sci.* **23(3):** 397-403.
56. **Ouf, S. A.; Moussa, T. A. A.; Abd Elmegeed, A. M.; Eltahlawi, S. M. R. (2016).** Dermatophytosis in special patient populations. *J. Coast. Life Med.* 4(4): 324-326.
57. **Ouf, S. A.; Moussa, T. A. A.; Abd Elmegeed, A. M.; Eltahlawi, S. M. R. (2016).** Anti-fungal potential of ozone against some dermatophytes. *Brazil. J. Microbiol.* **47(3):** 697-702. doi:10.1016/j.bjm.2016.04.014
58. **Moussa, T. A. A.; Al-Zahrani, H. S; Almaghrabi, O. A.; Sabry, N. M.; Fuller, M. P. (2016).** Metagenomic analysis of fungal taxa inhabiting Mecca region, Saudi Arabia. *Genomics Data* **9:** 126-127. doi:10.1016/j.gdata.2016.07.008.

Year 2017

59. **Moussa, T. A. A.; Gerrits van den Ende, A. H. G.; Al-Zahrani, H. S.; Kadasa, N. M. S.; De Hoog, G. S.; Dolatabadi, S. (2017).** The genus *Anthopsis* and its phylogenetic position in Chaetothyriales. *Mycoses*. **60(4):** 254-259. DOI: 10.1111/myc.12591.
60. **Moussa, T. A. A.; Al-Zahrani, H. S.; Kadasa, N. M. S.; Moreno, L. F.; Gerrits van den Ende, A. H. G.; De Hoog, G. S.; Al-Hatmi, A. M. S. (2017).** Nomenclatural notes on *Nadsoniella* and the human opportunist black yeast 1 genus *Exophiala*. *Mycoses*. **60(6):** 358-365. DOI: 10.111/myc.12600.
61. **Teixeira, M.M.; Moreno, L.F.; Stielow, B.J.; Muszewska, A.; Hainaut, M.; Gonzaga, L.; Abouelleil, A.; Patane, J.S.L.; Priest, M.; Souza, R.; Young, S.; Ferreira, K.S.; Zeng, Q.; da Cunha, M.M.L.; Gladki, A.; Barker, B.; Vicente, V.A.; de Souza, E.M.; Almeida, S.; Henrissat, B.; Vasconcelos, A.T.R.; Deng, S.; Voglmayr, H.; Moussa, T. A. A.; Gorbushina, A.; Felipe, M.S.S.; Cuomo, C.A.; de**

Hoog, G. S. (2017). Exploring the genomic diversity of black yeasts and relatives (*Chaetothyriales*, *Ascomycota*). *Stud. Mycol.* **86:** 1-28. Doi: 0.1016/j.simyco.2017.01.001**.**

62. **Moussa, T. A. A.; Kadasa, N. M. S.; Al-Zahrani, H. S.; Ahmed, S. A.; Feng, P.; Gerrits van den Ende, A. H. G.; Zhang, Y.; Kano, R.; Li, F.; Li, S.; Song, Y.; Dong, B.; Rossato, L.; Dolatabadi, S.; De Hoog, G. S. (2017).** Origin and distribution of *Sporothrix globosa* causing sapronoses in Asia. *J. Med. Microbiol.* **66:** 560-569. DOI 10.1099/jmm.0.000451.
63. **Moussa, T. A. A.; Al-Qaysi, S. A. S.; Thabit, Z. A.; Kadhem, S. B. (2017)**. Microbial Levan from *Brachybacterium phenoliresistens*: Characterization and enhancement of production. *Proc. Biochem.* **57:** 9-15. Doi: 10.1016/j.procbio.2017.03.008.
64. **Moussa, T. A. A.; Al-Zahrani, H. S.; Kadasa, N. M. S.; Ahmed, S. A.; De Hoog, G. S.; Al-Hatmi, A. M. S. (2017).** Two new species of *Fusarium fujikuroi* species complex isolated from the natural environment. *Antonie van Leeuwenhoek* **110:** 819-832. DOI: 10.1007/s1048-017-0855-1.
65. **Mohamed, A. H.; Youseif, S. H.; Abd El-Mageed, F. H.; Heikal, N. Z.; Moussa, T. A. A.; Saleh, S. A. (2017).** Production of cellulase, exoglucanase and xylanase by different microorganisms cultivated on agricultural wastes. *Res. J. Pharm. Biol. Chem. Sci.* **8(4):** 435-452.
66. **Moussa, T. A. A. (2017).** Mycotoxins and associated mycoflora in food and feed stuffs in Jeddah markets: analytical and molecular studies. *Res. J. Biotech.* **12(7):** 75-82.
67. **Moussa, T. A. A.; Al-Zahrani, H. S.; Almaghrabi, O. A.; Abdelmoneim, T. S.; Fuller, M. P. (2017).** Comparative metagenomics analysis of fungal taxa communities inhabiting the soil horizons of Mecca region, Saudi Arabia. *Plos One* 12(9): e0185096. 10.1371/journal.pone.0185096.

Year 2018

68. **Al-Bogami, A. S.; Saleh, T. S.; Moussa, T. A. A. (2018).** Green synthesis, antimicrobial activity and cytotoxicity of novel fused pyrimidine derivatives possessing a trifluoromethyl moiety. *ChemistrySelect* **3:** 8306-8311. DOI: 10.1002/slct.201801050
69. **Al-Halbosiy, M. M. F.; Thabit, Z. A.; Al-Qaysi, S. A. S.; Moussa, T. A. A. (2018).** Biological activity of levan produced from rhizospheric soil bacterium *Brachybacterium phenoliresistens* KX139300. *Baghdad Sci. J.* **15(3):** 238-243. DOI: 10.21123/bsj.2018.15.3.0238

Year 2019

70. **Rashad, Y. M.; Moussa, T. A. A. (2019).** Biocontrol Agents for Fungal Plant Diseases Management. In: El-Wakeil N., Saleh M., Abu-hashim M. (eds) Cottage Industry of Biocontrol Agents and Their Applications. Springer Nature Switzerland AG. pp. 337-364. DOI: 10.1007/978-3-030-33161-0_11.

Year 2020

71. **Kothri, M.; Mavrommati, M.; Elazazzy, A. M.; Baeshen, M. N.; Moussa, T. A. A. and Aggelis, G. (2020).** Microbial sources of polyunsaturated fatty acids (PUFAs) and the prospect of organic

residues and wastes as growth media for PUFA-producing microorganisms. *FEMS Microbiology Letters*, 367(5): fnaa028, https://doi.org/10.1093/femsle/fnaa028.

72. **Hussein**, **M**. **T**.; **Al-Qaysi**, **S**. **A.S.**; **Rathi**, **M**. **H.**; **Hussein**, **Q**. **I.**; **Moussa, T. A. A. (2020).** Prevalence and characterization of some colibactin genes in clinical Enterobacteriaceae isolates from Iraqi patients. *Baghdad Sci. J.* 17(3): 1113-1123. DOI: 10.21123/bsj.2020.17.3.0000.
73. **Sabry, M. N.; Moussa, T. A. A. (2020).** Characterization and antimicrobial efficacy of bovine dermcidin-like antimicrobial peptide gene. *Int. J. Pharm. Phytopharm. Res.* 10(3): 108-117.
74. **Noor, S. O.; Al-Zahrani, D. A.; Hussein, R. M.; Baeshen, M. N.; Moussa, T. A. A.; Baeshen, N. A.; Huelsenbeck**, **J**. **P. (2020).** Comparative transcriptome of transcription factors in *Rhazya stricta* and some other desert plants. *Entomol. Appl. Sci. Lett. 7(4):* 42-57. DOI: 10.1111/j.1365-313X.2010.04448.x.
75. **Baeshen, M. N.; Moussa, T. A. A.; Ahmed, F.; Abulfaraj, A. A.; Jalal, R. S.; Majeed, M. A.; Baeshen**, **N**. **A.**; **Huelsenbeck**, **J**. **P.** (2020). Diversity profiling of associated bacteria from the soils of stress tolerant plants from seacoast of Jeddah, Saudi Arabia**.** *Appl. Ecol. Environ. Res.* 18(6): 8217-8231.

Year 2021

76. **Moussa, T. A. A.; Sabry, N.M. (2021).** A new proposed mechanism of some known drugs targeting the sars-cov-2 spike glycoprotein using molecular docking. *Biointerface Res. Appl. Chem.* 11(5): 12750–12760. DOI: 10.33263/BRIAC115.1275012760.
77. **Sabry, N.M.; Moussa, T. A. A. (2021).** Characterization and Structural Properties of Glycam1 Gene of Some Domestic Animals. *Systematic Rev. Pharm.* 12(1): 1006-1017.
78. **Noor, S. O.; Al-Zahrani, D. A.; Hussein, R. M.; Baeshen, M. N.; Moussa, T. A. A.; Abo-Aba, S. M.; Al-Hejin, A. M.; Baeshen, N. A.; Huelsenbeck, J. P. (2021).** Assessment of fungal diversity in soil rhizosphere associated with *Rhazya stricta* and some desert plants using metagenomics. *Arch. Microbiol.* 203: 1211-1219. DOI: 10.1007/s00203-020-02119-z.
79. **Al-Tuwaijri, M. M.**; **Basal, W. T.**; **Sabry, N. M.**; **Moussa, T. A. A.**; **Das, B.**; **Eid, J. I. (2021).** *Inonotus obliquus* polysaccharides inhibited cellular growth of NCI-H23 and A549 lung cancer cells through G0/G1 cell cycle arrest and ROS mediated cell death. *Egypt. Acad. J. Biol. Sci., C, Physiol. Mol. Biol.* 13(1): 27-40. DOI: 10.21608/EAJBSC.2021.144738.
80. **Alzahrani, S. A.; Alhazmi, N. M.; Moussa, T. A. A. (2021).** Optimization of chitinase production from *Aspergillus terreus* and its activity against root-knot nematode *Meloidogyne incognita*. *Biosci. Res.* 18(2): 1313-1324.
81. **Alshehri, W.; Moussa, T. A. A. (2021).** Extended-spectrum β-lactamase Enterobacteriaceae from patients in Jeddah, Saudi Arabia: Antibiotic susceptibility and molecular approaches. *J. Contemp. Med. Sci. 7*(1): 28-33.

82. **Al-Qaysi, S. A. S.; Al-Haideri, H.; Al-Shimmary, S. M.; Abdulhameed, J. M.; Alajrawy, O. I.; AlHalbosiy, M. M.; Moussa, T. A. A.; Farahat, M. G. (2021).** Bioactive levan-Type Exopolysaccharide Produced by *Pantoea agglomerans* ZMR7: Characterization and Optimization for Enhanced Production. *J. Microbiol. Biotechnol.* 31(5): 696–704. DOI: 10.4014/jmb.2101.01025.
83. **Moussa, T. A. A.; Mohy Eldin, M. S.; Alkaldi, A. (2021).** Cadmium(II) ions removal using dried banana bunch powder: experimental, kinetics, and equilibria. *Desal. Water Treat.* 226: 263-275.
84. **Baeshen, M. N.; Ahmed, F.; Moussa, T. A. A.; Abulfaraj, A. A.; Jalal, R. S.; Noor, S. O.; Baeshen, N. A.; Huelsenbeck, J. P. (2021).** A comparative analysis of de novo transcriptome assembly to understand the abiotic stress adaptation of desert plants in Saudi Arabia. *Appl. Ecol. Environ. Res.* 19(3):1753-1782. Doi: 10.15666/aeer/1903_1753178.
85. **Najjar, A. A.; Alharbi, D. S.; Bohkari, F. M.; Bafeel, S. O.; El-Zohri, M. H.; Shafi, M. E.; Zabermawi, N. M.; Moussa, T. A. A.; Noor, S. O. (2021).** Potential of endophytic fungi to reduce *Calotropis procera* leaves toxicity in Jeddah, Saudi Arabia. *Pharmacophore* 12(2): 71-78.

Year 2022

86. **Moussa, T. A. A.; Khalil, N. M. (2022).** Extremozymes from extremophilic microorganisms as sources of bioremediation. In: *Microbial Extremozymes* (pp. 135-146). Academic Press.
87. Correction to: **Lackner, M.; De Hoog, G. S.; Yang, L.; Moreno, L. F.; Andreas, F. et al. (2022).** Proposed nomenclature for *Pseudallescheria*, *Scedosporium* and related genera. *Fungal Diversity* **113:** 193-194.
88. **Al-Zahrani, H. S.; Moussa, T. A. A.; Alsamadany, H.; Hafez, R. M.; Fuller, M. P. (2022).** Phylogenetic and expression studies of small GTP-binding proteins in *Solanum lycopersicum* super strain B. *Plants* **11(5):** 641.
89. **Xie, P.; Shi, Z.; Feng, M.; Sun, K.; Liu, Y.; Yan, K.; Liu, C.; Moussa, T. A. A.; Huang, M.; Meng, S.; Liang, G.; Hou, H.; Fan, R.; Guo, Z. (2022).** Recent advances in radio-frequency negative dielectric metamaterials by designing heterogeneous composites. *Adv Compos Hybrid Mater*. https://doi.org/10.1007/s42114-022-00479-2.

Year 2023

90. **Rashad, Y. M.; Baka, Z. M.; Moussa, T. A. A. (2023).** Plant Mycobiome: Diversity, interaction and uses, ISBN 978-3-031-28306-2, Springer Nature. https://doi.org/10.1007/978-3-031-28307-9.
91. **Rashad, Y. M.; Baka, Z. M.; Moussa, T. A. A. (2023).** Mycotoxins and their products: Diversity, side effects and control. In: Plant Mycobiome: Diversity, interaction and uses, **Rashad, Y., Baka, Z., Moussa, T.A.A** (eds.), ISBN 978-3-031-28306-2, Springer Nature. https://doi.org/10.1007/978-3-031-28307-9_1.

92. **Moussa, T. A. A.; Mohamed, A. H.; Zaky, M. S. (2023).** Rhizosphere Mycobiome: Roles, Diversity, and Dynamics. In: Plant Mycobiome: Diversity, interaction and uses, **Rashad, Y., Baka, Z., Moussa, T.A.A** (eds.), ISBN 978-3-031-28306-2, Springer Nature. https://doi.org/10.1007/978-3-031-28307-9_3.
93. **Baka, Z. M.; Rashad, Y. M.; Moussa, T. A. A.; (2023).** Plant-Fungus Interactions in Rust Diseases. In: Plant Mycobiome: Diversity, interaction and uses, **Rashad, Y., Baka, Z., Moussa, T.A.A** (eds.), ISBN 978-3-031-28306-2, Springer Nature. https://doi.org/10.1007/978-3-031-28307-9_6.
94. **Moussa, T. A. A.; Rashad, Y. M.; Baka, Z. M. (2023).** New Perspectives on Fungal Siderophores. In: Plant Mycobiome: Diversity, interaction and uses, **Rashad, Y., Baka, Z., Moussa, T.A.A** (eds.), ISBN 978-3-031-28306-2, Springer Nature. https://doi.org/10.1007/978-3-031-28307-9_9.
95. **Rashad, Y. M.; Moussa, T. A. A.; Abdalla, S. A. (2023).** Roles and benefits of Mycorrhiza. In: Plant Mycobiome: Diversity, interaction and uses, **Rashad, Y., Baka, Z., Moussa, T.A.A** (eds.), ISBN 978-3-031-28306-2, Springer Nature. https://doi.org/10.1007/978-3-031-28307-9_16.
96. **Al-hazmi, M. A.; Moussa, T. A. A.; Alhazmi, N. M. (2023).** Statistical optimization of biosurfactant production from Aspergillus niger SA1 fermentation process and mathematical modeling. *J. Microbiol. Biotechnol.* (accepted).

Papers Under Publishing in Peer Reviewed Journals

1. **Moussa, T. A. A.; Almaghrabi, O. A.; Albishri, H. M. (2022).** Detection and comparison of flavonoid derivatives in *Citrullus lanatus* and *Cucumis melo* plants using HPLC-ESI-MS/MS. *J. Agri. Food Chem.* (Under Review).

3. **Al-Zahrani H. S.**; **Moussa, T. A. A.; Almaghrabi O. A.; Mohamed A. A.; Abdelmoneim T. S.; Fuller M. P. (2022).** Characterizing the soil bacterial communities of Mecca region, Saudi Arabia using 16S rRNA gene-based metagenomics. *Peer J.* (**IF 2.18**).

Abstracts in Conferences

1. **El-Abyad, M. S.; Abu-Taleb, A. M. and Moussa, T. A. A. (1993).** Impact of salinity stress on the response of host cultivar to cell wall-degrading enzymes of *Rhizoctonia solani* Kühn and *Sclerotium rolfsii* Sacc. *in vivo* and *in vitro*. 6th International Congress of Plant Pathology, 28 July-6 August 1993, National Research Council Canada, **Montreal, Canada.**
2. **Moussa, T. A. A. and Abo-Ellil, A. H. (2004).** Inhibitory effects of camel urine on pathogenic fungi. 11th International Conference of Union of Arab Biologists, 7-9 September 2004, Faculty of Science, Cairo University, **Cairo, Egypt.**
3. **Moussa, T. A. A. (2007).** Optimization of the induction factors of xylanase and β-xylosidase from sugarbeet pathogen *Sclerotium rolfsii*. 3rd Saudi Scientific Conference

"New Horizons in Science and their Applications." 10-13 March 2007. Faculty of Science, King Saud University, **Riyadh, Kingdom of Saudi Arabia.**

4. **Moussa, T. A. A. (2007).** Molecular characterization of xylanase enzyme secreted by *Sclerotium rolfsii*. 6th SESAME Users' Meeting. 17-19 November 2007. SESAME Jordanian National Committee, **Amman, Jordan.**
5. **Moussa, T. A. A.; Samhan, F. A.; El-Senousy, W. M.; El-Taweel, G. E.; Rashed, M. A. (2008).** Salmonella presence in raw river Nile water. 3rd International Conferences of Environmental Research Division "Environmental Science and Technology" 1-3 April 2008**,** National Research Center, **Cairo**, **Egypt.**
6. **El-Lathy, M. A.; El-Taweel, G. E.; El-Sonosy, W. M.; Samhan, F. A. and Moussa, T. A. A. (2009).** Determination of pathogenic bacteria in wastewater using conventional and PCR techniques. 1st International Conference on "Biotechnology and Environmental Safety" 14-16 April 2009, National Research Centre, **Cairo, Egypt.**
7. **Saker, M. M.; Abo Ellil, A. H.; Moussa, T. A. A.; Abdel-Rahman, R. M. H. (2009).** Development of efficient regeneration system for potato transformation. 3rd International Conference of Genetic Engineering and Biotechnology Research Division "Biotechnology for Better Life" 3-5 November 2009, National research Centre, **Cairo, Egypt.**
8. **Moussa, T. A. A.; Ahmed, G. M.; Abdel-Hamid, S. M.-S. (2010).** Mathematical model for biomass yield and biosurfactant production by *Nocardia amarae*. 4th International Conference on Applied Mathematics, Simulation, Modeling (ASM'10), July 22-25, 2010, **Corfu Island, Greece**.
9. **Moussa, T. A. A.; Saker, M. M.; Heikal, N. Z.; Abo ELLil, A. H.; Abdel-Rahman**, **R. M. H. (2010).** Efficient transformation system for fungal disease resistance in potato**.** 1st International Biotechnology Innovation Conference. Faculty of Science, Cairo University 21-23 November 2010, Cairo University, **Cairo, Egypt.**
10. **Samak, N. A.; Moussa, T. A. A.; Mohamed, M. S. (2013).** Production and characterization of di-rhamnolipid produced by *Pseudomonas aeruginosa* TMN. International Symposium on Emerging Pollutants in Irrigation Waters: Origin, Fate, Risks and Mitigation. Organized by Technical University of Braunschweig (TUBS, Germany), the National Research Institute for Rural Engineering, Water, and Forestry (INRGREF, Tunisia) and the Higher Institute of Agronomy Chatt Meriem (ISA CM, Tunisia). November 25-28 2013, **Alhambra Thalasso, Tunisia.**
11. **Moreno, L. F.; Stielow, B.; de Souza, E. M.; Cruz, L. M.; Vicente, V. A.; Moussa, T. A. A.; Al-Zahrani, H. S.; Almaghrabi, O. A.; De Hoog, G. S. (2015).** Cytochrome P450

in black yeasts: a comparative genomic approach for understanding niche adaptation. **Genomics of Neglected Pathogens**, 20-21 April, 2015,CBS-KNAW Fungal Biodiversity Centre, **Utrecht, The Netherlands.**

12. **Ouf, S. A.; Moussa, T. A. A.; Eltahlawi, S.M.R.; Abd-Elmegeed, A.S.M. (2015).** Mycological Study of Dermatomycosis in Population of Cairo, Egypt. International MacroTrend Conference on Medicine, Science, and Technology, 28-29 December, 2015, **New York, NY, USA.**