



# Essam K. Ghareeb

## POSITION

### Personal Data

Nationality | Egyptian

Date of Birth | 10-10-1979

Department | Biology

Official UoD Email | [ekghareeb@iau.edu.sa](mailto:ekghareeb@iau.edu.sa)

Cell Phone No. | 0563533550

### Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	Excellent	Excellent	V. good

### Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2011	PhD	Egypt	Applied Microbiology
2006	MSc	Egypt	Microbiology
2002	BSc	Egypt	Microbiology

### PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

<b>PhD</b>	"Studies on fibrinolytic enzymes produced by some bacterial isolates"
<b>Master</b>	"Characterization of Proteases Produced by Certain Local Bacterial Isolates"

### Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Associate Professor of Microbiology	Department of Biology	Faculty of Science, Dammam city	IAF University	From Dec 2016 till present.
A. Professor of Microbiology	Department of Microbiology and Botany	Faculty of Science	Zagazig University	From Aug 2016 till present.
Lecturer and researcher of Microbiology	Department of Microbiology and Botany	Faculty of Science	Zagazig University	from 28/6/2011 till 2/1/2016.



Assistant Lecturer and Researcher of Microbiology	Department of Microbiology and Botany	Faculty of Science	Zagazig University	From 14/9/2006 till 27/6/2011
Demonstrator of Microbiology	Department of Microbiology and Botany	Faculty of Science	Zagazig University	From 17/12/2002 till 13/9/2006

### Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date

### Scientific Achievements

#### Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Essam Kotb (2018)	Production, purification and partial characterization for an oxalate decarboxylase (OxDcase) from the probiote Lactobacillus plantarum KSK-II.	Current Science (00113891) 114(4):835-844. DOI: 10.18520/cs/v114/i04/835-844.
2	Essam Kotb (2017)	Microbial fibrinolytic enzyme production and applications.	Book: Microbial functional foods and nutraceuticals. Edited by Vijai K. Gupta. John Wiley & Sons, Ltd.
3	Essam Kotb (2016)	Improvement of uricase production from Bacillus subtilis RNZ-79 by solid state fermentation of shrimp shell wastes.	Biologia, Section Cellular and Molecular Biology 71(3). 229–238. DOI: 10.1515/biolog-2016-0040.
4	Essam Kotb, Gamal El-Deen A. Helal and Faten M. Edries (2015)	Screening for fibrinolytic filamentous fungi and enzymatic properties of the most potent producer, Aspergillus brasiliensis AUMC 9735	Biologia, Section Cellular and Molecular Biology 70/12: 1565–1574. DOI: 10.1515/biolog-2015-0192.
5	Essam Kotb (2015)	Characterization of a thermostable uricase isolated from Bacillus firmus DWD-33 and its application for uric acid quantification in human serum.	Protein and Peptide letters, 22(5): 402–409, DOI: 10.2174/092986652205150509213536.
6	Essam Kotb (2015)	The biotechnological potential of subtilisin-like fibrinolytic enzyme from a newly isolated Lactobacillus plantarum KSK-II in 7blood destaining and antimicrobials.	Biotechnology Progress, 31(2): 316–24, DOI: 10.1002/btpr.2033.



7	Essam Kotb (2015)	purification and partial characterization of serine fibrinolytic enzyme from <i>Bacillus megaterium</i> KSK-07 isolated from Kishk, a traditional Egyptian fermented food.	Applied Biochemistry and Microbiology, 51(1): 34–43, DOI: 10.1134/S000368381501007X.
8	Essam Kotb (2014)	The biotechnological potential of fibrinolytic enzymes in the dissolution of endogenous blood thrombi.	Biotechnology Progress, 30(3): 656–672, DOI: 10.1002/btpr.1918.
9	Essam Kotb (2014)	Purification and partial characterization of a chymotrypsin-like serine fibrinolytic enzyme from <i>Bacillus amyloliquefaciens</i> FCF-11 using corn husk as a novel substrate.	World Journal of Microbiology and Biotechnology, 30(7): 2071–2080, DOI: 10.1007/s11274-014-1632-1.
10	Essam Kotb, Maher I. Abouel-Hawa, Eman Y. Tohamy and Khaled El-Msalamy (2013)	Purification of toxic protease from <i>Brevibacterium oitidis</i> KB76 with both metal and hydrosulfuryl at the active site.	Biologia, Section Cellular and Molecular Biology 68(5): 797–802, DOI: 10.2478/s11756-013-0224-0.
11	Essam Kotb (2013)	Activity assessment of microbial fibrinolytic enzymes.	Applied Microbiology and Biotechnology, 97(15): 6647–6665, DOI: 10.1007/s00253-013-5052-1.
12	Essam Kotb (2012)	Fibrinolytic bacterial enzymes with thrombolytic activity.	Book: Springer Publishing, SpringerBriefs in Microbiology. ISBN: 978-3-642-24979-2, ISBN: 978-3-642-24979-2 (Print) 978-3-642-24980-8.
13	Sadeek A. Sadeek, Wala H. El-Shwiniy, Wael A. Zordok and Essam Kotb (2011)	Spectroscopic studies, thermal analyses and biological evaluation of new V(IV), Zr(IV) and U(VI) moxifloxacin complexes.	Journal of Molecular Structure, 1006 (1–3): 192–209, DOI:10.1016/j.molstruc.2011.09.009.
14	Essam Kotb (2011)	Toxigenic bacterial proteases and their inhibitors	Book. Lambert Academic Publishing, Germany. ISBN-10: 3843391769, ISBN-13: 978-3843391764.
15	Wesam A. Hassanein, Essam Kotb, Nadia M. Awany and Yehia A. El-Zawahry (2011)	Fibrinolysis and anticoagulant potential of a metallo protease produced by <i>Bacillus subtilis</i> K42.	Journal of Biosciences, 36(5): 773–779, DOI: 10.1007/s12038-011-9151-9.

#### Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date
1	Essam Kotb, Yehia A. El-Zawahry and Ghadeer Saleh.	Isolation of a putative virulence agent, cytotoxic serine-elastase from a newly isolated <i>Pseudomonas aeruginosa</i> ZuhP13.	Journal of Biosciences, in progress.	2 Oct 2018

#### Scientific Research Papers Presented to Refereed Specialized Scientific Conferences



#	Name of Investigator(s)	Research Title	Conference and Publication Date
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#### Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	Amany Alquosaibi, Essam Kotb, Amal Mahmoud and Ibtessam Aldouyan	Yeast as cell factory expression system for the production of commercial alkaline protease	Awarded under the number, SCI-113-2017.
2	Ehab Moustafa, Essam Kotb, Amira Abdelaal, et al.	Ultrasound-Enhanced Electrochemical Advanced Oxidation Process: Towards Green Label and Efficient Pollutants Removal Technologies	Awarded 2018.

#### Current Researches

#	Research Title	Name of Investigator(s)
1	Chelation of iron nanoparticles with pyoverdine siderophores for control of an antibiotic resistant <i>Pseudomonas aeruginosa</i> DAM16	Essam Kotb, Tawfik A. Saleh, Afnan M. Ajeebi, Mona S. Al-Gharsan, and Nora F. Aldamash
2	Partial characterization of alkaline protease from <i>Bacillus subtilis</i> Zah9	Amany Alquosaibi, Essam Kotb, Amal Mahmoud

#### Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	The 1st International Biotechnology Innovation Conference (IBIC-Egypt 2010),	Faculty of Science, Cairo University 21-23 November 2010, Cairo, Egypt.	Oral presentation
2	The 2nd International Workshop on Industrial Biotechnology, Organized by the Arab Biotechnology Association of the Federation of Arabic Scientific Research Councils in cooperation with the Academy of Scientific Research & Technology and the National Research Center. Cairo, Egypt.	Conference center, Cairo University, 20-21 July 2011.	Oral presentation
3	The 4th Annual Dawadmi General Hospital Conference (Update in Acute Abdomen	2-3 April 2014. Accredited by the Saudi Commission for Health Specialists with accreditation No.40803/2014.	Oral presentation



	Diseases),		
4	The 9th international conference of environmental sciences.	Faculty of Science, Zagazig University 25-27 June 2014, Zagazig, Egypt.	Oral presentation
5	The 10th international conference of environmental sciences.	Faculty of Science, Zagazig University 25-27 July 2015, Zagazig, Egypt.	Attendance
6	The 1st international workshop on genomic approaches in a modern laboratory diagnosis.	Organized by UPMU of the Academy of Scientific Research and Technology, 22-23 December 2015, Cairo, Egypt.	Attendance
7	The 1st international conference of infectious diseases in human and animals.	Organized by UPMU of the Academy of Scientific Research and Technology, 18-20 December 2016, Zagazig, Egypt.	Oral presentation
8	Workshop on scientific references management using endnote software.	Organized by UPMU of the Academy of Scientific Research and Technology, 9 Jan 2016, Zagazig, Egypt.	Attendance
9	Workshop on "Molecular Identification & Validation of Novel Species of Bacteria"	26 Mars 2017, Dammam, KSA.	Attendance
10	The 1st international workshop on genomic approaches in a modern laboratory diagnosis.	22-23 December 2015. Organized by UPMU of the Academy of Scientific Research and Technology, Cairo, Egypt.	Attendance

#### Membership of Scientific and Professional Societies and Organizations

- International Society for Fibrinolysis and Proteolysis (ISFP, Belgium)
- The European Society of Clinical Microbiology and Infectious Diseases (ESCMID, Switzerland)
- Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEES).
- Applied Microbiology Society.
- The Egyptian Society of Biotechnology.
- The Egyptian Academy of Science.
- Faculty Members Syndicate of Egyptian Universities.

#### Teaching Activities

##### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Bacteriology	344	Theoretical lectures
2	Biotechnology	435	Theoretical lectures
3	Immunology	442	Theoretical lectures
4	Physiology of Bacteria	456	Theoretical lectures
5	Microbial Metabolism	423	Theoretical lectures
6	Medical Microbiology	354	Theoretical lectures
7	Food Microbiology	387	Theoretical lectures



8	Applied microbiology	346	Theoretical lectures
9	General microbiology	307	Theoretical lectures
10	Mycology	410	Theoretical lectures
11	Virology	345	Theoretical lectures
12	General biology	204	Theoretical lectures

**Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)**

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**Postgraduate**

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Microbial biotechnology	572	Theoretical lectures and practical labs
2	Food microbiology	531	Theoretical lectures
3	Microbial physiology	512	Theoretical lectures
4	Advanced studies in mycology	576	Theoretical lectures and practical labs

**Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)**

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**Course Coordination**

#	Course Title and Code	Coordination	Co-coordination	Undergrad.	Postgrad.	From	to
1	Microbial biotechnology	√			√	2017	2018
2	Advanced studies in mycology	√			√	2017	2018
3	General microbiology	√		√		2017	
4	Mycology	√		√		2018	
5	Basics of immunology	√		√		2017	2018

**Guest/Invited Lectures for Undergraduate Students**

#	Activity/Course Title and Code	Subject	College and University or Program	Date
1	Efficiency of nanoparticles as antimicrobials against antibiotic resistant bacteria	General lecture	Talent enrichment program	2018

**Student Academic Supervision and Mentoring**

#	Level	Number of Students	From	To
1	7-8	7+7+2 graduate research	2017	2018
2	Graduate	4 lab trainers	2017	2018



### Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	PhD	Preparation of nanoparticles from some herbal extracts and their effect on food poisoning bacteria	Ain Shams University, Egypt	2011
2	PhD	Studies on fibrinolytic fungal enzymes with thrombolytic activity.	Zagazig University, Egypt	2011
3	MSc	Cholesterol assimilation by selected local microorganisms.	Zagazig University, Egypt	2012
4	MSc	Microbiological and biochemical studies on toxic proteases of <i>Pseudomonas aeruginosa</i> isolated from clinical specimens.	Zagazig University, Egypt	2015
5	MSc	Microbiological and biochemical studies on lecithinases produced by some pathogenic bacteria.	Zagazig University, Egypt	2015
6	MSc	Microbiological studies on siderophores producing bacteria.	Zagazig University, Egypt	2014
7	MSc	Microbiological and biochemical studies on calcium oxalate crystals dissolution by some bacterial types.	Zagazig University, Egypt	2014
8	MSc	Microbial degradation of calcium oxalate by selected lactobacilli.	Zagazig University, Egypt	2014
9	PhD	<i>Helicobacter pylori</i> gastric infections: isolation and in vitro eradication of the pathogen.	Zagazig University, Egypt	2012
10	PhD	In-vitro Inhibition studies on coagulases of <i>Staphylococcus aureus</i> isolated from clinical infections.	Ain Shams University, Egypt	2014
11	MSc	Microbiological studies on urate degrading bacteria.	Zagazig University, Egypt	2012
12	PhD	<i>Bifidobacteria</i> antagonistic actions against selected gastrointestinal tract pathogenic microbiota.	Zagazig University, Egypt	2015

### Ongoing Research Supervision



#	Degree Type	Title	Institution	Date
1	MSc	To be submitted by the end of this year for the student: Mashaal Almahawish	IAF University	2018
2	MSc	To be submitted by the end of this year for the student: Mariam El-Sayed	IAF University	2018

**Administrative Responsibilities, Committee and Community Service  
(Beginning with the most recent)**

**Administrative Responsibilities**

#	From	To	Position	Organization

**Committee Membership**

#	From	To	Position	Organization

**Scientific Consultations**

#	From	To	Institute	Full-time or Part-time

**Volunteer Work**

#	From	To	Type of Volunteer	Organization

**Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)**

1	Microsoft office
2	Spss
3	Endnote
4	Mendeley

**Last Update**

20/Oct/2018