



FACULTY FULL NAME: Dr. Ibtisam Mohammed Ababutain

Associate Professor in Microbiology

POSITION: Vice Dean of Studies, Development and Community Service – College of Science – Imam Abdulrahman Bin Faisal University

### Personal Data

Nationality | Saudi  
Department | Biology  
Official Email | [iababutain@iau.edu.sa](mailto:iababutain@iau.edu.sa)  
Personal Email | [dr.king2007@hotmail.com](mailto:dr.king2007@hotmail.com)

### Language Proficiency

Language	Read	Write	Speak
Arabic	Native language	Native language	Native language
English	V. Good	V. Good	V. Good
Others	-	-	-

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

Date	Academic Degree	Place of Issue	Address
22/05/1427 18/06/2006	PhD	College of Science- King Faisal University	Dammam city Kingdom of Saudi Arabia
26/07/1417 07/12/1996	Master	University of Bradford	United kingdom
11/03/1410 10/10/1989	Bachelor	College of Science for Girls	Dammam city Kingdom of Saudi Arabia

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

<b>PhD</b>	Studies on Biodegradation of Insecticides by Soil Microorganism
<b>Master</b>	Properties of <i>PREVOTELLA INTERMEDIA</i> and <i>PREVOTELLA NIGRESCENS</i> , which may play a role in colonization of oral sites



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

Job Rank	Place and Address of Work	Date
Associate Professor	College of Science	13/12/2012 to date
Assistant Professor	College of Science	27/03/2006
Lecturer	College of Science for Girls	07/10/1998

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

Administrative Position	Office	Date
Vice Dean for Studies, development and community service	College of Science	2018-2019 To Date
Vice Dean of Quality, development and Academic Accreditation	College of Science	2014-2015/2018-2019
Head of the Biology Department	College of Science	2013-2014
Assistant Head for the Alumni and Career development center	Imam Abdulrahman bin Faisal University	2016-2017/2018-2019

## Scientific Achievements

### Published Refereed Scientific Researches

(In Chronological Order Beginning with the Most Recent)

#	Name of Author (s)	Research Title	Publisher and Date of Publication
1	<b>Ibtisam Mohammed Ababutain</b>	Antimicrobial Activity and Gas Chromatography-Mass Spectrometry (GC-MS) Analysis of Saudi Arabian <i>Ocimum basilicum</i> Leaves Extracts	<b>2019.</b> Journal of Pure and Applied Microbiology, Vol. 13(2): 823-833.
2	Azzah Ibrahim Alghamdi and <b>Ibtisam Mohammed Ababutain*</b>	Phytochemical Screening and Antibacterial Activity of <i>Eucalyptus camaldulensis</i> 's Leaves and Bark Extracts	<b>2019.</b> Asian Journal of Scientific Research, Vol. 12: 202-210.
3	Amal Aljuraifani*, Sahar Aldosary, <b>Ibtisam Ababutain</b>	In Vitro Antimicrobial Activity of Endophytes, Isolated from <i>Moringa peregrina</i> Growing in Eastern Region of Saudi Arabia	<b>2019.</b> National Academy Science Letters, Vol. 42(1):75-80



4	<b>Ibtisam M. Ababutain*</b> and Azzah I. Alghamdi	Phytochemical analysis and antibacterial activity of <i>Vitex agnus-castus</i> L. leaf extracts against clinical isolates	<b>2018.</b> Asia Life Sciences, Vol. 27 (1): 11-20.
5	<b>Ibtisam M. Ababutain</b>	Antimicrobial Activity and Phytochemical Screening of Sarcocolla Gum Resin	<b>2017.</b> Pakistan Journal of Biological Sciences, Vol. 20: 571-576.
6	<b>Ibtisam M. Ababutain</b>	Comparing the antibacterial activity and phytochemical components of three most commonly used oleo-gum-resin in Saudi Arabia	<b>2017.</b> Journal of Food, Agriculture & Environment, Vol.15 (3&4): 61-65
7	Azzah Alghamdi, Magda ElBendary, Amira AlAbdalall and <b>Ibtisam M. Ababutain*</b>	Petroleum oil biodegradation potential of some isolated bacteria from Saudi Arabia	<b>2017.</b> Journal of Food, Agriculture & Environment, Vol.15 (3&4): 61-66
8	Ibtisam M. Ababutain	Anti-probiotic effect of sweet basil ( <i>Ocimum basilicum</i> L.) leaf extract	<b>2017.</b> Asia Life Sciences, Vol. 26(2): 219-228
9	Lulwah AlFuraih, <b>Ibtisam M. Ababutain*</b> , Azzat AbdelKhalek and Ahmed AbdelSalam	Effect of different microencapsulation materials on stability of <i>Lactobacillus plantarum</i> DSM 20174	2016. African Journal of Biotechnology Vol. 15(24):1207-1216
10	<b>Ababutain M. Ibtisam.</b>	Impact of solvent type on antibacterial activities of <i>Lawsonia inermis</i> leaves.	<b>2015.</b> Journal of Food, Agriculture & Environment Vol.13 (1): 51-53.
11	<b>Ababutain M. Ibtisam*</b> , Abdulaziz Zeinab and ALMeshhen Nijla.	Optimization of environmental and nutritional conditions to improve growth and antibiotic productions by <i>Streptomyces</i> Sp. Isolated from Saudi Arabia Soil.	<b>2013.</b> International Research Journal of Microbiology. Vol.4 (8): 179-187.
12	<b>Ababutain M. Ibtisam</b>	Effect of some ecological factors on the growth of <i>Aspergillus niger</i> and <i>Cladosporium sphaerospermum</i> .	<b>2013.</b> American Journal of Applied Sciences, Vol.10 (2):159- 163.
13	<b>Ababutain M. Ibtisam.</b>	Aeromycoflora of some eastern provinces of Saudi Arabia.	<b>2013.</b> Indoor and Built Environment. Vol. 22(2): 388-394
14	<b>Ababutain M. Ibtisam*</b> , Abdul Aziz Zeinab and ALMeshhen Nijla.	Lincomycin antibiotic biosynthesis produced by <i>Streptomyces</i> sp. Isolated from Saudi Arabia soil: II- extraction, separation and purification of Lincomycin.	<b>2012.</b> Canadian Journal of pure and applied sciences, Vol. 6(2): 1905-1911.



15	<b>Ababutain M. Ibtisam*</b> , Abdul Aziz Zeinab and ALMeshhen Nijla	Lincomycin antibiotic biosynthesis produced by Streptomyces sp. Isolated from Saudi Arabia soil: I – Taxonomical, antimicrobial and insecticidal studies on the producing organics.	<b>2012.</b> Canadian Journal of pure and applied sciences, Vol. 6(1):1739-1748.
16	<b>Ababutain M. Ibtisam.</b>	Antimicrobial Activity of Ethanolic Extracts from Some Medicinal Plant.	<b>2011.</b> Australian Journal of Basic and Applied Sciences, Vol. 5(11): 678-683.
17	<b>Ababutain M. Ibtisam.</b>	Studies on the diversity of Mycoflora associated with spotted leaves of Date Palm.	<b>2009.</b> Scientific Journal of King Faisal University-Basic and Applied Sciences. Vol. 10(2): 1-16.
18	<b>Ababutain, M. Ibtisam;</b> Barakah, F.N and Heggo, A.M*.	Effect of Pesticides (Lannate and Diazinon) on Growth and Activity of Soil Free Living Nitrogen Fixing Bacteria.	<b>2009.</b> Journal of. K Saudi Soc. For Agric. Sci. Vol. 8(1): 40-52.
19	<b>Ababutain, M. Ibtisam;</b> Barakah, F.N and Heggo, A.M*.	Effect of some Pesticides on soil Microorganisms growth in soil with organic matter.	<b>2008.</b> Alexaneria Science Exchange Journal, Vol. 29 (4):38-53.
20	Barakah, F.N; <b>Ababutain M. Ibtisam</b> and Heggo A.M*.	Effect of lannite and diazinon pesticides on some soil Microorganisms.	<b>2007.</b> Alexaneria Science Exchange Journal, Vol. 28 (1):38-53.

### Research accepted for publication

#	Name of Author (s)	Research Title	Journal Name	Date of acceptance
1	-	-	-	-
2	-	-	-	-

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Imen Massoudi, Ridha Hamdi, Ibtisam Ababutain, Ethar Alhussain and Aya Kharma	The activity of zinc oxide nanoparticle synthesized by milling against human pathogenic microorganisms	1 <sup>st</sup> regional virtual symposium on physyc advances – Bahrain University 28-29/06/2020



2	Azzah Alghamdi, Magda ElBendary, Amira AlAbdalall and Ibtisam M. Ababutain	The possibility of biological analysis of petroleum oil by some bacteria isolated from Saudi Arabia and its ability to produce surface tension materials	The 32 <sup>nd</sup> Meeting of Saudi Biological Society: human and Environmental Development in Vision 2030. Makah-Umm-Alqura University 18-20/April/2017
3	Azzah Alghamdi, Amira AlAbdalall, Magda ElBendary, and Ibtisam M. Ababutain	Study the ability of a mixture of the selected bacterial strains in the analysis of petroleum oil and the effect of some physiological factors on them	The 1 <sup>st</sup> Saudi Conference on the Environment. Abha- King Khalid University 7-9/ March/ 2016
4	Ibtisam M. Ababutain, Lulwah AlFuraih, Azzat AbdelKhalek and Ahmed AbdelSalam	Preparation of functional food containing encapsulated probiotic bacteria	The 12th Egyptian Dairy Science & Technology Conference. Egyptian Dairy Science Association - Egypt – Cairo 9-11 / November / 2015

### Completed research Projects

#	Name of Author (s)	Research Title	Date of Publication
-	-	-	-
-	-	-	-

### Current Researches

#	Research Title	Name of Author (s)
1	Identification and antibacterial characterization of endophytic fungi from <i>Artemisia sieberi</i>	<b>Ibtisam Mohammed Ababutain*</b> , Sahar Khamees Aldosary, Amal Abdulaziz AlJuriafani, Azzah Ibrahim Alghamdi, Amira Hassan Alabdall, Eida Marshid Al-Khaldi, Sumayh A Aldakeel, Noor B Almandil, Sayed AbdulAzeez, J. Francis Borgio
2	The activity of zinc oxide nanoparticle synthesized by milling against human pathogenic microorganisms	Imen Massoudi*, Ridha Hamdi, <b>Ibtisam Ababutain</b> , Ethar Alhussain and Aya Kharma
3	<i>In vitro</i> anticandidal activity and gas chromatography-mass spectrometry (GC-	<b>Ibtisam M. Ababutain*</b> and Azzah I. Alghamdi



	MS) screening of <i>Vitex agnus-castus</i> leaves extracts	
4	Efficient Pollutants Removal Technologies Project Number: 2018-110-Sci	Hesham Elkomy*, <b>Ibtisam Ababutain</b> and Others.
5	Plant in high saline ecosystem Project Number: 2019-363-SCi	Hesham Elkomy*, Ibtisam Ababutain and Others

#### Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	International Conference on Education and Training Evaluation 2020	Education and Training Evaluation Commission 14-15/10/2020	Attendance - online
2	The first Arab summit for self-development Under the slogan back to the inside	kingdom of Bahrain 26/07/2020	Attendance - online
3	1 <sup>st</sup> regional virtual symposium on physic advances – Bahrain University	kingdom of Bahrain 28-29/06/2020	Poster - online
4	The final program of Online Meeting on Medicinal Plants: Traditional Botany to Research to Pharmacy and Industry	MedPlants-2020 30/06/2020	Attendance - online
5	The 4 <sup>th</sup> Saudi International Nanotechnology Conference (SCNC 2016)	Dhahran- King Fahd University of Petroleum and Minerals 25-27/10/2016	Attendance
6	1 <sup>st</sup> Annual Scientific Research update: Medicine and Biomedical Research 2015	Dammam – University of Dammam 16-18/05/ 1436 5-7/ 04/ 2015	Attendance
7	Conference of the twenty-ninth meeting of the Saudi Society for Life Sciences entitled	Sheraton Hotel – Dammam 25-27/02/2014	Rapporteur of the Committee



	(Environment and Development in the Gulf)		
8	Conference (Fourth Palm Symposium) in Saudi Arabia	King Faisal University 5-8/05/2007	Attendance

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

- Association of Agricultural Sciences of King Saud University.
- Saudi Society for Medical Microbiology and Infectious Diseases.
- Life Sciences Society of King Saud University.

#### Teaching Activities

##### Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Microbiology Physiology	N413	15 lectures, 12 labs
2	Economical plant	N422	15 lectures
3	Bacteria and viruses	BIOL 221N	15 lectures, 12 labs
4	General Biology	BIOL 101N	15 lectures, 12 labs
5	Graduation research	N427	15 lectures
6	Fungi and algae	BIOL 332N	15 lectures, 12 labs
7	Health & Fitness	HTFT 151S	15 lectures
8	Research Project	BIOL448N	15 lectures
9	Bacteriology	N224	12 labs
10	Microbiology	MICRO 307	12 labs and 15 lectures
11	Fundamentals of Ecology	BIOL 207	13 labs
12	Microtechnique	BIOL 501	13 labs

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

1	<p><b>N413 Physiological Microbiology</b> Introduction to Microbiology and Physiological Basis of Microbiology Classification. Autotrophic - Algae - Bacteria - Autotrophic bacteria - Self-feeding bacteria. Energy sources for these organisms, sources of conversion of light energy to chemical energy, stabilization of carbon dioxide (similarities and differences between bacteria and algae), non-self-feeding throw bacteria, and energy sources. Metabolism of carbohydrates (simple and complex), different ways of converting these substances to the material of the organism, the importance of NADH-ATP in metabolism and construction, the composition of these two compounds, their chemical and physical properties, breathing in microorganisms Carbs</p>
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	cycle with reference to the nature of this cycle in the absence of oxygen, cycle Glycosylate, microorganism growth on finite and unlimited plants, nutritional requirements for microorganisms, fermentation, nitrogen metabolism.
2	<b>Economic Plant N422</b> General idea about the economic plants in the world and the most important products. Effective and inactive ingredients.
3	<b>Bacteria and viruses BIOL 221N</b> In this course the student defined the classification of the bacteria from the taxonomic in microorganisms, as well as recognize the importance of bacteria and viruses, and some applied fields for them, and practical skills to isolate bacteria and cultivated in vitro methods (bacteria used is not pathogenic) also the most important bacterial genera and species viral, and the most important Genus and types of both and economic and medical importance of them. Physical and chemical factors affecting bacterial growth. Also recognize the cycle of the virus within the host. viruses and Immunology
4	<b>General biology BIOL 101N</b> An introductory biology course with lab for preparatory general level. The major emphasis is on cell biology in plant and zoology including cell structure, organization and division. Illustrating concepts and principles of basic structure and function, genetics and ecology. Also, it is an integrated study of basic concepts concerning living organisms (plant and animals). Emphasis on diversity of living organisms, morphology, limited reproductive cycles, taxonomy and physiology.
5	<b>Graduation Research N427</b> Practical or theoretical lessons in plant and microbiology, introducing the student to the method of scientific research and different methods and collecting data, analysis and preparation of reports in the field of plant and microbiology.
6	<b>Fungi and algae BIOL 332N</b> This course will provide studies of different methods of asexual and sexual reproduction in fungi and algae; in addition, to identify their cell structures. Moreover, it will focus on identifying the differences between their different classes'. Also, through a combination of lecture, this course will emphasis on the economic importance of fungi and algae in addition to determine their morphology and internal structure
7	<b>Health &amp; Fitness HTFT 151S</b> Recognize the concept of public health and types. Distinguish the rules of health protection. The students will aware of the most important non-communicable diseases, which affect health directly. Also aware of the concept of integrated nutrition and the role of food in the body building and protect him from disease. The sources of danger in requesting food. The necessary skills to conduct simple first aid in the event of accidents or injuries. Recognize generally forms of psychological pressure, sources and how to handle them. The negative effects of smoking, drugs and alcohol on health and social aspects of the individual.
8	<b>Bacteriology N224:</b> Study of optical microscopy and use of oily lens, examination of bacterial slices, and examination of colonies of developing bacteria on hard media and study the external shape of them, preparation of artificial media, the study of methods of sterilization by wet heat, dry heat, radiation, filtration. Incubation methods, simple dye, compound dye, acid resistant





	dye, dye germs and dye whip. Estimation of bacterial cell count and isolation. Grow the anaerobic bacteria.
9	<b>Microbiology MICRO 307:</b> This course provides an introduction to microbiology. It describes: diversity and taxonomy of microorganisms; microbial cell structure and function, microbial growth and metabolism, principles of microbial genetics including DNA and RNA structures, replication, different forms of mutation and mutagenic agents. It also covers the applications of microorganisms in industry and environment.
10	<b>Microtechnique BIOL 501:</b> This course aims at presenting students with an introduction to the techniques of microscopy and their applications in biology. In addition, students gain hands-on experience in the preparation of whole mounts, smears, and permanent glass slides in both plant and animal tissues (from fixation to staining).

### Teaching Activities

#### Postgraduate

#	Course Name	Course Code	Contribution field
1	Environmental Microbiology (Advanced)	MICR 501	Teaching the theoretical part
2	Research Methods	MICRO 502	Teaching the theoretical part
3	Advanced studies in bacteriology	MICRO 575	Teaching the theoretical and practical part
4	Research Methods	BIOL 570	Teaching the theoretical part

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

1	<b>Environmental Microbiology (Advanced) MICR 501</b> Acidic environments and biodiversity in microorganisms. Interactions between microorganisms, the environment of thermal and superheated microbes and mechanisms for thermal stability (protein-cell wall DNA), root zone and interaction between plants and soil microbes.
2	<b>Research Methods MICRO 502</b> Theoretical lessons in microbiology, introducing the student to the scientific research method and its different methods, collecting and analyzing data and preparing reports in the field of microbiology.
3	<b>Advanced studies in bacteriology MICRO 575</b> Introduce postgraduate students to the most important classification and physiological studies in bacteriology. Reviewing; modern international researches, practical, and theoretical significance. It is important for students to master research methods for information, practical experiments assessment, and writing reports.
4	<b>Research Methods BIOL570</b> Introducing the student to the scientific research method, collecting and analyzing data and preparing reports in the field of biology sciences.

#### Academic Advising for Students

#	Stage	Number of students	from	to
1	Masters	3	1434	1435
2	Doctorate	4	1434	1435
3	Bachelor	12	1431	1434



### Supervision of Master and/or PhD Thesis

#	Degree Type	Title	Institution	Date
1	Master	Use the capsule in the protection of probiotics to produce functional foods	University of Dammam	1433/11/22 1434/08/07
2	Master	Biosynthesis of Silver Nanoparticles by Industrial Soil Isolate from the Eastern Province of Saudi Arabia	Imam Abdulrahman bin Faisal University	1439/1/1 To date

### Administrative Responsibilities, Committee and Community Service

(Beginning with the most recent)

#### Administrative Responsibilities

#	Position	Organization	From	To
1	Member of College Council	College of Science	2014-2015	To Date
2	Member of Biology Department Council	Biology Department	2007-2008	To Date

### Membership of committees

#	Committees	Position	From	To
1	Advisory Committee for the Management of Study Plans and Programs, <b>Imam Abdulrahman Bin Faisal University</b>	Member	2016-2017	To Date
2	External Advisory Committee, <b>College of Science</b>	Member	2014-2015	To Date
3	Alumni and Career Development office <b>College of Science</b>	Head of the office	2013-2012	To Date
4	Committee for the preparation of descriptions of bachelor programs courses, <b>Department of Biology, College of Science.</b>	Member	2014-2015	2015-2016
5	Sub-Academic Follow-up Committee, <b>College of Science</b>	Member	2014-2013	2014-2015
6	Committee for the preparation of descriptions of postgraduate programs (Master), <b>Department of Biology, College of Science.</b>	Member	2013-2012	2014-2015
7	Advisory Committee of the Alumni and Career Development Center,	Member	2011-2012	2013-2014



	<b>Dammam University</b>			
8	Registration and Academic Advising and Transformers Committee, <b>Department of Biology, College of Science.</b>	Head of Committee	2011-2010	2011-2012
9	Extracurricular Activity Office, <b>College of Science.</b>	Head of Committee	2008-2009	2009-2010

#### Scientific Consultations

#	From	To	Organization	Full time - Part time
1	30/07/2020	16/08/2020	Plant cell biotechnology and molecular biology	Part time
2	19/05/2017	02/06/2017	African Journal of Agricultural Research	Part time
3	28/11/2016	02/12/2016	Agricultural Science Research Journal	Part time
4	09/09/2016	24/09/2016	African Journal of Biotechnology	Part time
5	14/01/2016	20/02/2016	Indoor and Built Environment	Part time
6	30/01/2012	09/02/2012	British Biotechnology Journal	Part time
7	2015	2015	International Journal of Applied Microbiology and Biotechnology Research	Part time
8	2015	2015	African Journal of Plant Science	Part time
9	2013	2013	International Journal of Biotechnology and Food Science	Part time
10	2013	2014	College of Hafr Al-Batin - University of Dammam previously	Part time

#### Volunteer Work

#	From	To	Type of Volunteer	Organization
1	02/04/2019	02/04/2019	Participation in "Rawa" Program	Office of Education Governorate Khobar - care unit talented
2	08/11/2018	08/11/2018	participation in the discussion the projects of talented students "Toward creativity"	Eastern Exhibition for Creativity Olympics 2019
3	07/03/ 2017	07/03/ 2017	participation in the meeting of career opportunities for university graduates at Saudi Aramco	Alumni and Career Development Center,
4	07/ 06/ 2015	09/ 07/ 2015	Project member	SA-RSI international summer program for gifted students, collaborate with CEE (Center for Excellence in Education, USA), Saudi ARAMCO
5	2013	To Date	Supervising the training program	Office of Alumni and Career Development Center, <b>College of Science</b>
6	06/02/2013	06/02/2013	Research Arbitration in the Fourth Student Conference	Imam Abdulrahman bin Faisal University (formerly University of Dammam)
7	12/03/2013	19/03/2013	Participation in the judging committee in the National Olympiad for Scientific Creativity (Ibda'a) Level 2	King Abdul Aziz and his men - talent



8	28/03/2011	23/03/2011	Participation in judging committee in the National Olympiad for Scientific Creativity (Ibda'a) Level 3	King Abdul Aziz and his men - talent
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Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Ability to use computer programs Microsoft Office.
2	Ability to use the Blackboard program in teaching (preparation of electronic content - preparation of tests - monitoring grades - communication with students - the development of advertisements).
3	Ability to use a correspondence program in administrative transactions (sending, forwarding and answering letters).
4	The ability to use the program of student records in teaching (electronic preparation - monitoring of grades - academic guidance).

Up Date 14/10/2020