

Hashem M. Al-Sheikh

Full professors (Applied mycology)

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Current status: Professor (Applied mycology)

EDUCATION

Ph.D., Microbiology (Mycology), Applied Mycology, the University of Nottingham, Nottingham, UK 2005

Thesis Title: Transcriptional regulation of the glucoamylase-encoding gene under endoplasmic reticulum stress in *Aspergillus niger*

M.Sc., Microbiology, Western Illinois University, 2000
Macomb, Illinois, USA

Thesis Title: Physiological Characteristics of Polymer-Producing *Leuconostoc* Strains
*(see the abstract for more details)

B. Ed., Biology, King Saud University, Riyadh, 1995
Saudi Arabia

EXPERIENCE AND MEMBERSHIPS

- 1997-00 • Member of American Society for Microbiology
- 2000-05 • Member of British Mycological Society
- 2010-13 • Member of International Society for Mycotoxicology
- Usual participant in the activities of the Biological Science Department at Western Illinois University, USA and University of Nottingham, UK
- Frequently assisted as a laboratory instructor for Undergraduate students and science visitors at Western Illinois University, USA, and University of Nottingham, UK
- 1995-96 • Teaching Assistant at King Faisal University, Saudi Arabia
- 1994-95 • Laboratory Assistant at King Abdulaziz City for Science and Technology, Saudi Arabia
- 2005-2011 • Assistant professor at King Faisal University, Saudi Arabia
- 2011-2017 • Associate professors at King Faisal University, Saudi Arabia
- 2017-present • Full professors at King Faisal University, Saudi Arabia

ACCOMPLISHMENTS

- 1995 • Bachelor degree in Biology with a Second Class Honour (KSU)
- 1999 • Certificate of Academic Excellence from Western Illinois Univ.

المقررات التدريسية التي ساهم في تدريسها	المرحلة الجامعية	الدراسات العليا
Mycology and Algae فطريات وطحالب	✓	<input type="checkbox"/>
Viruses and Bacteriology بكتيريا وفيروسات	✓	<input type="checkbox"/>
Plant cell and Tissue Culture زراعة الانسجة والخلايا النباتية	✓	<input type="checkbox"/>
Biology الأحياء (كلية الطب البيطري و الثروة الحيوانية	✓	<input type="checkbox"/>
General Principles of Biology مبادئ الاحياء العامة (كلية التربية)	✓	<input type="checkbox"/>
Graduation Project (1) مشروع تخرج (1)	✓	<input type="checkbox"/>
Graduation Project (2) مشروع تخرج (2)	✓	<input type="checkbox"/>

مسمى عضوية اللجنة وخدمة المجتمع	التاريخ
لجنة صياغة واعداد برامج وخطط للدراسات العليا لقسم الأحياء/ كلية العلوم (عضوا) Committee of Planing and Reviewing Gradute Studding Plans at College of Science (Member)	2010-presnt
لجنة الميزانية والتجهيزات (عضوا) Committee of Budget and Equipments at College of Science (Member)	1427/10/23 هـ
لجنة صياغة واعداد برامج وخطط للدراسات العليا لقسم الأحياء/ كلية العلوم (عضوا) Committee of Planing and Reviewing Gradute Studding Plans at College of Science (Member)	1430 هـ 2009
لجنة تحكيم مقاييس مخرجات التعلم التابع للمشروع الوطني لقياس مخرجات التعلم (المرحلة الثانية) بواسطة المركز الوطني للقياس والتقويم لصالح وزارة التعليم	1437/4/25-23 هـ 2016/2/4-2

PRESENTATIONS

- 1999
- Scot Holt, **Al-Sheikh, H.** Characterization of Polymer-Producing *Leuconostoc* Strains, American Society for Microbiology, The 99th General Meeting, McCormick Place, Chicago, IL, USA
- 2003
- **Al-Sheikh, H.**, D. J. Jeenes, A. J. Watson, M. J. C. Alcocer, P. J. Punt, and D. B. Archer. Protein secretion stress in *Aspergillus niger*. *Fungal*

Genetics Newsletter, Vol. 50, Suppl., Proc. XXII Fungal Genetics,
Asilomar, USA. p. 82.

2003 Archer, D. B., M. J. C. Alcocer, **H. Al-Sheikh**, S. Barnes, and A. J. Watson.
The secretion of heterologous proteins by fungi. Proceedings of the
MSA/BMS Symposium, Asilomar, USA. P. 32

2003 LEE, HEATHER¹, AL-SHEIKH, HASHEM¹, LOUNDS, CHRIS¹,
MONTIEL, MARIA¹, DICKINSON, MATT², BRAKHAGE,
AXEL³, and ARCHER, DAVID.

1 School Life and Environmental Sciences, Univ. Nottingham, Nottingham NG7 2RD, UK.

2 School Biosciences, Univ. Nottingham, Sutton Bonington Campus LE12 5RD, UK.

3 Inst. Microbiology, Univ. Hannover, D-30167 Hannover, Germany.

DNA methylation in biotechnologically and medically important fungi.

Newsletter of the Mycological Society of America. Supplement to
Mycologia Vol. 54(3) P.31

2004 **Al-Sheikh, H.**, and D. B. Archer. Endoplasmic reticulum stress leads to
the selective transcriptional down-regulation of the glucoamylase gene in
Aspergillus niger. EUROFUNG, The Genomic Era. WICC, Wageningen,
The Netherlands, p. 28.

2004 **Al-Sheikh, H.**, A. J. Watson, G. A. Lacey, P. J. Punt, D. A. MacKenzie,
D. J. Jeenes, T. Pakula, M. Penttilä, M. J. C. Alcocer and D. B. Archer.
Endoplasmic reticulum stress leads to the selective transcriptional
downregulation of the glucoamylase gene in *Aspergillus niger*.
Proceedings of the the 7th European Conference on Fungal Genetics,
Copenhagen, Denmark, p. 196.

2004 **Al-Sheikh, H.**, A. J. Watson, G. A. Lacey, P. J. Punt, D. A. MacKenzie,
D. J. Jeenes, T. Pakula, M. Penttilä, M. J. C. Alcocer and D. B. Archer.
Endoplasmic reticulum stress leads to the selective transcriptional down-

regulation of the glucoamylase gene in *Aspergillus niger*. BMS meeting, Fungi in the Environment. University of Nottingham, UK, p. 79.

- 2009 **Al-Sheikh, H.** Air-Borne Mycoflora in the Schools Environment in Hofuf, Al Hassa Province of Saudi Arabia. The 24th Meeting of Saudi Biological Society, Biotechnology: Reality and Application, Madinah Almunawwarah, at Taibah University, 7-9 April, 2009 (see certificate of participation)
- 2009 **Al-Sheikh, H.** Effect of Lactoferrin and Iron on the Growth of Human Pathogenic Candida Species. The 24th Meeting of Saudi Biological Society, Biotechnology: Reality and Application, Madinah Almunawwarah, at Taibah University, 7-9 April, 2009 (see certificate of participation for further details)
- 2011 **Al-Sheikh, H.** Differentiation between two isolates of *Pythium ultimum* var. *ultimum* isolated from diseased plants in two different continents Gordon Research Conference on Applied & Environmental Microbiology, Mount Holyoke College in South Hadley MA United States, 07/10/2011 – 07/15/2011

Activities in the Community

*Newspaper interviews:

Alriyadh newspaper, 27-09-2007, economic section, issue number 14339

*Certificate of thanks and appreciation from the Saudi Arabian National Guard 2011, Fifth Infantry Division, for organizing and participating in the sport activities

TECHNICAL EDITOR in the following journals:

Journal of Biological Sciences: <http://scialert.net/eboard.php?issn=1727-3048>

Research Journal of Microbiology : <http://scialert.net/eboard.php?issn=1816-4935>

Microbiology Journal: <http://scialert.net/eboard.php?issn=2153-0696>

Qualified outside reviewer in The **African Journal of Biotechnology (AJB)** (ISSN 1684-5315) since 11/2011

Qualified outside reviewer in The **The Journal of Agricultural Science and Technology (JAST)**. (<http://jast.modares.ac.ir/>) 000 since 12/2013

public seminar given in the science college/King Faisal University titled:
Genetically engineered fungi to improve
the production of desired protein 14/10/2015

Training Courses and workshops

Workshop on Self Evaluation Scales of the College of Science.
King Faisal University, 1/3/2008
Teaching strategies for college's students (Arabic language),
23-24/02/2008

Introduction to Food and Airborne fungi (6-10 October 2008)
held at the CBS Fungal Biodiversity Center, Utrecht The
Netherlands. The course's program in brief focuses on using the
identification keys for identifying most of the common food-
and airborne fungi.

Detection techniques for mycotoxins and toxigenic fungi in the
food chain (4-8 October 2010) held at the ISPA-CNR
Laboratory, Via G. Amendola 122/O, 70126 Bari, Italy.

Workshop on Assessing Teaching Effectiveness. Program
entitled: Learning, Teaching, and Critical Thinking: Strategies
for Effective Instruction, Dec. 8& 9, 2012

PUBLICATIONS

الناشر وتاريخ النشر Publisher and Date	عنوان البحث Research Title	اسم الباحث) (الباحثين	رقم No
Applied Biochemistry and Microbiology, 2016, Vol. 52, No. 4, pp. 413–420	In Vitro Antifungal Efficacy of <i>Aspergillus niger</i> ATCC 9642 Chitosan-AgNPs Composite Against Post-Harvest Disease of Citrus Fruits	<u>Hashem Al-Sheikh</u> and Ramy S. Yehia	1
Journal of Pure and Applied Microbiology, Mar 2015 Vol. 9(1), p. 433-439	Decolorization of methylene blue using silver nanoparticles synthesized from endophytic fungus	<u>Hashem Al-Sheikh</u> and Ramy S. Yehia	2
Journal of Pure and Applied Microbiology. Mar 2015 Vol. 9(1), p. 515-521	ANTIFUNGAL EVALUATION OF MEDICINAL PLANT ON SOME PATHOGENIC FUNGI.	<u>Hashem Al-Sheikh</u>	3

Genetics and Molecular Research 14 (1): 634-644 (2015)	LAMP-PCR detection of ochratoxigenic <i>Aspergillus</i> species collected from peanut kernel	<u>Hashem Al-Sheikh</u>	4
Scientific Journal of King Faisal University (Basic and Applied Sciences) , 1436 (2015) Vol.16.(1): p. 53-74	Eliminating of pathogenic soil borne <i>Pythium</i> species spreading across the marine port of Duba	<u>Hashem Al-Sheikh</u>	5
World Journal of Microbiology and Biotechnology (2014) 30:2797–2803	Biosynthesis and characterization of silver nanoparticles produced by <i>Pleurotus ostreatus</i> and their anticandidal and anticancer activities	Ramy S. Yehia and <u>Hashem Al-Sheikh</u>	6
JOURNAL OF PURE AND APPLIED MICROBIOLOGY, Dec. 2014. Vol. 8(6), p. 4385-4391	Occurrence of Fungi in Household Water Tanks in Al-Hassa, Saudi Arabia	<u>Hashem Al-Sheikh</u>	7
JOURNAL OF PURE AND APPLIED MICROBIOLOGY, May 2014. Vol. 8(Spl. Edn. 1), p. 111-117	Antifungal Activity of the Cyanobacterium <i>Nostoc muscorum</i> Isolated from Al-Hassa, Saudi Arabia	<u>Hashem Al-Sheikh</u>	8
Research Journal of Microbiology Volume 7, Number 2, 82-100, 2012	Materials for <i>Pythium</i> Flora of Saudi Arabia (I) Occurrence, Pathogenicity and Physiology of Reproduction of <i>Pythium aphanidermatum</i> (Edson) Fitzp. Isolated from North and East Regions of Saudi Arabia	<u>Al-Sheikh, H.</u> and Hani M. A. Abdelzaher	9
Research Journal of Environmental Sciences Year:2012 Volume:6 Issue PageNo.:196-209 DOI: 10.3923/rjes.2012.19	Occurrence, Identification and Pathogenicity of <i>Pythium aphanidermatum</i> , <i>P. diclinum</i> , <i>P. dissotocum</i> and <i>Pythium</i> "Group P" Isolated from Dawmat Al-Jandal Lake, Saudi Arabia	<u>Al-Sheikh, H.</u> and Hani M. A. Abdelzaher	10
<i>Saudi Journal of Biological Sciences</i> . Accepted in 5/2010	Two Pathogenic species of <i>Pythium</i> : <i>P. aphanidermatum</i> and <i>P. diclinum</i> from a wheat field	<u>Hashem Al-Sheikh</u>	11
<i>Journal of Biological Sciences</i> Accepted in 4/2010	Differentiation between two isolates of <i>Pythium ultimum</i> var. <i>ultimum</i> isolated from diseased plants in two different continents.	<u>Al-Sheikh, H.</u> and Hani M. A. Abdelzaher	12

<i>Journal of Biological Sciences</i> . 10 (3): 178-189, 2010	Isolation of <i>Aspergillus sulphureus</i> , <i>Penicillium islandicum</i> and <i>Paecilomyces variotii</i> from agricultural soil and their biological activity against <i>Pythium spinosum</i> , the damping-off organism of soybean.	<u>Al-Sheikh, H.</u> and Hani M. A. Abdelzaher	13
<i>Research Journal of Environmental Sciences</i> . 4 (1): 13-22, 2010	Ecological Studies on Al-Asfar Lake, Al-Hassa, Saudi Arabia, with Special References to the Sediment	<u>Al-Sheikh, H.</u> and A. A. Fathi	14
<i>Research Journal of Microbiology</i> . 4 (6): 229-234, 2009	Epidemiology of Dermatophytes in the Eastern Province of Saudi Arabia	<u>Hashem Al-Sheikh</u>	15
<i>Research Journal of Microbiology</i> . 4 (5): 208-213, 2009	Date-Palm Fruit Spoilage and Seed-borne Fungi of Saudi Arabia	<u>Hashem Al-Sheikh</u>	16
<i>Pakistan Journal of Biological Sciences</i> . 12 (1), 91-94, 2009	Effect of Lactoferrin and Iron on the Growth of Human Pathogenic <i>Candida</i> Species	<u>Hashem Al-Sheikh</u>	17
<i>Saudi Journal of Biological Sciences</i> . 15 (2) 237-241, December 2008	Air-Borne Mycoflora in the Schools Environment in Hofuf, Al Hassa Province of Saudi Arabia	<u>Hashem Al-Sheikh</u>	18
<i>Mol. Gen. Genom.</i> 274, 410-418 (2005)	UPR-independent dithiothreitol stress-induced genes in <i>Aspergillus niger</i> .	D. A. MacKenzie, <u>H. Al-Sheikh</u> , A. J. Watson, D. J. Jeenes, P. Wongwathanarat, N. Dunn-Coleman and D. B. Archer.	19
<i>Mol. Microbiol.</i> 53 , 1731-1742. (2004)	Endoplasmic reticulum stress leads to the selective transcriptional downregulation of the glucoamylase gene in <i>Aspergillus niger</i> .	<u>Al-Sheikh, H.</u> , A. J. Watson, G. A. Lacey, P. J. Punt, D. A. MacKenzie, D. J. Jeenes, T. Pakula, M. Penttilä, M. J. C. Alcocer and D. B. Archer.	20
<i>Letters In Applied Microbiology</i> 32, 185-189 (2001)	Characterization of Dextran-Producing <i>Leuconostoc</i> Strains.	Holt, S.M., <u>Al-Sheikh, H.</u> , Shin, K. J.	21