

كلية العلوم - قسم النبات والأحياء الدقيقة
أ.د. عبدالله بن مساعد خلف الفالح
بسم الله الرحمن الرحيم
(C.V. in English)

Prof. Dr. **ABDULLAH MSAAD ALFALIH** (PROFESSOR)

DEPARTMENT OF BOTANY AND MICROBIOLOGY

College of Science - King Saud University

Saudi Arabia

PROFILE

Professor of Microbiology at College of Science, King Saud University. Founding Dean of Science College and Humanities, Prince Sattam Bin Abdulaziz University, 2010-2018. Obtained PhD degree in microbiology and biotechnology from Sheffield University, England, United Kingdom at 1995. Expert for more than 35 years in the field of microbial ecology. Experience and immense contribution in administrative duties. Published in leading peer-reviewed international journals of microbiology, fungi and biotechnology. Principal Investigator of competitive local institutional grants.

ACADEMIC DEGREES

Ph.D. 1995 Microbiology and Biotechnology - Sheffield University, England, United Kingdom.

M.Sc. 1992 Microbiology, College of Science, King Saud University, KSA.

B.Sc. 1987 Biology, College of Education, King Saud University, KSA.

APPOINTMENTS & OTHER PROFESSIONAL ACTIVITIES

- Founding Dean of Science College and Humanities, Prince Sattam Bin Abdulaziz University, 2010-2018.
- Founding Country Coordinator of Globe Program between USA and Saudi Arabia, 2002 - 2007.
- Professor, Botany and Microbiology, College of Science, KSU, 2005-present.

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- Associate Professor, Botany and Microbiology, College of Science, KSU, 1999- 2005.
- Assistant Professor, Biology, Teachers College, KSU, 1995- 1999.
- Lecturer, Biology, Teachers College, KSU, 1991- 1995.
- Demonstrator, Biology, Teachers College, KSU, 1987-1991.
- Board member, The Scientific Council of King Saud University, 2007-2009.

Personal information

- Name: Prof. Dr. Abdullah Msaad Alfalih
- Place of birth: Syllayel, Saudi Arabia
- Nationality: Saudi
- Work: Department of Botany and Microbiology, College of Science, King Saud University, Saudi Arabia.
- Rank: Professor
- General specialty: Microbiology
- Specialization: Microbial Ecology and Physiology
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- E-mail: aalfalih@ksu.edu.sa alfalihy@yahoo.com

Short Curriculum Vitae

- 1- Founding Dean of Science College and Humanities, Prince Sattam Bin Abdulaziz University, 2010-2018.
- 2- Board member, The Scientific Council of King Saud University, 2007-2009.
- 3- Founding Country Coordinator of Globe Program between USA and Saudi Arabia, 2002 -2007.
- 4- Board member, The Council of Education Ministry, 2000-2006.
- 5- Board member, The Council of Prince Sattam Bin Abdulaziz University, 2010-2018.
- 6- Dean of The Academic Affairs and Scientific Research in Ministry of Education, 2001-2003.
- 7- Secretary and a member of The Scientific Council of Teachers College, 2000- 2003.
- 8- Professor, Botany and Microbiology, College of Science, KSU, 2005-present.
- 9- A scientific discovery in 1995 regarding the efficacy of yeasts in transforming minerals in the soil in Sheffield University, England, United Kingdom.
- 10- Obtaining a membership certificate in the American Association for the Advancement of Sciences in 1997.

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- 11- Author of 13 books and published 37 papers in the field of microbial ecology and physiology in an ISI journals.
- 12- Part-time consultant in the field of protection from environmental pollution at the General Administration of Safety at the Ministry of Interior.
- 13- part-time consultant in the High Commission for the Development of Riyadh.
- 14- Member of a number of committees in the Ministry of Education and King Saud University.
- 15- Participation in a number of local and international conferences in the field of environments and environmental pollution.
- 16- Member of the Editorial Board of Teachers Colleges Journal.
- 17- Head of the strategic vision work team for Teachers College, King Saud University.

Professional Membership

1- Membership in Scientific societies:

- A- Member of the Saudi Biological Society.
- B- Saudi Environmental Society.
- C- Saudi Society for Agricultural Sciences.

2- Committees:

- A - Head of the Libraries Committee.
- B- Head of the faculty discipline committee.
- C - Head of the Scientific Participation Committee.
- D- Head of the Science Path Committee.
- E - Chairman of the Contracting Committee in Jordan in 2001, 2002, 2012 and 2015.
- F - Chairman of the Contracting Committee in Sudan in 2013, 2014, 2015 and 2016.
- R. Chairman of the Contracting Committee in Egypt in 2015, 2016 and 2017.
- G- Member of the Training and Scholarship Committee.
- L - Member of the Development Committee and Executive Regulations of the Scientific Council.
- J- Member of the scholarship students committee.

3- Councils:

- A- Member of the Board of Deputies of the Minister of Education.
- B- Member of the Council of Prince Sattam bin Abdulaziz University.
- T - Member of the Council of Educational Work Leaders in the Ministry of Education.
- C - Member of the Teachers Colleges Council.
- D - Member of the Ministry Agency Council for Teachers Colleges.
- E - Member of the Scientific Council.
- F - Chairman Council of the Deanship of Educational Affairs and Scientific Research.
- G- Member of the Science Department Council.

4- Literature and scholarly activities

First: Books

- 1- Environmental studies on the effect of irrigation with treated wastewater on the physical composition of the soil and its chemical and bacterial content, 1992, Master Thesis. College of Science, King Saud University, Riyadh, Saudi Arabia.
- 2- Soil microbiology that receives high concentrations of sucrose from a natural source, 1995 AH, Ph.D., University of Sheffield, Britain.
- 3- Basics of Plant Division, Abdullah Al-Falih and Abdulkarim Ayyash, 2003. Al-Khuraiji Publishing and Distribution House, Riyadh, Kingdom of Saudi Arabia.
- 4- Student and Teacher Handbook for the Environmental Globe Project in the Kingdom of Saudi Arabia, Abdullah Al-Falih and others, 2004 AH. Middle East Press, Riyadh, Kingdom of Saudi Arabia.
- 5- The Greatness of God in the Plant, Abdullah Al-Falih, 2005 AH. Al-Rashed Library, Riyadh, Kingdom of Saudi Arabia.
- 6- Ecology and Environmental Education, Abdullah Al-Falih and others, 2006 AH. National Offset Printing Press Company Ltd., Riyadh, Kingdom of Saudi Arabia.
- 7- Plant Environment, Abdullah Al-Falih, 2007 AH. Al-Khuraiji Publishing and Distribution House, Riyadh, Kingdom of Saudi Arabia.
- 8- Microbiology, Abdullah Al-Falih, 2018 AH. Department of Scientific Publishing and Printing Press, King Saud University, Riyadh, Kingdom of Saudi Arabia.
- 9- Poems in trips, Abdullah Al-Falih, 2020. Jarir Bookstore, Riyadh, Saudi Arabia.
- 10- Yeasts, Abdullah Al-Falih, 2022. Obeikan Education Press, Riyadh, Kingdom of Saudi Arabia.
- 11- Microbial interactions, Abdullah Al-Falih, 2022. Obeikan Education Press, Riyadh, Saudi Arabia.
- 12- Lichens, Abdullah Al-Falih, 2022. Obeikan Education Press, Riyadh, Saudi Arabia.
- 13- The New Biotechnology, Abdullah Al-Falih, 2024. Department of Scientific Publishing and Printing Press, King Saud University, Riyadh, Kingdom of Saudi Arabia.

Second: Researches

- 1- **Al-Falih, A. M.** and Wainwright, M. Nitrification, S-oxidation and P-solubilization by the soil yeast *Williopsis californica* and by *Saccharomyces cerevisiae*. Mycological Research. (1995). 99 (2): 200-204.
- 2- **Al-Falih, A.M.** and Wainwright, M. Nitrification in vitro by a range of filamentous fungi and yeasts. Applied Microbiology, Letters. (1995). 21(1): 18-19.
- 3- Wainwright, M and **Al-Falih, A.M.** Involvement of yeasts in urea hydrolysis and nitrification in soil amended with a natural source of sucrose. Mycological Research. (1996). 100(3): 307-310.
- 4- **Al-Falih, A.M.** and Wainwright, M. Microbial and enzyme activity in soils amended with a natural source of easily available carbon. Biology and Fertility of

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Soils. (1996). 21: 177-183

5- **Al-Falih A. M.** Sulphur oxidation in Saudi Arabian agricultural soils. Qatar University Science Journal. (1996). 16(2): 297-302.

6- **Al-Falih, A.M.** Influence of Heavy-metals Toxicity on the Growth of *Phanerochaete chrysosporum*. Bioresource Technology. (1997) 60(1): 87-90.

7- **Al-Falih, A.M.** Production of extracellular enzymes by some soil yeasts. Qatar University Science Journal. (1997). 17(1): 97-102.

8- **Al-Falih, A.M.** The relationship between heavy metal concentration and soil mycoflora in the Gizan region, Saudi Arabia. Qatar University Science Journal. (1997) 17(1): 111-119.

9- Wainwright, M and **Al-Falih, A.M** (1997). Fungal growth on buckminsterfullerene. Microbiology. 143: 2097-2098.

10- **Al-Falih, A.M.** Comparative toxicity of heavy metals to some yeasts isolated from Saudi Arabian soil. Bioresource Technology. (1998) 64(3): 193 - 198.

11- **Al-Falih, A.M.** Impact of heavy metals on cellulolytic activity of some soil fungi. Kuwait Journal of Science and Engineering (1998). 25: 397-408.

12- **Al-Falih, A.M.** Effect of heavy metals on amylolytic activity of the soil yeasts *Geotrichum capitatum* and *Geotrichum candidum*. Bioresource Technology. (1998) 66(3): 213-217 .

13- **Al-Falih. A.M.** Nitrogen transformation as affected by some factors at cultivated soils in Saudi Arabia. Qatar University Science Journal. (2000). Vol. 20, pp. 85-93.

14- **Al-Falih. A.M.** A quantitative survey of air-borne fungal spores from schools in Riyadh, Saudi Arabia. Pakistan Journal of Biological Sciences. (2001). Vol. 4, (6), pp. 736-739.

15 - **Al-Falih. A.M.** Microbial air pollution of Muna area, Makkah region, Saudi Arabia. Journal of King Saud University (2000). Vol. 13, Science (1&2), pp. 1-10.

16- **Al-Falih. A.M.** Effect of silicic acid on the growth of *Fusarium* species. Saudi Journal of Biological Sciences. (2000). Vol. 7, No. 2, pp. 147-155.

17- **Al-Falih. A.M.** Acid phosphatase activity in Saudi Arabian soils. Kuwait Journal of Science and Engineering. (2000). Vol. 27, No. 2, pp. 321-330.

18- **Al-Falih. A.M.** Urea hydrolysis and urease activity in Saudi Arabian soils. Qatar University Science Journal. (2000). Vol. 20 , pp. 95-103.

19- Al-Julaifi, M.Z. and **Al-Falih. A.M.** Detection of Trichothecenes in animal feeds and foodstuffs during the years 1997 to 2000. Journal of Food Protection., (2001). Vol. 64 (10), pp. 1603-1606.

20- **Al-Falih. A.M.** Factors affecting phosphate availability in soil. Kuwait Journal of Science and Engineering. (2001). Vol. 28, No. 1, pp. 171-178.

21- **Al-Falih A.M.** and Mohammed Z. Al-Julaifi. Nitrification by *Fusarium* species grown under oligotrophic conditions. Pakistan Journal of Biological Sciences . (2001). Vol. 4, No. 3, pp. 343-345.

22- **Al-Falih. A.M.** Proteolytic activity of some local isolates of yeasts as affected by

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cultural conditions. Pakistan Journal of Biological Sciences. (2001).Vol.4, (6), p.718-721.

23- **Al-Falih. A.M.** Estimation of available phosphorus in agricultural soils of Saudi Arabia. Kuwait Journal of Science and Engineering. (2001). Vol. 28, No. 2, pp 371-380.

24- **Al-Falih A.M.** and Al-Julaifi. M.Z. Mycoflora and aflatoxins producing fungi of cotton seed cake in Saudi Arabia. Journal of King Saud University, (2003). Vol. 15, Agriculture Science (1), pp 25-33 .

25- **Al-Falih. A.M.** Nitrification in some soils from Saudi Arabia. Journal of King Saud University, (2002). Vol. 14, Science (2), pp. 69-78.

26- **Al-Falih. A.M.** Factors affecting the efficiency of symbiotic nitrogen fixation by Rhizobium. Pakistan Journal of Biological Sciences. (2002).Vol.5,(11), pp. 1277-1293.

27- **Al-Falih A.M.** and Al-Julaud. A.A. Microbiological studies on some organic materials used as soil conditioners. J. King Saud Univ., (2003). Vol. 15, Agriculture Science (2), pp. 153-165.

28- **Al-Falih, A.M.** Wainwright, M. and Abdullah A. Al-Talhi. Use of volatiles by fungi and effects of heavy metals during growth under oligotrophic conditions. Saudi Journal of Biological Sciences (2002). Vol. 9, No. 1, pp. 24-32.

29- **Al-Falih, A.M.** Effect of silicon compounds on oligotrophic soil bacteria. Saudi Journal of Biological Sciences (2003). Vol. 10, No. 2, pp.131-137.

30- **Al-Falih, A. M.** Phosphate solubilization in vitro by some soil yeasts. Qatar University Science Journal. (2005). Vol. 25 pp. 119-125

31- **Al-Falih, A.M.** Nitrogen transformation in Vitro by some soil yeasts. Saudi Journal of Biological Sciences (2006). Vol. 13, No. 2, pp.135-140.

32- **Al-Falih, A.M.** The role of soil yeasts in sulphur oxidation. 3rd European Federation of Biotechnology Conference (2007).

33- Atef Elbendary and **Abdullah Al-falih** (2013) Studying the Amount of Electrostatic Charge in the Biosphere at Al-Sulyil City, KSA. International Review of Physics (IREPHY) Vol. 7. n. 2, pp. 219-222. April.

34- Asma Mohammed Elbashir, **Abdullah Al-falih** , Atef Elbendary , Shafi Mohamed (2014) Health Effects of Electrostatic Charge in the Biosphere at Al-Sulyil City, KSA. Academic Research International Vol. 5(2). March.

35- **Al-Falih, A.M.** Saccharomyces Cerevisiae and Its Biotechnological Applications. Environmental Analysis & Ecology Studies. 9(2). EAES. 000706. (2021). 995-1000. DOI: 10.31031/EAES.2021.09.000706

36- Haripriya Kuchi Bhotla, Balamuralikrishnan Balasubramanian, Arun Meyyazhagan, Karthika Pushparaj , Muruges Easwaran , Manikantan Pappusamy, Asirvatham Alwin Robert f, Vijaya Anand Arumugam g , Valentina Tsibizova, **Abdullah Msaad Alfalih**, Reem M. Aljowaie, Muthupandian Saravanan, Gian Carlo Di Renzo, Opportunistic mycoses in COVID-19

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patients/survivors: Epidemic inside a pandemic. Journal of Infection and Public Health 14 (2021) 1720–1726.

37- Abu Baker, Sana Iram, Asad Syed, Abdallah M. Elgorban, **Abdullah Msaad Al-Falih**, Ali H. Bahkali, Mohd Sajid Khan and Jihoe Kim, Potentially Bioactive Fungus Mediated Silver Nanoparticles. Nanomaterials (2021), 11, 3227. 1-20.

<https://doi.org/10.3390/nano11123227>

38- A. ELBENDARY and **Abdullah M. Alfalih**, HUMIDITY AND SPREAD OF THE COVID-19 AT SAUDI ARABIA. Asian Journal of Advances in Research (2022), 13(4): 24-29.

<http://mbimph.com/index.php/AJOAIR/article/view/2834>

39- Helal F.Al-Harthi, Abdallah M. Elgorgan, Bilal Ahmed, Ali H. Bahkali, Mohamed ElSheshtawi, Jilani Purusottapatnam Shaik, **Abdullah Msaad Al-Falih** and Asad Syed, Identification, Molecular Characterization, and Plant Growth Promoting Activities of Endophytic Fungi of Jasminum sambac, Camellia sinensis, and Ocimum basilicum. Journal of King Saud University - Science (2023), Volume 35, Issue 3, April 2023, 102558

<https://doi.org/10.1016/j.jksus.2023.102558>

40- Jamal M. Khaled, Naiyf S. Alharbi, Shine Kadaikunnan, Ahmed S. Alobaidi, Khaled Nauman, Abdul-Kareem M.Ghilan, Abeer O. Almazyed, Mohammed S. Aldosary, Saeed Al Rashedi, **Abdullah M Alfalih**, Mohamed A. Farrag, Mohammed S. Alharbi, Distribution of *Candida* infections in patients and evaluation of the synergic interactions of some drugs against emerging fluconazole- and caspofungin-resistant *C. auris*

Journal of King Saud University - Science (2023), Volume 35, Issue 4, June 2023, 102617

<https://doi.org/10.1016/j.jksus.2023.102617>

41- Jamal M. Khaled, Naiyf S. Alharbi, Rayan M. Al-Huwaymil, Shine Kadaikunnan, Ahmed S. Alobaidi, **Abdullah M Alfalih**, Stability of (1R,2S)-(-)- Ephedrine hydrochloride in *Candida albicans*-inoculated urine and blood samples Saudi Journal of Biological Sciences (2023), Volume 30, Issue 6, June 2023, 103680

<https://doi.org/10.1016/j.sjbs.2023.103680>

42- **Al-Falih, A.M.** The Mechanism of PGPR on the Photosynthesis System, Plant Resistance and Biofertilizers. Environmental Analysis & Ecology Studies (2023). EAES. 000769. 11(4). 2023.

DOI: 10.31031/EAES.2023.11.000769

43- **Al-Falih, A.M.** Overview on Mycotoxins Health Hazard to Humans and Animals. Environmental Analysis & Ecology Studies (2024). EAES. 000794. 12(4). 2024.

DOI: 10.31031/EAES.2024.12.000794

44- **Mohammad J. Alsarraf, Fuad Ameen, Abdullah Alfalih, Zirak Sajjad.** Evaluation of high-value bioproducts production by marine endophytic fungus *Arthrinium* sp. FAKSA 10 under solid state fermentation using agro-industrial wastes. Electronic Journal of Biotechnology (2024). EJBT-D-24-00131.

DOI: <https://doi.org/10.1016/j.ejbt.2024.09.001>

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45- Fuad Ameen, Karimah Almishrif, Abeer A. Al-Masri, Sami Alyahya and Abdullah Alfalih. Evaluating the Antibacterial and Anti-Biofilm Properties of Chitosan Nanoemulsion Containing Euphorbia hebecarpa Plant Extract Against Escherichia coli and Staphylococcus aureus, Polymers for Advanced Technologies (2024). 35 (10). e6597

<https://doi.org/10.1002/pat.6597>

Funded projects:

First, project funded by SABIC:

- The efficiency of symbiotic nitrogen fixation by Rhizobium. (Funded by SABIC 2001-2000).
- Factors affecting the efficiency of phosphate fertilizers in agricultural soils of Saudi Arabia. (Funded by SABIC 1998-2002).

Second, project funded by the Ministry of Education:

- Study the reality of school laboratories at the secondary stage in the Kingdom of Saudi Arabia and prepare a model for their activation. Research supported by the Ministry of Education during the years 205-2006.

Aspects of other activities:

- 1- Work in the general administration of curricula at the Ministry of Education 1995.
- 2- A member of the National Family of Natural Sciences for the academic year 1996.
- 3- A part-time consultant in protection from environmental pollution at the General Administration of Safety and Firefighting 1996.
- 4- Contribute in the evaluation of the unified science books for the Gulf countries for the tenth grade (Chemistry - Physics - Biology and Earth science) which was authored by the Arab Center for Educational 1996.
- 5- A member of the Board of Directors of the Educational Research and Studies Unit in the Teachers College, starting from 1999.
- 6- Business legislators on agricultural works in the Teachers college 1999.
- 7- A member of the plans and curricula committee at the Ministry of Education 1999.
- 8- Head of the technical committee for spinning and weaving at the Saudi Organization for Standardization and Metrology, starting from 1999 until now.
- 9- A member of the Editorial Board for the Journal of Teachers Colleges 2000.
- 10- Secretary and member of the Scientific Council of Teachers' Colleges, 2000-2002.
- 11- A member of the Advisory Committee for Educational Research and Studies at the Ministry of Education 2000.

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Participation in conferences and workshops

- Attending the first Saudi symposium for agricultural sciences, which was held from 25-27 / 3 / 1997 at the College of Agriculture in Riyadh at King Saud University.

- Attending the Fifth International Symposium for Soil and Plant Analysis, which was held from August 2-7, 1997, In Minnesota, USA.

- Attending a symposium on higher education in the Kingdom of Saudi Arabia (future visions), which was held from 22-25 / 2 / 1998, in the King Faisal Conference Hall in Riyadh.

- Participation in the fifteenth conference of civil defense in Al-Baha from 23-25 Feb 1997. A working paper entitled "Microbial Pollution and the Role of Civil Defense in Protecting People from It".

The Seventeenth Congress of Soil Sciences in Montpellier, Montpellier, France, from 20-26/ 8/ 1998.

- Participation in the Seventh Conference of Ministers Responsible for Higher Education and Scientific Research in the Arab World, held at the King Faisal Conference Hall in Riyadh from 15-17/4/1999.

- Attending a symposium on Scientific Research and the Prospects of the Third Millennium "Science and Technology", seen in the period from 24-26 / 4 / 2000 at the University of Sharjah in the United Arab Emirates.

- Attending the training workshop in the GLOBE environmental project. View during the period from 12-21 / 1/2003 AD at the University of Waikato in Hamilton Hamilton in New Zealand, New Zealand.

- Attending the training workshop in the GLOBE Earth Earth project during the period from 24-28 / 5 / 2003AD in Amman, Kingdom of Jordan.

- Attending the third regional conference of the GLOBE Environmental Program, which was held during the period from 11-15 / 10/2003 in Manama, Kingdom of Bahrain.

- Attending the third conference for desertification and environment studies after the year 200, held at King Saud University in Riyadh from 11/30/1999 to 12/4/1999.

- Attending the Nineteenth Conference on Food Protection held in Minneapolis, Minnesota, USA, from 5-8 / 8/2001.

- Attending the Electronic Libraries Course: Creation, Development, and Methods of Making Use of Available Resources, which was held in Manama, Bahrain, at the University of Bahrain from 28-30 / 1 / 2002.

- Attending the Fifth Conference of Deans of Faculties of Education, held at Qatar University in Doha, State of Qatar, 27-29 / 4/2002.

- Attending the meeting of the committee of representatives and directors of universities and university companies for academic affairs in the countries of the Cooperation Council for the Arab Gulf States, and the symposium on "Educational Horizon" held at King Abdulaziz University in Jeddah from 9-8/10/2002.

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- # Representing the Kingdom of Saudi Arabia in the Ninth International Globe Conference, which was held in the city of Buraq, the Czech Republic, during the period from 31 July to 5 August 2005.
- # Representing the Kingdom of Saudi Arabia in the tenth International Globe Conference. which was held in the city of Phuket, Thailand from 30 July to 4 August 2006.
- # Participation in the third European Union biotechnology conference on the physiology of yeasts and filamentous fungi, which was held June 13-16, 2007 in Helsinki, Finland. With a paper entitled: The ability of yeasts isolated from sandy soil from the Kingdom of Saudi Arabia to oxidize sulfur.
- # Representing the Kingdom of Saudi Arabia in the Twelfth International Environmental Conference, which was held in Cape Town, South Africa, during June 22-27, 2008. With a paper entitled: GLOBE Development in the Kingdom of Saudi Arabia.
- # Participation in the Lake Ecosystem Conference that was held October 22-23, 2008 in Niagara, Toronto, Canada.
- # Participation in the Fifth Australian Symposium on Diseases in Soil that was held 5-7 February 2009 in Thredbo, Australia.