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### **Academic qualifications**

- Doctor of Philosophy, Paisley College and Royal Hospital of Sick Children and Glasgow Royal Infirmary, Glasgow, Scotland, U.K. (1979).
- Post doctor, University of California, Department of Medicine, Division of Infectious Diseases, San Francisco General Hospital, San Francisco, California. (1984-1985) worked on meningitis and endocarditis models, laboratory of Professor M. Sande.
- Post doctor, University of Edinburgh, Department of Microbiology, Scotland, 1997, working on characterization of  $\beta$ -lactamase enzyme, laboratory of Professor S. Amyes.

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### **Administration Activities**

- Vice –President, Arab Society of Chemotherapy, Microbiology and Infectious Diseases (ASCMID) (2000-2015),
- Demonstrator, Biology Department, Paisley College of Technology, Glasgow, Scotland, U.K. (1974 - 1978),
- Assistant Professor (1979), Associate Professor (1981) and Professor (1985), King Saud University, Riyadh, Saudi Arabia,

- Head of Microbiology section, Central Laboratory for drugs and food analysis, Ministry of Health (1991-1995),
- Professor of Microbiology, College of medicine ,Al Faisal University, Riyadh (2007 – to date),
- Adjunct principle scientist, Department of infection and immunity, King Faisal Hospital specialist hospital and research centre, Riyadh, Saudi Arabia (2012 – to date),
- Ambassador for the American society of Microbiology for the Middle East and North Africa region (2011 - to date),
- Consultant ,Saudi Food and Drug administration (sFDA) 2013 –to date
- Advisor to Saudi Centre for Disease Control (s CDC) 2014
- Chairman, International affairs committee, ESCMID Executive committee 2015
- Chairman of Microbiology and Immunology Department, College of Medicine ,Al faisal University (2016 to date)
- Director of Infection control master degree program, College of Medicine ,Al faisal University ,(2014 to date )
- Chairman of Advisory board ,College of science, Al faisal University (2017 )
- Chairman of Academic Development committee, Al faisal University (2017 to date)

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## Professional activities

### **Teaching Assignments**

- Assisted in teaching courses in Microbiology for B.Sc. Degree in Biology and also to Higher National Certificate (HNC), Paisley College of Technology, Glasgow, Scotland,

- Supervised research projects of a number of final year students, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia, (1977-1980),
- Teaching different courses in General Microbiology, Diagnostic Microbiology and related topics at College of Pharmacy, King Saud University, Riyadh, Saudi Arabia (1977-to date),
- Involved in teaching Microbiology courses for postgraduate students at the Department of Pathology, College of Medicine, King Saud University, Riyadh, Saudi Arabia (1987-1997),
- Teaching post-graduate courses for dental school, Maxillary-facial fellowship, Arab Board (2000-to date),
- Teaching Microbiology and immunology courses ,College of Medicine, Al Faisal University, Riyadh, Saudi Arabia (2007 – to date)
- External Co-advisor, MSC students, College of Engineering Degradation of Petroleum by bacteria. (2000),
- External examiner MS.C, Ph.D. students around the Kingdom universities,
- Advisor, MSC student, College of Pharmacy and College of Science.
- Teaching Microbiology courses, college of science, Al Faisal university, Riyadh, Saudi Arabia (2007 – to date)
- Teaching Master degree in Infection control ,Alfaisal university ,college of medicine 2014 to date

### **Research institutions and Journals affiliations:**

Editorial board for:

- International Journal of Antimicrobial agent( 2008- to date)
- Journal of infection and public health (2006 –to 2013)
- Journal of Epidemiology and public health (2011 – to date)
- Journal of Chemotherapy (2000 to date)
- Journal of Global Antimicrobial Resistance 2013 –to date

Reviewer for:

- King Abdul-Aziz City for Science and Technology, (1985-todate)
- Research committee of the research centre ,KFSHRC,(1992-2002)
- Saudi Medical Journal (1988-1998).
- Annals of Saudi Medicine, (1988-2000).
- Saudi Biological Journal, (1985-2010).
- Journal of Chemotherapy (1984-to date).
- International Journal of anti-microbial agents (1996-2004).
- Saudi Pharmaceutical Journal, (1990-to date).

**Member of:**

- Scientific Advisory board of Alliance for the Prudent Use of Antibiotics (APUA) (1998-to date),
- Advisory Board, Journal of Chemotherapy (1984-to date),
- Editorial Board for International Journal of anti-microbial agents (2002-2006),
- Editorial Board for the practitioner, East Mediterranean edition (1990-1994),
- Editorial Board, International Journal of Infectious Diseases (1996- to date),
- Advisory Board, WHO for coordinating clinical study on Brucellosis in Saudi Arabia using new regimes (1999),
- Organizing several training programs for medical laboratory doctors and technicians, Ministry of Health (1996-to date),
- Antibiotic Committee, King – Khalid University hospital, Riyadh (1987-1992),
- Asian Network for surveillance of resistant pathogens (ANSORP), Seoul, Korea (1998-to date) collaborating in surveillance of pneumococcal resistance among; clinical isolates, nasal carriage and invasive pathogens from Asian countries,

- Member of the National Committee of Immunization for Ministry of Health (2007-to date),
- Editorial Board of Pharmaceutical Journal, Arabian edition (2006-to date),
- Council of the International Society of Infections disease (1991-to date),
- Member of the Infectious Diseases committee, Ministry of health, Riyadh, Saudi Arabia (2012 –to date),
- Member of the council of Mediterranean Society of Chemotherapy 2015

**Coordinator of:**

- Community acquired pneumonia guidelines in Saudi Arabia (2000-2002) published in International Journal of anti-microbial agents, 2002,
- Hospital acquired Pneumonia (Nosocomial) guideline in the Gulf (2005-2007), will be published in Journal Chemotherapy, 2007,
- Surveillance study carried out in Cairo on MRSA in 1997,
- National project on surveillance of antibiotic resistance in the Kingdom (25 Hospital around the Kingdom) sponsored by King Abdul-Aziz City for Sciences and Technology (KACST) from 2000 to 2005 costing (US \$ 200,000),
- Surveillance of antibiotic resistance of respiratory isolates within the Kingdom,
- Surveillance of antibiotic resistance in ICU isolates from Hospital around the Kingdom,

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**Industrial relationship:**

I worked as part time consultant or as advisor for a number of industrial pharmaceutical companies to establish and organizing laboratories investigation studies and clinical trials, also discussing issues related to manufacturing and quality control and participating in the developments of strategies for the futures.

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**Other Activities:**

- Academic Advisor, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia (1978-todate).
- Supervisor of the senior Pharmacy students' research projects, College of Pharmacy, King Saud University, Riyadh, Saudi Arabia (1978-1980).
- Member of various committees in the College and University.
- Consultant, Ministry of Health, Saudi Arabia (1988-todate).

**Assignments:**

- Registration of Pharmaceutical drugs.
- Review of Pharmaceutical files and clinical trials.
- Investigation of activities of antibiotics, antifungal drugs in drug analysis lab.
- Member, Committee to set up rules and regulations for drug registration.

**Assignments:**

- Setting up antibiotic policies for Ministry of Health Hospitals
- Carry out surveillance studies.
- Participation in the committee to set up antibiotic Formulary for the Ministry of Health.

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## Grants and Awards

- Grant from the Scottish Research Council for Ph.D. Studies (1973-1977).
- Two Merit Awards awarded by King Saud University as honorarium of two months' salary (1980 & 1981).
- **Grant from the Ministry of Health, Riyadh to investigate the problem of meningococcal meningitis during Hajj to recommend the possible ways to reduce the epidemic in future 1989-1991 (costing US\$ 20,000)**
- Grant from Arab Co. for Drug Industries and Medical Appliances (ACDIMA), Amman, Jordan to study justification of antibiotic combinations manufactured by some Arab Pharmaceutical Companies (1992-1995 (costing US \$ 40,000)
- Grant from Saudi Pharmaceutical Industry and Medical Appliances (SPIMACO) to student formulation and evaluation of an alcohol free mouthwash (available in the market) (2000 – 2001 (costing US \$ 20,000).
- Participated as an Investigator for the Lomofloxacin International Surveillance Trials. 1997-2000
- Member of the Investigators group of the International Committee to test the susceptibility of clinical isolates against various antibiotics supported by WHO (Chairman, Professor J. Lacy, Leeds, U.K.) (1988)
- Grant from KACST to study the Microbial contamination of paper Money 2004-2005 (US \$ 20,000).
- Grant from Ministry of health and Pfizer Pharmaceutical to study the epidemiology and serotypes distributions of S pneumonia, Saudi Arabia (2006 –to date)
- Grant from Novartis Pharmaceutical to study the nasopharyngeal carriage of respiratory flora during Hajj sessions. (2010 -2012)
- Grant from Ministry of Health to study the mechanisms of resistance of Gram negative bacteria resistant to Carbapenems. (2012 –to date)

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## Memberships Societies:

- British Society of Antimicrobial Chemotherapy.
- Pathological Society of Great Britain and Ireland.
- American Society of Microbiology.
- European Society of Clinical Microbiology and Infectious Diseases.
- Infectious Diseases Society of America.
- International Society of Infectious Diseases.

- Mediterranean Society of Chemotherapy.

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**Conferences / Presentation (Oral/Poster) and Educational programs**

- Attended several national and international scientific meetings as a speaker, participating in different oral and poster sessions.
  - Invited to chair and deliver talks on topics related to antibiotic resistances, use and misuse, policies, pharmacokinetics and pharmacodynamics and also topics related to infection control.
  - Organizing several workshop programs locally and nationally on antibiotics susceptibility testing techniques.
  - Contributes to educational programs organised by European society of clinical microbiology and infectious diseases(ECCMID) giving talks ,one at Al Ain on antimicrobial resistance 2011 and one on neglected diseases at Cyprus 2013
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- Mediterranean Society of Chemotherapy.

**Contribution to Scientific Meetings:**

I have contributed to several national and international scientific meetings as a speaker, participating in different oral and poster sessions. I have also been invited to chair and deliver talks on topics related to antibiotic resistances, use and misuse, policies, pharmacokinetics and pharmacodynamics and also topics related to infection control. In addition to this, I organized several workshop programs locally and nationally on antibiotics susceptibility testing program. There are several ongoing researches that I continue to work and speak about.

**Book:**

- Two concise chapters in Gorbach's 5 Minute Infections Diseases Consult, 2<sup>nd</sup> edition, edited by M. Falagas and E. Mylonakis, Walters Klumr / Lippincott Williams and Wilkins.  
Roundworms, intestinal pg. 346.  
Non-typhoidal Salmonella infections pg. 290.



## **Personal Achievements**

I have worked in the field of antibiotics in many aspects. After obtaining my Ph.D. in 1977, I have published over 100 papers, taught lectures related to Microbiology courses. Served as an editor or board member for Scientific Journals and as a board member of some societies; as well as various governmental committees.

My early research was on the effect of antibiotic on host/parasite relationship. My other early work explored the evaluation of antibiotic on experimental meningitis models.

Since 1985 my research centred on antibiotic resistance mechanism and surveillance programs. With the beginning of the millennium, I became increasingly involved in investigating the epidemiology of resistance and stereotype of different pathogens across the Kingdom. I led to groups that demonstrated the rises in prevalence of antibiotic resistance practically in relation to Acinitobacter and Pseudomonas and the new NDM-1 enzymes practically in Klebsiella. I led a national surveillance program on collecting and testing all invasive Pneumococci before and after introduction of the Pneumococcal vaccine. In addition to this, I have assisted in the setup community acquired pneumonia guideline and was published in 2007, with the collaboration with other colleagues. Besides original research, I have written numerous reviews aiming for accessibility of the data. I have gained experience of working with broadcast and print media.

## **Publications**

Up request (please refer to PubMed under shibl a)

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