

# **CURRICULUM VITAE**

## **Ayman M. Noreddin Ph.D.**

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### **EDUCATION AND PROFESSIONAL EXPERIENCE**

- 2017-           **Dean, College of Pharmacy, The Sharjah University**
- 2016-           **Visiting Researcher, University of California-Irvine, School of Medicine**
- 2015-2016      **Professor of Pharmacy Practice**  
**Chapman University, School of Pharmacy**
- 2015-2016      **Associate Dean of Academic Affairs**  
**Chapman University, School of Pharmacy**
- 2013- 2015     **Professor and Chair of the Department of Pharmacy Practice**  
**Hampton University, School of Pharmacy**
- 2011-           **Graduate Faculty,**  
**Biomedical Sciences Graduate Program, Eastern Virginia Medical School**
- 2009-           **Chairperson, Department of Pharmacy Practice,**  
**School of Pharmacy, Hampton University**  
- Developed a strategic plan to improve the department's endeavor in teaching, research and service  
- Lead the department of Pharmacy Practice to achieve the following specific strategic goals within the school of pharmacy:  
    1) Successful ACPE accreditation  
    2) Increased scholarly activity and research focus  
    3) Innovation in teaching  
    4) Community engagement (faculty and students' involvement)  
    5) Early Research Experience for Pharmacy Students  
    6) Establishment of Medication Therapy Management and Outcome Research Center
- 2008           **Fellow-Academic Leadership Program,**  
**The American Association of Colleges of Pharmacy (AACP)**  
-The leadership training program covered the following aspects:  
    1) Personal and interpersonal competencies for leadership  
    2) Practical management responsibilities and administrative competencies of an academic pharmacy administrator  
    3) Leadership in the external arena of advocacy and the profession

- 2005-2009     **Graduate Faculty,**  
**Department of Experimental and Clinical Pharmacology,**  
**College of Pharmacy, University of Minnesota**  
- Participated in the strategic planning and graduate admissions  
- Participated in graduate courses, seminars and directed studies  
- Supervised graduate student
- 2005-2009     **Senior Clinical Scientist,**  
**Division of Education and Research,**  
**St. Mary's Duluth Clinic - Health System**  
-Participated in the clinical research program management  
-Reviewed and refereed grant proposals
- 2004-2009     **Associate Professor,**  
**Department of Pharmacy Practice and Pharmaceutical Sciences,**  
**College of Pharmacy (Duluth), University of Minnesota**  
-Nominated as the Teacher of the Year (2008)  
-Participated in several didactic lectures, experiential instructions, along with  
  advising, training and mentoring activities  
-Developed an active and well-funded translational research program in the field of  
  Pharmacokinetic/Pharmacodynamic (PK/PD) modeling of anti-infective/ anti-  
  neoplastic therapy, clinical simulation analysis and bacterial resistance studies  
-Supervised graduate students and post doctorate fellows  
-Participated in several strategic planning activities, task forces and committee service
- 2001-2004     **Director, Clinical Pharmacology Research,**  
**Manitoba Antibiotic Research Laboratory,**  
**Department of Medical Microbiology/Infectious Diseases,**  
**Faculty of Medicine, University of Manitoba**  
- Supervised and directed research activities in the field of PK/PD modeling, clinical  
  simulation and bacterial resistance studies.  
- Conducted advanced PK, Population PK and Monte Carlo Simulation analysis
- 2002-2004     **American College of Clinical Pharmacy/Aventis Pharmacotherapy,**  
**Research Fellowship (Infectious Diseases),**  
**Research Institute of the American College of Clinical Pharmacy**  
Primary research project: "*Study of Fluoroquinolones Resistance in Clinical Isolates*  
*of Streptococcus pneumoniae: Molecular and Pharmacodynamic Approach*"  
- Taught in Faculty of Pharmacy, University of Manitoba  
  Clinical Pharmacy and Elective courses to 3<sup>rd</sup> and 4<sup>th</sup> year pharmacy students)  
- Participated in infectious diseases consultation rounds.
- 2002-2004     **Faculty Member, Department of Continuing Medical Education,**  
**Faculty of Medicine, University of Manitoba**  
- Organized and provided Teaching Improvement Programs (TIPs) for faculty  
  members and medical staff  
- Organized medical education programs and workshops at the Faculty of Medicine.

- 2000-2001 **Pharmacokinetic/Pharmacodynamic Research Fellow (Infectious Diseases), Department of Medical Microbiology/Infectious Diseases, Faculty of Medicine, University of Manitoba**  
- Conducted, research in the field of PK/PD modeling, clinical simulation analysis and bacterial resistance studies.  
- Taught in Faculty of Pharmacy, University of Manitoba  
- Participated in infectious diseases consultation rounds
- 1994-2000 **Associate Professor of Clinical Pharmacy, Faculty of Pharmacy, King Saud University**  
- Taught didactic and graduate clinical pharmacy courses  
- Supervised clinical rotations for B.Sc. students  
- Directed clinical pharmacy practice service (Infectious Diseases) at King Khalid University Hospital
- 1991-1994 **Assistant Professor of Clinical Pharmacy, Faculty of Pharmacy, King Saud University**  
- Taught didactic and graduate clinical pharmacy courses  
- Supervised clinical rotations for B.Sc. as well as M.Sc. (clinical pharmacy) students  
- Directed clinical pharmacy practice service (Infectious Diseases) at King Khalid University Hospital  
- Conducted clinical pharmacy research and supervised M.Sc. (clinical pharmacy) research projects  
- Participated in different committees at the College of Pharmacy
- 1994-2000 **Director of the Research and Continuing education committee, Saudi Pharmaceutical Society (SPS)**  
- Promoted research activities for pharmacists  
- Designed, supervised as well as participated in many continuing education programs for pharmacists offered by the SPS and pharmaceutical industry  
a) "PharmAssst" program (SKB)  
b) "PharmCare" program (GLAXO/WELLCOM)  
c) "Pediatric Care" program (NOVARTIS)
- 1990-1991 **Staff Pharmacist, Kaiser Permanent Hospital, Sunnyvale, CA.**  
Pharmacy license (California) No: 43354
- 1987-1991 **Visiting Scholar, Department of Medicine/Oncology, Stanford University, Faculty of Medicine, Palo Alto, California, USA.**  
*Molecular Biology, tissue culture and gene expression studies*
- 1985-1991 **Ph.D. [Pharmaceutical Sciences (Clinical Pharmacy)], University of the Pacific, School of Pharmacy, Stockton, California, USA.**  
Thesis: *(Phase I study of toxicity, tolerance and certain metabolic effects of TNF administered as a continuous infusion to cancer patients)*
- 1985-1990 **Teaching Assistant (Pharmacokinetics, Pharmacology), School of Pharmacy, University of the Pacific, Stockton, California**

- 1984-1985     **Visiting Scholar, Department of Medicine/Atherosclerosis Research Unit  
Faculty of Medicine, Miami University, Miami, FL, USA.**  
*Lipoprotein fractionation, lipid and protein analysis*
- 1984            **Professional License (Clinical Analysis).**  
Ministry of Health, Cairo, Egypt
- 1981-1984     **MS. [Pharmaceutical Sciences (biochemistry)], Cairo University,  
College of Pharmacy, Cairo, Egypt**  
*Thesis: (Effect of gamma irradiation on the chemical structure, biological activity and certain  
metabolic effects of contraceptive hormones in rats)*
- 1976-1981     **Laboratory Supervisor, Central Medical Laboratories, Cairo, Egypt**  
*Clinical chemistry and hormone analysis*
- 1971-1976     **BS. Pharmaceutical Sciences, Cairo University,  
School of Pharmacy, Cairo, Egypt.**

#### **ADDITIONAL TRAINING**

- October 2016     **Medication Therapy Management Certificate**, American Pharmacy  
Association, VA
- May            2015            **Point of Care Certificate**, American Pharmacy Association, VA
- April            2014            **Quality Service Training program (Connections)**, Hampton  
University, VA
- September 2013     **Strategic Academic Leadership Training (SALT)**, Hampton  
University, VA
- November 2012     **12<sup>th</sup> Annual Executive Leadership Summit**, Hampton University, VA
- September 2012     **Strategic Academic Leadership Training (SALT)**, Hampton  
University, VA
- October        2011            **Grant Writing workshop**, Hampton University Skin of Color Research  
Institute, VA
- September 2011     **Strategic Academic Leadership Training (SALT)**, Hampton  
University, VA
- March            2011            **Leadership Development Training**, Hampton University, VA
- December 2010     **Funding Opportunities Research workshop**, Hampton University, VA

October 2010 **ACPE's Site-Team Evaluator Training workshop**, Accreditation Council for Pharmacy Education (ACPE), Chicago, IL

September 2010 **Strategic Academic Leadership Training (SALT)**, Hampton University, VA

September 2010 **Faculty Institutional Retreat**, Hampton University, VA

August 2010 **Administrative Retreat "Enhancing the University Landscape: Planting Seeds... Growing Even Greater reputation"**, Hampton University, VA

November 2009 **"Writing a Successful Grant for the National Institute of Health", Faculty Development Workshop**, Hampton University, VA

October 2009 **Strategic Academic Leadership Training (SALT)**, Hampton University, VA

August 2009 **Faculty Institutional Retreat**, Hampton University, VA

August 2009 **Faculty Development Workshop**, Hampton University, VA

June 2009 **New Developments in Hollow Fiber Cell Culture**, FiberCell Systems Inc

March 2009 **More In Vivo-Like Cell Cultures**, Corning Inc

February 2008 **Write Winning Grants**, University of Minnesota, MN 2008

April 2007 **Ref Works training seminar**, University of Minnesota, MN 2007

April. 2006 **Grant Writers' Seminar**, University of Minnesota, MN, 2006

October 2005 **Basic training for new clinical faculty and professors**, American College of Clinical Pharmacy (ACCP) Annual Meeting, SF, 2005

October 2005 **Cost effectiveness analysis**, Healthcare standard training, TreeAge Software Inc. SF, 2005

September 2004 **Microdialysis: Basics and Principles workshop**. World Conference on Dosing of Anti-infective (WCDA), Nurnberg, Germany. 2004

October 2004 **The Leadership Experience**. American College of Clinical Pharmacy (ACCP) Annual meeting, Dallas, TX, 2004

March 2003 **Advanced Clinical Pharmacokinetic Hands on Training using Winnonlin Program**, Pharsight Corporation, Mountain Views, CA

October 2002 **Population Pharmacokinetic/ Pharmacodynamic (PK/PD) Modeling**,

- On-site training at the Laboratory of Applied Pharmacokinetics, USC,  
School of Medicine, LA, CA
- October 2002 **New Unified Parametric and Nonparametric Approach to Population PK/PD Modeling-Application to therapeutic Drug Monitoring and to Optimal Individualization of Drug therapy**, hands on workshop by the Laboratory of Applied Pharmacokinetics, USC, School of Medicine, LA, CA
- September 2002 **Advanced Risk analysis**, advanced course using Crystal Ball Pro software. Decioneering Inc., San Diego, CA
- July 2002 **Risk Analysis, Decision analysis and Monte Carlo Simulation**, Introduction and advanced Courses using Crystal Ball software. Decioneering Inc., Minneapolis, MN
- March 2002 **Microdialysis as a Gateway to New Knowledge**, workshop during the ACCP Practice and Research Forum. Savannah, Georgia.
- December 2001 **Teaching Improvement Program (TIPs)**, One week hands on workshop, Department of Continuing Medical Education, Faculty of Medicine, University of Manitoba
- September 2001 **Bacterial Resistance: Mechanisms, Detection, Pharmacology, and Molecular Epidemiology**, workshop during the ICCAC meeting, Chicago, IL
- November 2000 **Model-Based, Goal-Oriented Optimal Individualized Drug Therapy: Relationship to Parametric and Nonparametric Population PK/PD Modeling, Therapeutic Drug Monitoring, and Multiple Dosage Design**, hands on workshop by the USC Laboratory of Applied Pharmacokinetics, USC, School of Medicine, LA, CA
- March 2000 **Parametric and Nonparametric Population PK and PD Modeling: Application to Multiple Model Dosage Design and Optimal Sequential Bayesian Feedback for Optimal Patient Care**, hands on workshop by The USC Laboratory of Applied Pharmacokinetics, School of Medicine, LA, CA
- 1986-1989 **Molecular Biology techniques including rDNA, RNA, tissue culture and gene expression studies**, Frank Torti M.D. Research Lab., Faculty of Medicine, Stanford University, CA
- 1985-1986 **Lipoprotein fractionation, lipid and protein analysis**, Atherosclerosis Research Lab., Faculty of Medicine, Miami University, Miami, FL

## **HONORS AND AWARDS**

- Reviewer for the National Institute of Health (NIH), special session: “Drug Discovery and Mechanisms of Antimicrobial Resistance”, February, 2017
- Invited speaker at the 1<sup>st</sup> ACU International Conference of Pharmaceutical Sciences On New Trends in Pharmaceutical and Medical Research, Giza, Egypt, May 2016
- Invited speaker at the Faculty of Pharmacy, UNICAPM University, Campinas, Brazil, August, 2016
- Key Note speaker at the 3<sup>rd</sup> international Conference on Clinical Pharmacy, Atlanta, Ca, December, 2015
- Invited speaker at the 3<sup>rd</sup> FUE International Conference of Pharmaceutical Sciences, Feb, 2015, Cairo, Egypt
- Reviewer for the National Institute of Health (NIH), special session: “Drug Discovery and Mechanisms of Antimicrobial Resistance (DDR)”, June, 2015
- Reviewer for the National Institute of Health (NIH), special session:” Pharmacological Approached to Evaluating Drug Regimens to Address Antimicrobial Resistance”, January 2014
- Member of the Organizing Committee, Plenary Speaker, International Summit on Clinical Pharmacy and Dispensing, San Antonio, TX, 2013
- Member of Organizing Committee, Keynote Speaker and Chair, International Congress on Bacteriology and Infectious Diseases, Baltimore, 2013
- Co-Chair, Infectious Diseases Session, International Conference on Clinical Microbiology and Microbial Genomics, San Antonio, TX, 2012
- Session Chair, Clinical trial-Part II, TM’s 2nd World Drug Discovery online conference, 2012
- Member of the Editorial Board of the International Journal of Tumor Therapy, 2012
- Board member, Egyptian Cancer Network 2011
- Invited speaker: Meet-the-Professor Session, Infectious Diseases Society of America meeting 49<sup>th</sup> Annual Meeting, 2011
- Session Chair, Clinical trial-Part II, TM’s 1<sup>st</sup> World Drug Discovery online conference, 2011
- Member of the advisory council for Egypt Cancer Network, 2011
- Member of the Scientific Board, IN-Tech-Open Access Publisher, 2011
- Editor in Chief. InTech- Open Access Publisher, 2011
- Member of the Editorial Board of the Journal of Drug Metabolism & Toxicology, 2011
- Member of the Editorial Board of International Scholarly Research Network (ISRN) Pulmonology, 2011
- Invited advisor to the Faculty of Pharmacy, Al-Fateh University, Tripoli, Libya, 2010.
- Member of the editorial board of the “Egyptian Journal of Pharmaceutical Sciences”, Cairo University, Cairo, Egypt, 2010
- Reviewer for the National Institute of Health (NIH), 2009
- Elected advisor. Multicultural Pharmacy Students Organization, University of Minnesota, Duluth, 2008
- Advisor for the Pharm.D. 2012 class, College of Pharmacy, University of Minnesota, Duluth, 2008
- Teacher of the Year, College of Pharmacy, Duluth, University of Minnesota, 2007-2008
- Teacher of the Semester, College of Pharmacy, Duluth, University of Minnesota, Fall 2007

- Member of the Scientific Review Program, Division of Extramural Activities, National Institute of Allergy and Infectious Diseases, National Institutes of Health (NIH), Department of Health & Human Services, 2008
- American College of Clinical Pharmacy/Aventis Pharmacotherapy Research Fellowship (Infectious Diseases), 2002
- Director of the continuing education and research committee - Saudi Pharmaceutical Society, 1996
- Membership in the Rho Chi Pharmaceutical Honorary Society, CA, USA, 1986
- Graduate Students Fellowship, School of Pharmacy, University of the Pacific, 1985
- Graduate Students Representative, School of Pharmacy, University of the Pacific, 1985
- Oncology Project Grant for Pharmacy Students, the American Cancer Society, California, 1985
- Peace Fellowship to conduct graduate study in the USA, 1984

## **TEACHING AND ACADEMIC CONTRIBUTION**

### **\*TEACHING**

2015-present (**Chapman University**)  
PHRM 632 Applied Pharmacokinetics  
PHRM 711 (Capstone Research Project)

2009-2015 (**Hampton University**)

#### **Didactic Courses**

(PHA 301) Pharmaceutical Care 1:  
(PHA 531) Research Methods  
(PHA 463) Pharmacokinetics  
(PHA 490) Introduction to Clerkship  
(PHA 585) Drug Disease Management VI  
(PHA 535-536) Independent study (course coordinator)

#### **Experiential Instructions:**

(PHA 696) Institutional Externship

2004-2009 (**University of Minnesota**)

#### **Didactic Courses**

(PHAR 6124) “Pharmacotherapy IV: Patient-Centered Pathophysiologic Approach”  
(PHAR 6163) “Pharmacokinetics”  
(PHAR 6164) “Biopharmaceutics”  
(PHAR 6156) “Medicinal Agents III, (Anti-infective agents)”.

#### **Graduate Courses**

(ECP 8992) Directed Readings in Experimental and Clinical Pharmacology- Graduate Course. Direct and interactive discussion with student about new topics and controversies in Clinical Pharmacology  
(ECP 8993) Directed Study-Graduate Course. Advanced research topics interactive discussions with hands-on training

(ECP 8900) Advanced Topics: Graduate Course. Graduate level advanced discussion about research topics and controversies in the field of pharmacotherapy and clinical pharmacology

#### **Experiential Instructions**



Advanced Pharmacy Practice Experience (Research).  
PHAR 7001/2/3/4 “Early Pharmacy Experience with Community Teachers (EPhECT).”  
Undergraduate Research (Undergraduate Research Opportunity Program) “UROP”.  
PHAR 6293, Directed Study.  
PharmD paper advising

2000-2004 **(University of Manitoba)**  
(PHRM 3310) Clinical Pharmacy VI  
(PHRM 4479) Current Topics.

1991-2000 **(King Saud University)**  
*Courses are taught in English*  
(PHCL382) Pathophysiology  
(PHAR 441,442) Therapeutics  
(PHCL 453) Clinical Pharmacy Clerkship I, II  
Graduate courses (Master Degree-Clinical Pharmacy)  
(PHCL 501) Advanced Therapeutics III (Infectious Diseases)  
(PHCL557) Clinical Clerkship (Infectious Diseases)

### **\* Advising, Mentoring and Training**

-Graduate Students: Seven (MS), Two (PhD)  
-Post Doctorate Fellows: Three  
-Pharm.D. Students: Eight students (Early Research Experience Program)  
-External Thesis Examiner: Two (MS)  
-Mentoring of many students and faculty members

#### **SPECIAL MENTORING**

Mai Tolba (Fulbright Scholar)  
Walid Elkhatib, (Post Doctorate Fellow)  
Nikechi Agowa, (International Student)  
Angels Reese, Pharm.D. (Student-Melendy Scholarship)  
Ghada Ahmed, (PhD Student-Clinical and Translational Research)  
Ahmed Salem, (PhD Student-Clinical and Translational Research)  
Jacob Deibel (Governor’s School mentoring program)

### **PROFESSIONAL SERVICE**

## a) Institutional Service

### **Chapman University:**

Associate Dean of Academic Affairs  
Several college and University committees

### **Hampton University:**

#### **Leadership** (Chairperson of the Department of Pharmacy Practice)

-Provided mentorship to junior faculty in the department of Pharmacy Practice and participated in the overall governance of the School of Pharmacy.

-Lead the HUSOP recruitment efforts.

-Played an active role in accreditation-related activities,

I initiated and lead the efforts toward establishing the Hampton University School of Pharmacy (HUSOP)'s Medication Therapy Management and Outcome Research Center.

-leading the efforts toward increasing community engagement of faculty and professional pharmacy students. Successfully secured several community access sites in collaboration with local community health service organizations.

- HOPES Free Clinic
- Senior Services of Southern Virginia
- HIV/AIDS clinics at Hampton Roads Area
- Newport News Free Clinic

-Participated in offering several professional development activities at Hampton University:

- Strategic Administration Leadership Training (SALT), Hampton University, VA
- Faculty Development Workshops, Hampton University, VA
- Grant Writing Seminars, Hampton University, VA

- Transformed the Drug Information Center (DIC) into a fully functioning Drug Information Center to serve Hampton University, as well as Hampton Roads community.

### **Committees**

#### School of Pharmacy:

Executive Council committee

Admission and academic standards committee

FRC (chair)

Graduate Program and Research committee

Academic Affairs committee (ex officio)

Assessment committee (ex officio)

ACPE interim report committee (ex officio)

Technology committee (chair)

Hampton University

Pharmacy dean search committee  
Experiential education committee  
University catalogue committee  
Liaison committee to the President

Professional:

American Association of Colleges of Pharmacy (AACP) research committee  
American Association of Colleges of Pharmacy (AACP) abstract review committee  
Accreditation Council for Pharmacy Education (ACPE) Self Study Group: Mission Planning and Evaluation  
Executive Council Committee, School of Pharmacy, Hampton University  
Research Committee, School of Pharmacy, Hampton University  
Curriculum Revision Committee, School of Pharmacy, Hampton University  
Assessment Committee, College of Pharmacy, University of Minnesota  
Technology Committee, College of Pharmacy, University of Minnesota  
Research Committee, St. Mary's- Duluth Clinics  
American College of Clinical Pharmacy (ACCP) Fellows Committee

**b) National and international Service:**

- Member of the Organizing Committee, Plenary Speaker, International Conference on Clinical Pharmacy, 2015
- Member of the Organizing Committee, Plenary Speaker, International Summit on Clinical Pharmacy and Dispensing, 2013
- Member of Organizing Committee, Keynote Speaker and Chair, International Congress on Bacteriology and Infectious Diseases, 2013
- Session Chair, International Conference on Clinical Microbiology and Microbial Genomics, 2012
- Session Chair, Clinical trial-Part II, TM's 2nd World Drug Discovery online conference, 2012
- Member of the Editorial Board of the International Journal of Tumor Therapy, 2012
- Board member, Egyptian Cancer Network 2011
- Session Chair, Clinical trial-Part II, TM's 1<sup>st</sup> World Drug Discovery online conference, 2011
- Member of the advisory council for Egypt Cancer Network, 2011
- Member of the Scientific Board, IN-Tech-Open Access Publisher, 2011
- Editor in Chief. InTech- Open Access Publisher, 2011
- Member of the Editorial Board of the Journal of Drug Metabolism & Toxicology, 2011
- Member of the Editorial Board of International Scholarly Research Network (ISRN) Pulmonology, 2011
- Invited advisor to the Faculty of Pharmacy, Al-Fateh University, Tripoli, Libya, 2010.
- Member of the editorial board of the "Egyptian Journal of Pharmaceutical Sciences", Cairo University, Cairo, Egypt, 2010
- Elected advisor. Multicultural Pharmacy Students Organization, University of Minnesota, Duluth, 2008
- Advisor for the Pharm.D. 2012 class, College of Pharmacy, University of Minnesota, Duluth, 2008
- Member of the Scientific Review Program, Division of Extramural Activities, National Institute of Allergy and Infectious Diseases, National Institutes of Health (NIH), Department of Health & Human Service, 2008

- Director of the continuing education and research committee - Saudi Pharmaceutical Society, 1996
- Graduate Students Representative, School of Pharmacy, University of the Pacific, 1985 .

### **PUBLICATIONS**

1. El Zowalaty ME, Belkina T, Bahashwan SA, El Zowalaty AE, Tebbens JD, Abdel-Salam HA, Khalil AI, Dagheriry SI, Gahtani MA, Madkhaly FM, Nohi NI, Khodari RH, Sharahili RM, Dagheriry KA, Khormi M, Habibah SA, Medrba BA, Gahtani AA, Hifthi RY, Zaid JM, Amshan AW, Alneami AA, **Noreddin A**, Vlček J. Knowledge, awareness, and attitudes toward antibiotic use and antimicrobial resistance among Saudi population. *International Journal of Clinical Pharmacy*. 38(50): 126-8, 2016.
2. Ansari WK, Parvej MS, El Zowalaty ME, Jackson S, Bustin SA, Ibrahim AK, ElZowalaty AE, Rahman MT, Zhang H, Khan MF, Ahamed MM, Rahman MF, Rahman M, Nazir KH, Ahmed S, Hossen ML, Kafi MA, Yamage M, Debnath NC, Ahmed G, Ashour HM, Masudur Rahman M, **Noreddin A**, Rahman MB. Surveillance, epidemiological, and virological detection of highly pathogenic H5N1 avian influenza viruses in duck and poultry from Bangladesh. *Vet Microbiol*. 25(193): 49-59, 2016.
3. Ali AM, **Noreddin AM** and Mahmoud MA. Helicobacter pylori Infection and Its Potential Role in Childhood Eczema. *J Immunol Tech Infect Dis* 5:1; 1-5, 2016.
4. **Noreddin AM\***, Ndemo FA and Ombengi DN. Medication Therapy Management (Editorial), *J Pharma Care Health*. 3(2): 1, 2016.
5. Ombengi DN, Ndemo FA, **Noreddin AM\*** and Harris WT. The Disease Burden and the Extent of Drug Therapy Problems in an Underserved Minority Population Receiving Medication Therapy Management at an Ambulatory Care Free Clinic. *J Pharma Care Health*. 3(2): 2-5, 2016.
6. 3. Ahmed GF, Elkhatib WF, and **Noreddin AM**. Inhibition of adhesion and invasion of *Pseudomonas aeruginosa* PAO1 to A549 lung epithelial cells by some natural extracts. *Journal of Infection and Public Health*. (J Infect Public Health. 7(5): 436-44, 2014.
7. Alrakaf S, Abdelmageed A, Kiersma M, Coulman SA, John DN, Tordoff J, Anderson C, **Noreddin A**, Sainsbury E, Rose G, Smith L. An international validation study of two achievement goal measures on pharmacy education context. *Adv Med Edu Pract*. 27; 5:339-45, 2014.

8. Elkhatib WF, and **Noreddin AM**. Efficacy of Ciprofloxacin-Clarithromycin Combination against Drug-Resistant *Pseudomonas aeruginosa* Mature Biofilm Using in Vitro Experimental Model. *Microbial Drug Resistance*. 20(6):575-82,2014.
9. Elkhatib WF, and **Noreddin AM**. *In Vitro* Antibiofilm Efficacies of Different Antibiotic Combinations with Zinc Sulfate against *Pseudomonas aeruginosa* Recovered from Hospitalized Patients with Urinary Tract Infection. *Antibiotics*. 3: 64-84, 2014.
10. Salem AH and **Noreddin AM**. Moxifloccacin in lower respiratory tract infections: *in silico* simulation of different bacterial resistance and drug exposure scenarios. *Journal of Chemotherapy*. J Chemother. 26(2):80-5, 2014.
11. Salem AH, Zhanel GG, Ibrahim SA, **Noreddin AM**. A. Monte Carlo Simulation Analysis of Ceftobiprole, Dalbavanancin, Daptomycin, Tigecycline, Linezolid and Vancomycin Pharmacodynamics Against ICU-Isolated MRSA. *Clin Exp Pharmacol Physiol*. December 2013.
12. Vera C. Campbell, **Ayman M. Noreddin**, David Ombengi, Wayne T. Harris, Ebony Andrews, Francis Ndemo, Neelam Azad, Anand Iyer, Corinne Ramaley, Johnson Deadre, Patricia L. Richards-Spruill, Marilyn Saulsbury. Calculations Across the Curriculum: An Innovative Approach to Improve Student's Ability to Perform Pharmaceutical Calculations. *American Journal of Pharmaceutical Education*. 77 (5): 109, 2013.
13. Zhanel GG, Yachison C, Nichol K, Adam H, **Noreddin AM**, Hoban DJ, Karlowsky JA Assessment of the activity of ceftaroline against clinical isolates of penicillin-intermediate and penicillin-resistant *Streptococcus pneumoniae* with elevated MICs of ceftaroline using an in vitro pharmacodynamic model. *J Antimicrob Chemother*.67(7):1706-11, 2012.
14. **Noreddin AM**, Elkhatib WF, Cunnion KG and Ghanel GG. Cumulative clinical experience from over a decade of use of levofloxacin in community acquired pneumonia; critical appraisal and role in therapy", *Drug, Healthcare and Patient Safety*.3:59–68,2011.
15. Salem A, Noreddin E, Zhanel G, **Noreddin A**. Comparative pharmacodynamics of ceftobiprole, daptomycin, linezolid, telavancin, tigecycline, and vancomycin in the treatment of methicillin resistant staphylococcus aureus: a monte carlo simulation Analysis. *J Vaccines*. 2:5,2011.
16. Zhanel GG, Rossnagel E, Nichol K, Cox L, Karlowsky JA, Zelenitsky S, **Noreddin AM**, Hoban DJ. Ceftaroline pharmacodynamic activity versus community-associated and healthcare-associated methicillin-resistant *Staphylococcus aureus*, heteroresistant vancomycin-intermediate *S. aureus*, vancomycin-intermediate *S. aureus* and vancomycin-resistant *S. aureus* using an in vitro model.*J Antimicrob Chemother*.66(6):1301-5,2011.

17. **Ayman M. Noreddin** and Walid F. ElKhatib Antibacterial Therapy in the Elderly. In: *Frontiers in Anti-Infective Drug Discovery*.1:1-12, 2010.
18. Salem AH, Elkhatib WF, and **Noreddin AM**. Pharmacodynamic assessment of vancomycin–rifampicin combination against methicillin resistant *Staphylococcus aureus* biofilm: a parametric response surface analysis. *Journal of Pharmacy and Pharmacology*. 63:73-79,2010.
19. Salem AH, Elkhatib WF, Ahmed GF, **Noreddin AM**. Pharmacodynamics of moxifloxacin versus vancomycin against biofilms of methicillin-resistant *Staphylococcus aureus* and epidermidis in an in vitro model. *J Chemother*.22(4):238-42,2010
20. **Noreddin AM** and Elkhatib WF. Levofloxacin in the Treatment of Community Acquired Pneumonia. *Expert Review of Anti-Infective Therapy*. *Expert Rev Anti Infect Ther*.8(5):505-14,2010.
21. Galal AM, Gul W, **Noreddin AM**, Slade D. An Update on the synthesis and antibacterial effects of Carbapenems. *Recent Pat Antiinfect Drug Discov*.5:23-42,2010.
22. **Noreddin AM** and El-Khatib WF. Novel *in vitro* pharmacodynamic model simulating ofloxacin pharmacokinetics in the treatment of *Pseudomonas aeruginosa* biofilm-associated infections. *Journal of Infection and Public Health*.2:120-128,2009.
23. El-Khatib WF and **Noreddin AM**. A new fluorogenic assay for monitoring and determining planktonic and biofilm forms of *Pseudomonas aeruginosa* viable count in vitro. *Journal of Rapid Methods and Automation in Microbiology*. 17:304-314,2009.
24. Zhanel GG, Voth D, Nichol K, Karlowsky JA, **Noreddin AM**, Hoban DJ. Pharmacodynamic activity of ceftobiprole compared with vancomycin versus methicillin-resistant *Staphylococcus aureus* (MRSA), vancomycin-intermediate *Staphylococcus aureus* (VISA) and vancomycin-resistant *Staphylococcus aureus* (VRSA) using an in vitro model. *J Antimicrob Chemother*.64(2):364-9,2009.
25. **Noreddin AM**, El-Khatib WF, Aolie, J, Salem AH and Zanel GG. Pharmacodynamic Target Attainment Potential of Azithromycin, Clarithromycin and Telithromycin in Serum and Epithelial Lining Fluid (ELF) of Community Acquired Pneumonia (CAP) Patients with Penicillin-Susceptible, Intermediate and Resistant *Streptococcus pneumoniae*. *International Journal of Infectious Diseases*.13(4):483-7.2009.
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**Noreddin AM**, Smith H, Schurek K, Nichol K, Hoban DJ and Zhanel GG Fluoroquinolone pharmacodynamic indices based on genetically derived break points for *S.pneumoniae*, Community Acquired Pneumonia Conference, Ontario, Canada, September 2003.

**Noreddin AM**, Marras TK, Sanders K, Chan CK, Hoban DJ and Zhanel G Pharmacodynamic target attainment analysis against *Streptococcus pneumoniae* using levofloxacin 500 mg and 750mg once daily in hospitalized patients with community acquired pneumonia, 11<sup>th</sup> International Congress of Pharmacotherapy (ICC), Durban, South Africa, June 2003.

**Noreddin AM**, Hoban DJ and Zhanel GG Use of Monte Carlo Simulation for gatifloxacin 400 Daily in hospitalized patients with Community Acquired Pneumonia. 11<sup>th</sup> International Congress of Pharmacotherapy (ICC), Durban, South Africa, June 2003.

**Noreddin AM**, Smith HJ, Nichol KA, Walkty AM, Hoban DJ and Zhanel GG Molecular Characterization of Clinical and Laboratory Fluoroquinolone -Resistant *Streptococcus pneumoniae*. American College of Clinical Pharmacy (ACCP), Palm Springs, CA, April 2003.

Zhanel G, Decorby M, **Noreddin A**, Bewick B, Laing N, Nichol K, Forgie L and Hoban D In-vitro Pharmacodynamic Modeling of Amoxicillin, Ceftriaxone and Penicillin G Versus Penicillin-Intermediate and Penicillin-resistant *Streptococcus Pneumoniae* Simulating Clinically Achievable Free Serum Concentrations: Implications for Breakpoint Determinations. Canadian Association of Microbiology and Infectious Diseases (CACMID), Halifax, NS, 2002.

**Noreddin A**, Marras T, Chan C, Kuti J, Nightingale C, Hoban D, and Zhanel G Pharmacokinetic Simulation of Levofloxacin in 263 Elderly Immunocompetent and 74 Immunocompromised Hospitalized Patients with Community Acquired Pneumonia. Canadian Association of Microbiology and Infectious Diseases (CACMID), Halifax, NS, 2002.

Zhanel G, Wierzbowski A, Nichol K, **Noreddin A**, and Hoban D Activity of ABT-773 vs. Macrolide-Susceptible and –Resistant *S. pneumoniae*, *H.influenzae* and *M.catarrhalis*: Results of a 3 Year (1999-2002) Canadian Respiratory Organism Surveillance Study (CROSS) Interscience Congress of Antimicrobial Agents and Chemotherapy (ICCAC), San Diego, CA, 2002.

**Noreddin A**, Marras T, Chan C, Kuti J, Nightingale C, Hoban D and Zhanel G Pharmacokinetic Simulation of Levofloxacin in 557 Hospitalized Patients with Community Acquired Pneumonia. 10<sup>th</sup> International Congress of Infectious Diseases (ICID), Singapore, 2002.

Zhanel G, Roberts D, Laing N, **Noreddin A**, Nichol K and Hoban D Pharmacodynamic (PD) Activity Simulating Free Serum Concentrations of Lactams, Macrolides and Fluoroquinolones against  $\beta$  lactamase negative and positive *Haemophilus influenzae*, Using an In Vitro Model. 10<sup>th</sup> International Congress of Infectious Diseases (ICID), Singapore, 2002.

Zhanel G, Bewick B, Laing N, **Noreddin A**, Nichol K, Smith H and Hoban D Pharmacodynamic (PD) Activity of Levofloxacin (L) Simulating Free Concentrations Obtained in Both Healthy Volunteers and Patients With Community Acquired Pneumonia (CAP) vs. *ParC* Mutants of *Streptococcus pneumoniae* Using an In Vitro Model. 10<sup>th</sup> International Congress of Infectious Diseases (ICID), Singapore, 2002.

Wierzbowski A., Nichol K, **Noreddin A**, Palatnick L, Hoban D and Zhanel G Incidence of *mefA* and *ermB* positive *Streptococcus pneumoniae* in Canada: Results of a 4-year (1997-2000) National Surveillance Study. Interscience Congress of Antimicrobial Agents and Chemotherapy (ICCAC), Chicago, IL, USA, December 2001.

Zhanel G, Wierzbowski A, **Noreddin A**, Nichol K and Hoban D In Vitro Activity of ABT-773 vs. Macrolide-Susceptible and –Resistant *S.pneumoniae*, *H.influenzae* and *M. catarrhalis*: Results of a 2 Year (1999/2000 and 2000/2001) Canadian Respiratory Organism Surveillance Study (CROSS). Interscience Congress of Antimicrobial Agents and Chemotherapy (ICCAC), Chicago, IL, USA, December 2001.

**Noreddin A**, Laing N, Nichol A, Wierzbowski A, Hoban D and Zhanel G In Vitro Pharmacodynamic Modeling of the Novel Ketolide Telithromycin Versus PCR-Positive *mefA* and *ermB* Macrolide Resistant Strains of *Streptococcus pneumoniae* Using an In Vitro Model. Interscience Congress of Antimicrobial Agents and Chemotherapy (ICCAC), Chicago, IL, USA, December 2001.

Zhanel GG, **Noreddin A**, Laing N, Nichol k, Palatnick L, Johnson J “the NAVRESS group” and Hoban D. Antibiotic Activity against Urinary Tract Infection (UTI) Isolates of Vancomycin-Resistant Enterococci (VRE): Results from the North American Vancomycin Resistant Enterococci Susceptibility Study (NAVRESS). Infectious Diseases Society of America (IDSA), San Francisco, Ca, USA, October 2001.

Zhanel GG, **Noreddin A**, Laing N, Nichol K, Palatnick L, Johnson J” the NAVRESS group” and Hoban D. Prevalence of Urinary Infection Caused by Vancomycin-Resistant Enterococci (VRE): Results from the North American Vancomycin Resistant Enterococci Susceptibility Study (NAVRESS). Infectious Diseases Society of America (IDSA), San Francisco, Ca, USA, October 2001.

Zhanel G, **Noreddin A**, Roberts D, Nichol K, Weirzbowski A., Bellyou T, and Hoban D. In-Vitro Pharmacodynamic Modeling of Clarithromycin Simulating Serum (S) and Epithelial Lining Fluid (ELF) Concentrations versus *mefA* and *ermB* Macrolide Resistant *Streptococcus pneumoniae*. International Congress of Chemotherapy (ICC), Amsterdam, The Netherlands, June, 2001.

**Noreddin A**, Laing N, Nichol K, Wierzbowski A, Hoban D and Zhanel G. Pharmacodynamic Simulation of ABT-773 a New Ketolide Against PCR Positive *mefA* and *ermB* Macrolide Resistant Strains of *Streptococcus pneumoniae* Using an In Vitro Model. International Congress of Chemotherapy (ICC), Amsterdam, The Netherlands, June 2001.

Al-Shabeeb M, **Noreddin A** and Al-Dhawailie A. Switch therapy, appropriateness and cost assessment: a retrospective study in a teaching hospital. The Second International Conference of Hospital Pharmacy, Cairo, Egypt, June 1999.

Al-Balla M, Al-Yamani M, and **Noreddin A**. Prescribing Pattern during the Month of Ramadan. The 5<sup>th</sup> International Saudi Pharmacy Conference, Riyadh, Saudi Arabia, October 1999.

Al-Fawzan N, **Noreddin A** and al-Rasheed A. Extended interval aminoglycoside dosing in critically ill patients. Pharmacokinetic assessment in a tertiary hospital. The Third International pharmaceutical science Conference, Beirut, Lebanon, September 1998.

**Noreddin A** and Torti F: "Experience with recombinant tumor necrosis factor (rTNF)" Drug Biotechnology Symposium, Saudi Pharmaceutical Society, Tabouk, Saudi Arabia, 28-29 March 1995.

**Noreddin A**: Blood and blood products infections, including hepatitis and AIDS", Blood Products Symposium, Saudi Pharmaceutical Society, Al-Madina Al-Munawara, Saudi Arabia, November 1994.

**Noreddin A** and Torti F: Tumor necrosis factor (rTNF) administered as a continuous infusion to cancer patients", Drugs and Poisons: Uses and Hazards Symposium, Directorate of Health Affairs, Jeddah, Saudi Arabia, June 1994

**Noreddin A**: Pharmacist, physician, nurse and patient interaction", Clinical Pharmacy Services in Hospitals Symposium, Al-Khobar, Saudi Arabia, May 1993.

Saleh S, Roushdy H, Hamdy M, **Noreddin A**, and Barakat M. Study on Radiation sensitivity of medroxyprogesterone acetate as reflected by chemical, biochemical, and biological investigations. The Second Mediterranean and Near- East Congress of Clinical Chemistry, November 1983.

### **RESEARCH GRANT FUNDING**

Principle Investigator: A Novel Antibiofilm Formulation to Treat Combat-Related Wound Infections, W81XWH-17-JPC-2/MIDRP-ARA. (\$ 2M), 2017.

Co-investigator: Design of novel cationic, amphipathic cellulose based Nano biomaterials from agricultural residues for Drug Delivery: Application in the Treatment of Multi-Drug Resistant Planktonic and/or Biofilm Embedded Bacteria. Academy of Scientific Research and Technology. (\$100 K), submitted July, 2016.

Co-investigator: “Quorum Quenching Enzymes: New Trend in Antimicrobial treatment: JESOR program, Academy of Science Research and Technology, Egypt. 2015 (\$60,000).

Principal Investigator: “Providing Medication Management Services”, Senior Services of Southeastern Virginia, 2013 (\$4,800)

Principal investigator: “Innovative technologies to effectively treat multi-drug resistant and/or biofilm-embedded bacteria “, Innovative Surface Technologies, Inc. (ISurTec), National Institute of Health (NIH)/SBIR. Grant number: 1R43GM093398-01A1, 2010-2012 (\$40,000)

Co-investigator: “Collaborative Pilot Study: Evaluating the efficacy of the Drug Information Database System at Hampton University School of Pharmacy”, Hampton University Faculty Institute Grant, 2010 (\$5,200)

Co-Investigator: “Relationship of MIC and AUC/MIC to vancomycin efficacy for treatment of methicillin-resistant *Staphylococcus aureus* pneumonia”, Whiteside Clinical Research Institute, 2008-2009 (\$14,500)

Principal Investigator: “A dynamic model of bio-film infected Cystic Fibrosis lung epithelial cells”, Grant-In-AID of research, Artistry and Scholarship (Category 6, University of Minnesota 2007-2009 (\$29,200)

Principal Investigator: “High throughput and *in vitro* modeling strategies vs. catheter biofilms in elderly patients with complicated urinary tract infections “, Society of Infectious Diseases Pharmacist, 2007-2008 (\$15,000)

Principal Investigator: “Target Attainment Potential Study of Fluoroquinolones versus Resistant Strains of *Streptococcus pneumoniae*” Schering Plough, 2007-2008 (\$24,000)

Principal Investigator: “*Pharmacodynamic Profiling of Moxifloxacin and Comparators versus Susceptible and Genetically Characterized Resistant strains of Streptococcus pneumoniae. Monte Carlo Simulation Analysis*”. Schering Plough, 2006-2007 (\$39,100)

Principal Investigator: “Study of the Pharmacodynamic Activity of the New Respiratory Quinolones against Ciprofloxacin Resistant Mutants of *Streptococcus pneumoniae*”, Grant-In-AID of Research, Artistry and Scholarship (Category I), University of Minnesota 2006-2008 (\$28,000)

Principal Investigator: “Liquid Chromatography-Mass Spectroscopy Instrument”, Grant-In-Aid Program (Category II), University of Minnesota, 2005 (\$38,000)

Recipient: “Establishment of Clinical Pharmacology Research Laboratory with LC-MS instrument as the major component of Drug Metabolites, hormones and other sophisticated assays”. *Shimadzu Equipment Grants for Research*, Shimadzu Scientific Instruments. , 2005 (\$51,000)

Principal Investigator: “*Assessment of Moxifloxacin ability to eradicate and prevent development of Streptococcus pneumoniae resistance: Clinical simulation and Monte Carlo analysis*”. Whiteside Institute for Clinical Research, St.Luke’s Hospital, 2005-2006 (\$10,000)

Principal Investigator: “*Target Attainment Analysis for Gatifloxacin 400 Daily in Immunocompetent Elderly and Immunocompromised Patients Hospitalized with Community Acquired Pneumonia*”. Bristol Meyers Squibb, 2002-2003 (\$12,000)

Co-Investigator: “*Simulation of Levofloxacin pharmacokinetics in patients with community acquired pneumonia*”. Ortho McNeil, 2001-2002 (\$22,000)

Co-investigator: “*Pharmacokinetic/Pharmacodynamic modeling of various Nitrofurantoin formulations versus selected urinary tract isolates*”. Procter and Gamble, 2000-2002 (\$160,000)

Co-investigator: “*Pharmacodynamic modeling of Macrolides/ Ketolides against macrolide-resistant S.pneumoniae*”. ABBOTT Laboratories, 2000-2001 (\$50,000)

### **SAMPLE OF INVITED PRESENTATIONS:**

2016 “*Strategies for Optimizing Antimicrobial Pharmacodynamics and Fighting Bacterial Resistance*”. 1<sup>st</sup> ACU International Conference of Pharmaceutical Sciences On New Trends in Pharmaceutical and Medical Research, 28<sup>th</sup> -29<sup>th</sup> May 2016

2015 (Kenote Speaker). “*Pharmacy Education in the 21 Century: Opportunities and Challenges*”. 3<sup>rd</sup> International Conference on Clinical Pharmacy, Atlanta, GA, December 7-9, 2015.

2015 “*Workshop “Methods for Maximally Precise Individualization of Drug Therapy*”. 3<sup>rd</sup> International Conference on Clinical Pharmacy, Atlanta, GA, December 7-9, 2015.

2015 “*Bedside Clinical Software to Optimize Individualized Drug Dosage Regimens*”. 3<sup>rd</sup> FUE International Conference of Pharmaceutical Sciences (3<sup>rd</sup> FUE-ICPS),. February 9-11, 2015.

2014 “*Pharmacodynamic profiling of fluoroquinolones in Community Acquired Pneumonia (CAP) patients: dose and age stratification study*”. 2<sup>nd</sup> International Conference on Clinical Pharmacy, SF, CA, December 2-4, 2014.

2012 “*Pharmacodynamic Profiling of Drugs Working against Gram Positive Bacteria*”, International Conference on Clinical Microbiology, and Microbial Genomics, TX, November 2012

- 2012 *Treatment of Methicillin Resistant Staphylococcus aureus: target Attainment Analysis*, TM's 2<sup>nd</sup> World Drug Discovery Online Conference, October 2012
- 2012 *Clinical Simulation/Pharmacogenomic Analysis as a Novel Tool to Combat Bacterial Resistance*, Preceptors Workshop, Hampton University, April 2012
- 2012 *Comparative Pharmacodynamics of Ceftobioprole, DAlbavancin, Daptomycin, Tigecycline, Linezolid and Vancomycin in the Treatment of MRSA Infections*, Pharmacy Workshop, Dubai International Pharmaceutical and Technologies Conference (DUPHAT), DUBAI, UAE, MARCH 2012.
- 2012 *Pharmacokinetics and Pharmacodynamics of Antimicrobials*, Pharmacy Workshop, Dubai International Pharmaceutical and Technologies Conference (DUPHAT), DUBAI, UAE, MARCH 2012.
- 2011 *Antimicrobial Therapy in the Elderly, Antimicrobial Dosing in Special Populations- Meet the Expert. 49<sup>th</sup> Annual Meeting, Infectious Diseases Society of America (IDSA), Boston, MA, October 2011.*
- 2011 *Clinical Simulation/Pharmacogenomic Analysis as a Novel Tool to Combat Bacterial Resistance-1.0-hour CE, 12<sup>th</sup> Annual Preceptor Training Conference*, Hampton University, School of Pharmacy
- 2010 *Opportunities in Non-Government funding. Opportunities in Research Funding workshop*, School of Pharmacy, Hampton University
- 2010 *Strategies toward Successful NIH Funding*. School of Pharmacy, Hampton University
- 2009 *New Trends in Pharmacy Practice: Pharmaceutical Care Era- Medication Therapy Management* Faculty of Pharmacy, Al-Fateh University, Tripoli, Libya
- 2009 *Modeling Biofilm Infection: Novel Tools to Combat Infection and Advance Therapy. Cystic Fibrosis research group*, School of Medicine, University of Minnesota, Minneapolis MN
- 2009 *Pharmacokinetic and Pharmacodynamic Modeling of Brain Tumor Chemotherapy in a Three-Dimensional Glioblastoma Multifolium culture. Children Cancer Hospital Egypt, 1<sup>st</sup> Scientific Symposium, Cairo, Egypt*
- 2009 *Pharmaceutical Management of Fever and Neutropenia*, Children Cancer Hospital Egypt, 1<sup>st</sup> Scientific Symposium, Cairo, Egypt
- 2008 *Cultural Competency, Assessment and development. Multicultural Pharmacy Student Organization*, University of Minnesota, Duluth
- 2008 *Predicting Fluoroquinolones ability to kill resistant Streptococcus pneumoniae isolates expressing different genetic mutations: Clinical simulation of several treatment and mutation scenarios. 2nd World Conference on Dosing of Anti-Infectives (WCDA II)*, Nurnberg, Germany
- 2007 *Clinical Simulation/Pharmacogenomic Analysis as a Novel Tool to Combat Bacterial Resistance: A Northern Minnesota and North American Perspective*, Integrated Biological Sciences Graduate Program, University of Minnesota, Duluth

- 2006 *Target Attainment Studies: a tool for optimizing antimicrobial effect, Academic Health Center Graduate seminar, University of Minnesota, Duluth*
- 2005 *Pharmacokinetics/Pharmacodynamics of Antibacterials in the New Millennium, Lakehead University, Thunder bay, Canada*
- 2004 *Monte Carlo Simulation versus S.pneumoniae of Levofloxacin 500mg, 750mg and 1000mg Once Daily Compared to Gatifloxacin 200mg and 400mg Once Daily administered to Hospitalized Patients with Community Acquired Pneumonia (CAP): Dose and Age Stratification Study, World Conference on Dosing of Antimicrobials, Nurnberg, Germany*
- 2003 *Pharmacodynamic target attainment analysis against Streptococcus pneumoniae using levofloxacin 500 mg and 750mg once daily in hospitalized patients with community acquired pneumonia, European Society of Chemotherapy, Faculty of Medicine, University of Vienna, Vienna, Austria*
- 2002 *Pharmacokinetic Simulation of Levofloxacin in 263 Elderly Immunocompetent and 74 Immunocompromised Hospitalized Patients with Community Acquired Pneumonia. Annual Infectious Diseases Pharmacotherapy Fellowship Forum. Orlando, FL, USA*
- 2001 *Pharmacodynamic Modeling of Clarithromycin against Macrolide-Resistant Streptococcus pneumoniae (PCR Positive mefA) using an In Vitro model. Annual Infectious Diseases Pharmacotherapy Fellowship Forum. Chicago, IL, USA*
- 2000 *Drug Use in Pediatrics. Continuing education program for pharmacists, The Marriott Hotel, Riyadh, Saudi Arabia*
- 1999 *Microbiology/ Antibiotics: An overview. Continuing education program for community pharmacists. Saudi Pharmaceutical Society. The Marriott Hotel, Riyadh, Saudi Arabia*
- 1998 *Decision making in antimicrobial therapy continuing education program for hospital pharmacists. King Khalid University hospital, Riyadh, Saudi Arabia*
- 1997 *Antiretrovirus Therapy for HIV/AIDS: An update. Continuing Education Program, King Khalid University Hospital, Riyadh, Saudi Arabia*
- 1996 *Recent Advances of HIV therapy. Continuing Education Program for Hospital Pharmacists, King Khalid University Hospital, Riyadh, Saudi Arabia*
- 1995 *Proper use of antibiotics. Therapeutics Workshop, Saudi Pharmaceutical Society, Riyadh, Saudi Arabia*
- 1994 *HIV infection, pathogenesis and therapy. Continuing Education Program for Pharmacists, Saudi Pharmaceutical Society, Riyadh, Saudi Arabia*
- 1993 *Common respiratory problems. Continuing Education Program for Community Pharmacists, the Saudi Pharmaceutical Society, Riyadh, Saudi Arabia*

**PROFESSIONAL SOCIETIES:**

The Rho Chi Society (Pharmaceutical Honor Society)  
American Association of Colleges of Pharmacy (AACCP)  
American Pharmacists Association (APhA)  
California Pharmacists Association (CPhA)  
American Society of Microbiology