

# CURRICULUM VITAE

## PERSONAL INFORMATION **Hanan H. Hagar**



*Department of Pharmacology,  
College of Medicine and King Khalid University Hospital, King Saud University  
P.O. Box 2925, Riyadh 11461  
Kingdom of Saudi Arabia  
Mobile: (+966)507554152  
E-mail: hhagar@ksu.edu.sa*

## EDUCATION

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- 1988 BS. Pharmaceutical Sciences**  
Faculty of Pharmacy, Zagazig University, Egypt **Excellent with honor (First of the class for five years)**
- 1992 MS. Pharmaceutical Sciences**  
(Pharmacology and Toxicology), Faculty of Pharmacy, Zagazig University, Egypt.
- 1997 Ph.D. Pharmaceutical Sciences**  
(Molecular and Renal Pharmacology), Division of Nephrology, College of Medicine, University of Arkansas for Medical Sciences, and John L. McClellan Memorial Veterans Administration Hospital, Little Rock, Arkansas, United States of America; in collaboration with Zagazig University, Zagazig, Egypt (Channel system) Under supervision of Prof. Sudhir Shah

## ACADEMIC EXPERIENCES

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- 1988–1992 Demonstrator**, Pharmacology Department, Pharmacy College, Zagazig University, Egypt.
- 1992-1994 Lecturer**, Pharmacology Department, Pharmacy College, Zagazig University, Egypt.
- 1994-1996 Research Training**, Division of Nephrology, College of Medicine, University of Arkansas for Medical Sciences, and John L. McClellan Memorial Veterans Administration Hospital, Little Rock, Arkansas, United States of America.
- 1997- 1999 Assistant Professor**, Pharmacology Department, Pharmacy College, Zagazig University, Egypt.
- 2000-2003 Assistant Professor**, Pharmacology Department, Medical College, King Saud University, Riyadh, Saudi Arabia.
- 2004-2008 Associate Professor**, Pharmacology Department, Pharmacy College, Zagazig University, Egypt.
- 2003-2009 Associate Professor**, Pharmacology Department, Medical College.
- 2008 -- till Professor**, Pharmacology Department, Pharmacy College, Zagazig University, Egypt.
- 2009 -- till Professor**, Pharmacology Department, Medical College, King Saud University.
- 2015 -- till Head of Pharmacology Unit Branch**, Medical College, Girls Campus, King Saud University, Riyadh, Saudi Arabia.

## HONORS AND AWARDS

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- 1988** Egyptian Pharmaceutical Association Award for Excellent Graduate.
- 1994-1996** A scholarship from Ministry of Higher Education for collecting data and research training during PhD at University of Arkansas for Medical Sciences, Little Rock, Arkansas.
- 2005** A winner of "**Distinguished free paper award**" in (APDW 2005) Asian Pacific Digestive Week 2005 COEX Center, Seoul, Korea
- 2007** The "**The best poster**" in 7th International Saudi Pharmaceutical Conference, Alfaisaliah Hotel, Riyadh, Kingdom of Saudi Arabia.
- 2009** Abstract entitled "Attenuation of renal ischemia/reperfusion injury by selective phosphodiesterase IV inhibitors in rats: possible role of nuclear factor Kappa and matrix metalloproteinases" was accepted among "**The top 20 abstracts in World Congress of Nephrology**", Milan, Italy (NDT Plus (2009) 2 (suppl 2): ii97-.doi: 10.1093.
- 2009-203** Election more than once as one of **the best teachers in Medical College**, King Saud University, Saudi Arabia depending upon the student evaluation and Deanship of Quality.
- 2009-2010** Inclusion in the 2009-2010 Edition of "**Who's Who in Medicine and Healthcare**".
- 2010** Inclusion in the American biographical works "**Great Minds of the 21st Century**", 2010 England.
- 2011** Inclusion in the 2011 Edition of "**One World Series, The Medicine and Healthcare**", International Biographical Center, UK.
- 2000 -2020** Nomination of twenty projects as a principal investigator and co-investigator ranging from **(7000 SR – 540,000 SR)**. *Details are given below.*

## TEACHING EXPERIENCES

### UNDERGRADUATE COURSES

#### COLLEGE OF PHARMACY

**1988-1999** *Zagazig University, Zagazig, Egypt*

- Physiology courses for first year students.
- Pharmacology for third year students.
- Toxicology and Bioassay for fourth year students.

#### MEDICAL COLLEGE OLD SYSTEM

**1999-2011** *King Saud University, Riyadh, Kingdom of Saudi Arabia*

- MPHL-231 course, second year students
- MPHL-232 course, third year student
- MPHL 301 course
- Medical Terms Course

#### MEDICAL COLLEGE (PROBLEM BASED LEARNING)

**2011-Till now** *King Saud University, Riyadh, Kingdom of Saudi Arabia*

- First year blocks: Foundation, Respiratory, Renal, CVS, and Musculoskeletal blocks.
- Second year blocks: Endocrine, CNS, GIT, and Reproduction blocks.
- Small Group Sessions.
- Patient Safety Course.

## DENTAL COLLEGE

1999-2013 *King Saud University, Riyadh, Kingdom of Saudi Arabia*

- PHL-210 course for second year students.
- Pharmacology course (PHL-411) for fifth year students.

## COLLEGE OF PHARMACY

1999-2006 *King Saud University, Riyadh, Kingdom of Saudi Arabia*

- PHL-451 Course for second year students.

## COLLEGE OF ALLIED MEDICAL SCIENCES

1999-2016 *King Saud University, Riyadh, Kingdom of Saudi Arabia*

- **PHL-366** course for second year students, Occupational Therapy Division.
- **PHL-366** course for second year students, Physical Therapy Division.
- **DEH-345** course for second year students, Dental Hygiene Division.
- **PHL-366** course for second year students, Nursing Division.

## MEDICAL COLLEGE (PROBLEM BASED LEARNING)

2014-2015 *Prince Noura University, Riyadh, Kingdom of Saudi Arabia*

- First year blocks: Foundation block, Respiratory block, Renal block, CVS block, musculoskeletal block.
- Small Group Sessions.

## COURSE ORGANIZER FOR THE FOLLOWING UNDERGRADUATE COURSES

- **PHL -210**: Faculty of Dentistry, King Saud University, Kingdom of Saudi Arabia.
- **PHL – 411**: Faculty of Dentistry, King Saud University, Kingdom of Saudi Arabia.
- **PHL-366**: College of Allied Medical Sciences, Occupational Therapy and Physical Therapy, King Saud University, Kingdom of Saudi Arabia.
- **PHL-366**: College of Allied Medical Sciences, Nursing Department, KSU, Saudi Arabia
- **DEH-345**: College of Allied Medical Sciences, Dental Hygiene Department, KSU, Kingdom of Saudi Arabia.

## POSTGRADUATE COURSES (Master – PhD degrees)

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1999-2006 *College of Pharmacy, King Saud University, Kingdom of Saudi Arabia*

- **PHL-518** (Master degree, Pharmacology Dept., Medical College, KSU)
- **PHL-600** (PhD degree, Pharmacology Dept., Medical College, KSU)
- **PHL-591** (Master degree, Physiology Dept., Medical College, KSU)
- **PHL-650** (PhD degree, Physiology Dept., Medical College, KSU)

## GRADUATE STUDENTS SUPERVISION/EXAMINATION

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2004 *Faculty of Pharmacy, King Saud University, Kingdom of Saudi Arabia*

Effects of curcumin and valsartan on lead-induced hypertension and nephrotoxicity by Ahlam Al-Husseini.

2006 Effects of advanced glycation end products inhibitors and/or statins on the progression of diabetic nephropathy in rats by Nouf Al-Otaibi.

2016 *College of Medicine, King Saud University, Kingdom of Saudi Arabia*

Variations of the liability of gastric wall of albino rats of different ages to ulcer induced by ammonia and the possible therapeutic effect of ginkgo biloba. By Tahani Almutrifi.

2018 Role of pro-inflammatory cytokines and chemokines in chemotherapy-induced peripheral neuropathic pain. By Sarah H. Al-Mazidi.

## PROJECTS

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### PRINCIPAL INVESTIGATOR

- 1425H 1. **Effect of taurine against cyclosporine-induced hypertension and nephrotoxicity.** Research Center at Women Students-Medical Studies & Sciences Sections, King Saud University (23,000 SR).
2. **Modulation of leukocyte activation, platelet aggregation, and endothelial function by insulin-like growth factor-1 and statins in cerebral ischemia / reperfusion injury in diabetic rats.** King Abdul Aziz City for Science and Technology (KACST), Saudi Arabia (Project no: MS-8-58) (78,000 SR).
- 1426H 3. **Effect of taming tumor necrosis factor-  $\alpha$  (TNF- $\alpha$ ) by selective phosphodiesterase IV inhibitors on nuclear factor (NF- $\kappa$ B), matrix metalloproteinases and extracellular matrix in renal ischemia/reperfusion injury in rats.** King Abdul Aziz City for Science and Technology (KACST), Saudi Arabia (Project no: large project -24-43), (540,000 SR).
- 1427H 4. **Effect of blocking cysteinyl leukotriene receptors on lipopolysaccharide-induced multiple organ dysfunctions in rats.** Research Center at Women Students-Medical Studies & Sciences Sections, King Saud University (23,000 SR).
- 1429H 5. **The role of resveratrol in oxidative stress and nephrotoxicity-induced by cisplatin in rats.** Research Center at College of Medicine, King Saud University (Project no: 08-648) (74,920 SR).
- 1431-1434H 6. **Effects of betaine supplementation on cisplatin-induced nephrotoxicity and hepatotoxicity in experimental animals: contribution of nuclear factor kappa and caspase-3.** Research Center at College of Medicine, King Saud University (Project no: 09-710) (60,000 SR).
7. **Effect of betaine supplementation on oxidative stress and renal dysfunction induced by cadmium intoxication in experimental rats.** SABIC Projects (42,000 SR).
- 1436H 8. **Effects of matrix metalloproteinase inhibitors on focal segmental glomerulosclerosis in experimental animals.** King Abdul Aziz City for Science and Technology (KACST), Saudi Arabia (Project no: 34-129), (164,000 SR).

### CO-INVESTIGATOR

- 1428H 9. **Do advanced glycation end products inhibitors protect against experimentally induced liver fibrosis?** Research Center at College of Medicine, King Saud University (Project no: 07-574) (85,000 SR).
10. **The protective effects of imipramine and fluvoxamine on ulcerative colitis induced experimentally in rats.** Research Center at College of Medicine, King Saud University (Project no: 07-572) (87,600 SR).
11. **Comparative study between angiotensin converting enzyme inhibitors and angiotensin receptor blockers in ulcerative colitis induced experimentally in rats.** Research Center at College of Medicine, King Saud University (Project no: 08-634).
- 1429H 12. **The role of agmatine in stomach injury induced by ischemia/reperfusion.** Research Center at Women Students-Medical Studies & Sciences Sections (Project no: 07-574).
- 1431H 13. **A study of the therapeutic effects of curcumin on cancer colon.** Research Center at College of Medicine, King Saud University, (Project no: 09-709).

- 1437H**
14. **Clinical and histopathological findings of dual disease of FSGS and IgA nephropathy in murine models.** College of Medicine, King Saud University Medical College, and Ha'al University, Saudi Arabia - **(90,000 SR)**.
  15. **Is dense deposit disease a variant of acute post-infectious glomerulonephritis seen in patients with abnormalities of the alternative pathway?** College of Medicine, King Saud University, Riyadh and Medical College, Ha'al University, Saudi Arabia **(82,000 SR)**.
- 1439H**
16. **Research group: Modulation of xenobiotics-induced organ damage using nutraceuticals in experimental animal's models: Role of oxidative/nitrosative stress, inflammatory markers, apoptotic signaling pathways and DNA damage.** Scientific Research Deanship, King Saud University **(RG-1439-017) (150,000 SR)**.

### GRADUATE STUDENT PROJECTS

17. **Effects of curcumin and valsartan on lead-induced hypertension and nephrotoxicity".** King Abdul Aziz City for Science and Technology (KACST), **(40,000 SR)**.
18. **Effects of advanced glycation end products inhibitors and/or statins on the progression of diabetic nephropathy in rats".** King Abdul Aziz City for Science and Technology (KACST) and AstraZeneca Company, **(50,000 SR)**.

### RESEARCH GROUPS

19. **Research group No (1439-017) entitled** Modulation of xenobiotics-induced organ damage using nutraceuticals in experimental animal models: Role of oxidative/nitrosative stress, inflammatory markers, apoptotic signaling pathways and DNA damage.
20. **Research Group No (1441-467) entitled** Mitigation of oxidative stress, inflammation, apoptosis induced by some toxicants in animal models using different antioxidants.

### UNDERGRADUATE STUDENT PROJECTS

21. Effects of some antioxidants alone and in combination with anti-inflammatory drugs on acute pancreatitis. Undergraduate Students Research Support Program (USRSP), (10,000 SR).
22. Effect of matrix metalloproteinase inhibitors on lipopolysaccharide-induced liver injury in rats. Funded for publication by USRSP, (7,000 SR).

### COLLABORATION WITH PHARMACEUTICAL COMPANIES

1. **Takeda Chemical Industries LTD**, Osaka, Japan. (Provided thromboxane antagonist, seratodast).
2. **Astrazeneca Limited** (Provided rosuvastatin and 20,000 SAR).
3. **Kirin Brey Company LTD**, Tokyo, Japan (Provided potassium channel opener, KRN-4884).

### LABORATORY EXPERIENCES

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#### 1) BIOCHEMICAL MEASUREMENTS AND TECHNIQUES

- Measurement of arterial blood pressure by direct invasive method (cannulation of carotid artery).
- Measurement of arterial blood pressure by indirect way (Tail cuff method).
- Determination of catecholamines and adenosine triphosphate (ATP).
- Cannulation of different blood vessels in experimental animals.
- Experience with tissue cultures.
- Isolation of DNA and RNA from tissues and cultured cells.
- Determination of DNA damage using agarose gel electrophoresis in cultured cells.
- Western blot analysis.

- Biochemical assays of kidney functions (BUN, Creatinine), liver functions (AST, ALT), pancreatic amylase, and cardiac functions (CK-MB).
- Determination of endonuclease activity using SDS- polyacrylamide gel.
- Measurement of cell death (LDH assay and trypan blue exclusion assay).
- Determination of antioxidant enzymes (reduced glutathione, catalase, and superoxide dismutase).
- Measurement of lipid peroxidation marker (malondialdehyde).
- Gelatin zymography technique for matrix metalloproteinases (MMPs).
- ELISA assay for inflammatory markers as TNF- $\alpha$ , Interleukins, TIMP-1 & MMP-2&9.

## **2) INDUCTION OF EXPERIMENTAL MODELS**

- Renal hypertension (two kidney, one clip & one kidney, one clip renal hypertensive rats).
- Ischemic acute renal failure.
- Focal segmental glomerulosclerosis
- Global stroke in rats.
- Ulcerative colitis in rats.
- Diabetes using streptozotocin in rats.

## **MEMBER OF THE EDITORIAL BOARD OF THE FOLLOWING JOURNALS** \_\_\_\_\_

- Saudi Pharmaceutical Journal, Saudi Arabia
- Dataset Papers of Pharmacology, Hindawi Publishing Corporation.
- SciTz Medical and Clinical Toxicology, United States.
- Journal of Nutrition & Food Sciences, United States.
- JSM Renal Medicine, United States.
- SRL Nephrology & Therapeutics, United States.
- The Open Access Journal of Science and Technology, United States.

## **REVIEWER FOR THE FOLLOWING INTERNATIONAL JOURNALS** \_\_\_\_\_

- Acta Pharmacologica Sinica (China)
- Cell Biology International (UK).
- Clinica Chimica Acta (Netherlands).
- Journal of Pharmacy and Pharmacology (UK).
- Pesticide Biochemistry and Physiology (Netherlands).
- Saudi Pharmaceutical Journal (Saudi Arabia).
- Cell & Tissue Transplantation & Therapy (New-Zealand).
- Toxicology Mechanisms and Methods
- Urological Research (UK).
- J of Experimental Plant Research
- Toxicology
- Journal of Physiology and Pathophysiology
- African Journal of Food Science
- J of Pharmacy & Pharmacology
- Inflammation
- Environmental Science and Pollution Research

## **COMMITTEES** \_\_\_\_\_

- Head of Examination Committee for Medical College for Girls, KSU.
- A member in General Examination Committee for Medical College for boys and girls, KSU.
- A member in Research Committee for Medical College for Girls, College of Medicine, KSU
- A member in Gastroenterology & Hematology block committee, College of Medicine, KSU
- A member in Foundation block committee, College of Medicine, KSU
- A member in Pharmacology Examination committee in Pharmacology unit, College of

Medicine, KSU.

## PROFESSIONAL SOCIETIES

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- The Egyptian Society of Toxicology.
- The Egyptian Pharmaceutical Society.
- The Egyptian Society of Pharmacology and Experimental Therapeutics.
- The Egyptian Pharmacists Association.
- The Saudi Pharmaceutical Association.
- The Scientific Egyptian Society for protection against environmental Pollution.

## WORKSHOPS

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### AS ORGANIZER AND SPEAKER IN THE FOLLOWING COURSES

- **1<sup>st</sup> summer course of principles for conducting a scientific research**, Medical College for Girls, KSU (14-17 May, 2015).
- **"Airway Management"**, conducted by to KSU Distinguished and Talented Student Program, Medical College for Girls, KSU (3-4 April 2017).
- **2<sup>nd</sup> Physiology Workshop "Research Day"**, Medical College for Girls, KSU (13 November 2017).
- **2<sup>nd</sup> – 5<sup>th</sup> Research workshop entitled "How to conduct a scientific research"**, Medical College for Girls, KSU (2016-2018).
- **Towards Excellent Scientific Research according to the Kingdom Vision 2030**, Medical College for Girls, KSU (18-22 February, 2018).
- **"Interactive Supportive Microbiology & Pharmacology Workshop"**, Medical College for Girls, KSU (21-22 October, 2018).
- **"Extracurricular workshops: Gastrointestinal Tract Infections"**, Medical College for Girls, KSU (20-21 November, 2018).
- **"Extracurricular workshops: Overview of respiratory tract infections"**, Medical College for Girls, KSU (7-9 January, 2019).
- **7<sup>th</sup> Research workshop entitled "How to conduct a scientific research"**, Medical College for Girls, (20-21 October, 2019).
- **"Interactive Supportive Microbiology & Pharmacology Workshop"**, Medical College for Girls, KSU (18 December, 2019).
- **"Basic review about Microbiology & Pharmacology Workshop"**, Medical College for Girls, KSU (18 -19 January, 2021).

### AS ATTENDANT IN THE FOLLOWING COURSES

- **"Handling of animals"**, Animal house of University of Arkansas for Medical Sciences, Little Rock, Arkansas (1996).
- **"Molecular Genetics (DNA hybridization)"**, Faculty of Science, Ain Shams University, Cairo, Egypt (24 -29 Oct. 1998).
- **"Skills of instructional methods"**, Medical College, King Saud University, Saudi Arabia (6 Oct. 2002).
- **"Assessments"**, College of Medicine, King Saud University, Riyadh, Saudi Arabia (27 Oct., 2002).
- **"New Methods in Teaching"**, College of Pharmacy, Zagazig University, Egypt, (2005).
- **"Skills of Management"**, College of Pharmacy, Zagazig University, Egypt (2005).
- **"Professional Ethics"**, College of Pharmacy, Zagazig University, Egypt (2005).
- **"Problem analysis and decision making"**, College of Pharmacy, Zagazig University, Egypt, (2005).
- **"How to write and publish scientific articles"**, Pharmacy College, Zagazig University, Egypt (2006)

- **"Management of Time"**, College of Pharmacy, Zagazig University, Egypt (2006).
- **"Constructing problem-based learning cases; Hands on training workshop"**, Dept of Medical Education, Medical College, King Saud University (2010).
- **"Patent Filing Pathway"**, Center at Women Students-Medical Studies & Sciences Sections (18-19 November, 2011).
- **"Construction of Multiple choice questions: Hands on training workshop"**, Dept of Medical Education, Medical College, King Saud University (21 September 2011).
- **"2<sup>nd</sup> Faculty Enhancement Workshop"**, College of Medicine, King Saud University (4 March, 2010).
- **"How to come a good facilitator workshop"**, Dept of Medical Education, Medical College, King Saud University (November, 2011).
- **"PBL Unit construction& problem design workshop"** Conducted by *Prof Diana Dolmas and Dr Ineke Wolfhagen*, Dept of Educational Development& Research, School of Health Professions Education, Maastricht University, Netherlands held in by Medical Education Unit, College of Medicine, King Saud University, KSA (23 February 2014).
- **"Publications in International Journals"** conducted by *Richard M. Satava, MD FACS, Professor of Surgery, University of Washington* held in by Medical Education Unit, College of Medicine, King Saud University, KSA (6 December, 2014).
- **"Statement of Intended Learning Outcomes (ILOs) Hands-on Training Workshop"**, conducted by *Dr. Nehal Khamis, Dr. Majda Saeed*, The Faculty Development Unit, Medical Education Department, King Saud University, KSA (07 April 2014).
- **"Curriculum Development Hands on training workshop"** conducted by *Prof. David Kern*, Director of Curriculum Development Programs, School of Medicine, Johns Hopkins University, USA, held in by Medical Education Unit, College of Medicine, King Saud University, KSA (31 March -1 April, 2014).
- **"Overview of Student Assessment and Blueprinting"**, Conducted By: *Dr. Hamza Abdulghani And Dr. Mahmoud Salah*, Assessment Evaluation Unit, Medical Education Department, College of Medicine, King Saud University (April 2014).
- **Workshop entitled " How to Write Course Report And Course Specifications Using NCAAA Templates"**, conducted by *Dr. Nehal Khamis*, The Faculty Development Unit, Medical Education Department, College of Medicine, King Saud University (27-28 April, 2015).
- **"Third annual forum for university teaching" Active learning for enhanced learning outcome.** King Saud University, Riyadh, Kingdom of Saudi Arabia (4-7 April, 2016).
- **"Horizon 2020 media Day"** King Abdul-Aziz City for Science and Technology. Riyadh, Kingdom of Saudi Arabia (16 November, 2016).
- **"Supporting programs for universities and research centers"** King Abdul-Aziz City for Science and Technology. Riyadh, Kingdom of Saudi Arabia (28 November, 2016).
- **"The basic steps in paraphrasing when writing thesis and research articles"**, conducted by Research Center of Scientific and Medical Studies, Medical College for Girls, King Saud University (12 December, 2016).
- **"Brainstorming workshop in research"**, conducted by Female Scientific and Medical Colleges, Medical College, King Saud University (22 December, 2016).
- **"Scientific Research Ethics"**, conducted by Deanship of Scientific Research, Medical College, King Saud University (19 March, 2018).

## SCIENTIFIC SYMPOSIUMS

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### ATTENDANCE OF THE FOLLOWING SYMPOSIUMS

- **Drugs, the case and the solution.** Faculty of Pharmacy, Zagazig University, Zagazig, Egypt.



- **Aids.** Faculty of Pharmacy, Zagazig University, Zagazig, Egypt (21/10/1997).
- **Endothelium and the endothelium-derived relaxing factors.** Faculty of pharmacy, Zagazig University, Zagazig, Egypt, (March 1998).
- **Recent advances in the treatment of diabetes.** Sharkeia club, Zagazig, Egypt (17/3/1999).
- **Return to Nature.** College of Pharmacy, Zagazig University, Zagazig, Egypt-(20/3/1999).
- **Drugs education.** College of Medicine, King Khalid University Hospital, Riyadh, Kingdom of Saudi Arabia (17-27/10/2000).
- **Heart health.** College of Medicine, King Khalid University, Riyadh, Kingdom of Saudi Arabia (11-16/11/2000).
- **Natural products, Advantages and disadvantages.** Medical Studies and Science Departments for Girls, Riyadh, Kingdom of Saudi Arabia (26-28/9/2001).
- **International symposium about Islamic Youths,** King Abd. El. Aziz Library, Riyadh, Kingdom of Saudi Arabia (17-20/3/2002).
- **International Day of Diabetes.** King Abd-El-Aziz Hospital, Riyadh, Kingdom of Saudi Arabia (10-11/11/2001).
- **Islamic and Civilizations Conversations.** King Abd-El-Aziz Library, Riyadh, Kingdom of Saudi Arabia (17-20/3/2002).
- The 7<sup>th</sup> symposium for Medical Studies and Sciences Departments for Girls-**Recent techniques and its effect on human being and the environments.** Riyadh, Kingdom of Saudi Arabia (1-3/4/2002).
- **International symposium in university technology transfer & innovation management (patent. IP).** Riyadh, Kingdom of Saudi Arabia (23-24/11/2008).
- **Scientific Societies in Saudi Universities meeting.** Riyadh, Kingdom of Saudi Arabia (14-15/4/2009).
- **Horizon 2030.** King Abdul-Aziz City for Science and Technology. Riyadh, Kingdom of Saudi Arabia (21/11/2016).
- **Genes and Diseases.** King Abdul-Aziz City for Science and Technology. Riyadh, Kingdom of Saudi Arabia (24/11/2016).
- **Intellectual Property & Technology Licensing Program,** King Saud University, College of Science, Riyadh, Kingdom of Saudi Arabia (27/11/2016).

## LECTURES

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### ATTENDANCE OF THE FOLLOWING LECTURES

- **“The nation future and the need for scientific advances”** for Dr. Ahmed Zeuil-Intercontinental, Riyadh, Kingdom of Saudi Arabia (15/10/2000).
- **“Educational and social changes in Youth”.** King Abd-El-Aziz Library, Riyadh, Kingdom of Saudi Arabia (12/2/2001).
- **“Radiation around us”.** Medical studies and sciences Departments for girls. Riyadh, Kingdom of Saudi Arabia (17/2/2001).
- **“Synthesis of C-glycosides based therapeutics”.** By Prof. Robert Lynhart-Medical studies and sciences departments, Riyadh, Kingdom of Saudi Arabia (17/2/2002).
- **“Standardization of examination”.** By Prof Sultan Faroukey the head of Pakistan Medical College King Khalid Hospital, Riyadh, Kingdom of Saudi Arabia (11/11/2001).
- **“Osteoporosis and dental health”.** Dental College, Kingdom of Saudi Arabia (10/4/2002).
- **“Bringing out the best in medicine”.** By Prof Tore K Kvien, the head of Department of Rheumatology, University of Oslo, Norway, College of Medicine, King Khalid Hospital, Riyadh, Kingdom of Saudi Arabia (11/11/2001).
- **"Establishment of embryonic stem cells and its use".** Medical Studies and Science Departments for Girls, Riyadh, Kingdom of Saudi Arabia (11/3/2007).

- "Nano Technology" Medical Studies and Science Departments for Girls, Riyadh, Kingdom of Saudi Arabia (2008).

## CONFERENCES

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1. The 2<sup>nd</sup> annual meeting of College of Pharmacy, Zagazig University, Zagazig, Egypt (**3 October 1992**).
2. The 28<sup>th</sup> annual meeting of the American Society of Nephrology, San Diego, California, USA (5-8 November 1995). American Society of Nephrology 28<sup>th</sup> annual meeting. November 5-8, 1995. Abstracts. (<https://www.ncbi.nlm.nih.gov/pubmed/7579100>).
3. The 29<sup>th</sup> annual meeting of the American Society of Nephrology, New Orleans, Louisiana, USA (**3-6 November 1996**). Abstracts. JASN Sep 1, 1996 7: 1249-2024. (<https://www.ncbi.nlm.nih.gov/pubmed/8962418>)
4. The meeting of the Egyptian Society of Toxicology, College of Pharmacy, Al Azhar University, Cairo, Egypt (**1-3 April 1998**).
5. The meeting of Egyptian Society of Pharmacology and Experimental Therapeutics, Cairo, Egypt (**1 October 1998**).
6. The international meeting of the Egyptian Society of Clinical Chemistry, Marriot Hotel, Cairo, Egypt (**5-7 December 1998**).
7. The meeting of the Egyptian Pharmaceutical Society, Meridian Hotel, Cairo, Egypt (**8 -10 December 1998**).
8. The 13<sup>th</sup> annual meeting of Saudi Heart Association, Riyadh Intercontinental Hotel, Riyadh, Saudi Arabia (**22-24 January 2002**).
9. 9<sup>th</sup> International Pharmaceutical Sciences, Riyadh, Kingdom of Saudi Arabia (**17-21, December, 2006**).
10. 7<sup>th</sup> International Saudi Pharmaceutical Conference, Alfaisaliah Hotel, Riyadh, Kingdom of Saudi Arabia (**19-21, March, 2007**).
11. 1<sup>st</sup> RMH International Pharmacy Conference, Riyadh, Kingdom of Saudi Arabia (**28-30, April, 2008**).
12. 1<sup>st</sup> International Conference in Biotechnology. Center of excellence in biotechnology research. King Fahad Cultural center, Riyadh, Kingdom of Saudi Arabia (**16-18, February, 2009**).
13. The International Conference for Nanotechnology Industries. The leading Technology of 21<sup>st</sup> Century. King Abdullah Institute for Nanotechnology. King Fahad Cultural Center, Riyadh, Kingdom of Saudi Arabia (**5-7, April, 2009**).
14. 4<sup>th</sup> Annual International conference of Saudi Society of Nephrology. King Fahad Cultural Center, Riyadh, Kingdom of Saudi Arabia (**26-29, April, 2009**).
15. 2<sup>nd</sup> International conference on Drug Discovery and Therapy, Dubai's Men College, Dubai, United Arab Emirates, (**1-4, February, 2010**).
16. International Conference on Pharmacy and Pharmaceutical Sciences 2012, Singapore (**12-13 September, 2012**).
17. 2<sup>nd</sup> International summit on Toxicology, Hampton Inn Tropicana, Las Vegas, USA (**7-9 October, 2013**).
18. 3<sup>rd</sup> Pharma-nutrition 2015 conference, Hilton Hotel, Philadelphia, USA, (**13-15 April, 2015**).
19. 2<sup>nd</sup> Saudi International Conference on Scientific Publishing, **King Saud University, Riyadh, Saudi Arabia, (11-13 October, 2015)**.

20. 8<sup>th</sup> International Symposium of ASFFBC. Functional and Medical Foods for Chronic Diseases. Science and Practice. The Joseph B. **Martin Conference Center at Harvard Medical School, Boston, USA (September 22-23, 2016).**
21. International Conference on Pharmacology & Toxicology Studies, **Philadelphia, USA (7-9 August 2017).**

#### **ABSTRACTS PRESENTED AT THE INTERNATIONAL CONFERENCES**

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1. Endonuclease induced DNA damage and cell death in chemical hypoxic injury to LLC-PK1 cells. *28<sup>th</sup> annual meeting of the American society of Nephrology, San Diego-California (5-7 / 11 / 1995).*
2. Role of tyrosine phosphorylation in hypoxic injury hypoxic injury to LLC-PK1 cells. *29<sup>th</sup> the annual meeting of the American society of Nephrology, New Orleans, Louisiana, USA (3-6 November 1996).*
3. Effect of melatonin on gentamycin- induced oxidative stress and nephrotoxicity. *The 26<sup>th</sup> annual meeting of the Egyptian pharmaceutical sciences, Meridian Hotel. Cairo, Egypt (8-10 / 12 / 1998).*
4. Folic acid and vitamin B12 supplementation attenuates isoprenaline-induced myocardial infarction in experimental hyperhomocysteinemic rats. *The 13<sup>th</sup> scientific session of the Saudi Heart Association, Riyadh Intercontinental Hotel, Riyadh, Kingdom of Saudi Arabia (22-24, 1/2002).*
5. Evaluating the prophylactic potential of zafirlukast against the toxic effects of acetic acid on the rat colon. *7<sup>th</sup> Saudi Gastroenterology Association Meeting, King Fahad Hospital, Riyadh, Kingdom of Saudi Arabia (1-3 / 10 / 2002).*
6. The in vivo and in vitro anti-oxidant activity of ghrelin: Attenuation of gastric ischemic injury in the rat. (APDW 2005). *Asian Pacific Digestive Week 2005 COEX Center, Seoul, Korea (25-28/9/2005).*
7. Taurine attenuates hypertension and renal dysfunction induced by cyclosporine A in rats. *9<sup>th</sup> International Pharmaceutical Sciences, Riyadh, Kingdom of Saudi Arabia (17-21, December, 2006).*
8. Attenuation of bleomycin-induced lung fibrosis in rats by mesna. *9<sup>th</sup> International Pharmaceutical Sciences, Riyadh, Kingdom of Saudi Arabia (17-21, December, 2005).*
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10. Leukotriene receptor blocker, zafirlukast attenuates lipopolysaccharide-induced multiple organ dysfunction in rats. *7<sup>th</sup> International Saudi Pharmaceutical Conference, Alfaisaliah Hotel, Riyadh, Kingdom of Saudi Arabia (19-21, March, 2007).*
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## MANUSCRIPTS UNDER PREPARATION

48. **Hanan Hagar**; Raesa AbdEL Tawab. Taming tumor necrosis factor- $\alpha$  by rolipram attenuates acute renal injury induced by ischemia/reperfusion in rats: implication of extracellular activated kinase-1/2/ (ERK1/2), nuclear factor kappa- $\beta$  and matrix metalloproteinases (MMP-2 & MMP9).
49. **Hanan Hagar**; Raesa AbdEL Tawab. Attenuation of histological and immunohistochemical changes in the kidney subjected to renal ischemia/reperfusion injury by phosphodiesterase inhibition: Impact on expressions of collagen IV, fibronectin and ED1 and ICAM-1.

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53. **Hanan H Hagar**, Nouf al-Otabi, Dana Bakheet, and Raeesa AT Muhammed. Combined effect of aminoguanidine and rosuvastatin on the development of diabetic nephropathy in STZ-induced diabetic rats. Under submission
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59. **Hanan Hagar**. Antagonism of cysteinyl leukotriene receptor by montelukast dose-dependently attenuates lipopolysaccharide -induced oxidative stress and pancreatic injury in rats.

## MANUSCRIPT EDITING/ PROPOSAL REVIEW

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### REVIEWER FOR THE FOLLOWING MANUSCRIPTS

1. Protective effect of lithium on acetic acid-induced colitis in rats (**Digestive Diseases and Sciences -DDS4417**).
2. Taurine ameliorates water avoidance stress-induced degeneration of gastrointestinal tract and liver (**Digestive Diseases and Sciences-DDS 1878**).
3. The role of oxidative stress on cyclosporineA-induced nephrotoxicity in rats and the protective effect on N-acetylcysteine (**Cell Biology International**)
4. Antioxidant Defense of Betaine against Isoprenaline-Induced Myocardial Infarction in Rats (**J of Pharmacy & Pharmacology -D-07-00461**).
5. Psyllium attenuates myocardial infarction induced by isoprenaline and prevents hyperlipidemia in fat rich diet fed rats (**J of Pharmacy & Pharmacology-D-09-00091**).
6. Cryptotanshinone attenuates isoprenaline-induced cardiac fibrosis in mouse associated with upregulation and activation of matrix metalloproteinase-2" for the Journal of Pharmacy and Pharmacology (**J of Pharmacy & Pharmacology-D-11-00082**).
7. Gastroprotective effect of rofecoxib and NO-releasing aspirin against stress induced gastric lesions in rats (**Saudi Pharmaceutical Journal -2829**).
8. Pharmacological evaluation of novel aspirin derivative compound as potential selective cox-2 inhibitor (**Saudi Pharmaceutical Journal- 2834**).



9. Role of curcumin on generalized tonic clonic seizures and its associated memory disturbances with influence on brain monoamines (**Saudi Pharmaceutical Journal-2880**).
10. Leptin levels in relation to marital status and neuroendocrine function in Iraqi females with polycystic ovary syndrome (**Saudi Pharmaceutical Journal – 2938**).
11. Manifestations following the intracerebroventricular injection of *Leiurus quinquestriatus* scorpion venom in rabbits: the usefulness of the sodium channel blocker lidocaine (**Saudi Pharmaceutical Journal- 210-06**).
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13. Measuring the rate of therapeutic adherence among outpatients with T2DM in Egypt (**Saudi Pharmaceutical Journal- 210-28**).
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25. Effects of Taurine on toxicity of aluminum in rats. (**Acta Pharmacologica Sinica-8439**).
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30. Determination of Copper, Zinc, Lead and Some Biochemical Parameters in Fresh Cow milk from different locations in Niger State, Nigeria (**African Journal of Food Science AJFS-10-217**).
31. Rotenone induces nephrotoxicity in rats: oxidative damage and apoptosis. (**Toxicology Mechanisms and Methods, UTXM-2017-0014**).

## ADDITIONAL RESOURCES

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1. **Hanan H. Hagar**, Norishi Ueda, and Sudhir V. Shah: Endonuclease induced DNA damage and cell death in chemical hypoxic injury to LLC-PK1 cells. **Kidney International**, 49: 355-361, 1996. (Impact Factor-8.52, No. of Citations-42).
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1. **Prof. Hala Elmorshedy**, Department of Microbiology, College of Medicine, Prince Noura University, Riyadh, Kingdom of Saudi Arabia  
**Mobile:** 00966551706356, **E mail:** [elmorshedyh@hotmail.com](mailto:elmorshedyh@hotmail.com)
2. **Dr. Saeed Vohra**  
Department of Anatomy. College of Medicine, Texas, United States of America  
**Mobile:** 8329023420, **E mail:** [Mohammad.Vohra@fwmdschool.org](mailto:Mohammad.Vohra@fwmdschool.org)
3. **Prof Mohamed M Sayed-Ahmed**  
Pharmacology and Experimental Oncology Unit, National Cancer Institute, Cairo University, Kaser El-Aini St., Fom El-Khalig, Cairo, Egypt  
**Mobile:** 00201001720659, **Fax.:** 0020223644720  
**E mail:** [sayedahmedmm@hotmail.com](mailto:sayedahmedmm@hotmail.com)
4. **Dileep K. Vohra, MBBS; M Phil; Ph D**  
Professor (Pharmacology), College of Medicine, Alfaisal University, Riyadh, Kingdom of Saudi Arabia  
**P.O Box:** 50927, Riyadh 11533, **Tel.:** +966-11-215-7675 , **Fax:** +966-11-215-7651  
**Mobile:** 00966568183165, **E mail:** [drohra@alfaisal.edu](mailto:drohra@alfaisal.edu)
5. **Dr. Abir El-alfy**  
Associate Professor, Department of Biopharmaceutical Sciences MCW Pharmacy School, Wisconsin, USA  
**Mobile:** 4149552891, **E mail:** [aelfy@mcw.edu](mailto:aelfy@mcw.edu)
6. **Prof. Abdulrahman Almotrefi**  
Head of Pharmacology Unit, College of Medicine, King Saud University, Riyadh, Kingdom of Saudi Arabia  
**Mobile:** 00966505481807, **E mail:** [motrefi@ksu.edu.sa](mailto:motrefi@ksu.edu.sa)
7. **Prof. Mohammad al-humayyd**  
Department of Pharmacology and Toxicology, College of Pharmacy, King Saud University, Riyadh, Kingdom of Saudi Arabia  
**Mobile:** 00966505475978, **E mail:** [humayvd@yahoo.com](mailto:humayvd@yahoo.com)