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CURRENT POSITION

Associate professor of Pharmacology and Toxicology, Department of Clinical Pharmacy and Pharmacy Practice, Faculty of Pharmacy , Mutah University, Jordan

EDUCATION

University of Bradford, UK

2011 – 2015

Doctor of Philosophy

PhD Thesis

“Pharmacological investigations into matrix metalloproteinase-activated anti-tumour prodrugs” – a conducted research on the following:

- To assess the *in vitro* stability and activation of colchicine-based prodrugs in normal and tumour tissues.
- To assess the pharmacokinetic parameters of potential prodrugs *in vivo*.
- To generate useful SAR data to aid in the development of optimised prodrugs.
- To assess the prodrugs selectivity to MMP family using proteolytic enzyme inhibitors.
- To specify the involvement of individual MMPs in the cleavage of peptide prodrugs.
- To assess the expression of MMP family member in tumour tissue.

Ain Shams University, Egypt

2006 – 2007

Diploma in Clinical Pharmacy

Misr International University, Egypt

2000 – 2005

Bachelor of Pharmaceutical Science (GPA: 2.92)

RESEARCH SKILLS

- Professional user of HPLC.
- Outstanding experience in using mass spectrometry (LC/MS and LC/MS-MS).
- Extracting analyte or enriching targeted-protein from biological fluids and tissues.
- Developing and validating analytical methods for drug or protein qualification and quantification.
- Conducting the analytical assays for *in vitro* and *in vivo* drug analysis.
- SAR analysis of project data sets and calculation of ADME/Tox relevant properties for hit-to-leads discovery and optimisation.
- Drug metabolites interpretation in biological matrices.
- Human Cell culture.
- MTT assay for evaluating cytotoxicity of novel drugs.
- Western blotting.
- Immunoprecipitation.
- PCR.
- Using the bioinformatics packages (e.g PeptideAtlas and Skyline).
- Proficient user of statistical analysis software (Chemdraw, SigmaPlot and Graphpad Prism).
- Instruments maintenance and troubleshooting abilities.

TEACHING EXPERIENCE

Faculty of pharmacy, Mutah University, Jordan

Sep 2015 – present

Associate professor of pharmacology and Toxicology

Undergraduate

- Delivering lectures for course in pharmacology I, II, III, OTC, Toxicology and pharmacokinetics
- Delivering lectures for course in therapeutics I, II, III and clinical cases I, II, III and Clinical Nutrition
- Delivering lectures for course in clinical pharmacy, drug information and evidence-based medicine.
- Delivering lectures for course in pharmaceutics I, II, III, Natural Products, Cosmetology.

Postgraduate

- Delivering lectures for course in Advanced pharmacology and therapeutics
- Research Methodology and seminars

Institute of Cancer Therapeutics, University of Bradford, Bradford, UK

Oct 2011 – Feb 2013

Demonstrator

- Demonstrated practical sessions of pharmacology for undergraduate pharmacy students.
- Assisted in practical courses for both MSc Cancer Pharmacology and Toxicology students by helping them to run their experiments and analyse the results on HPLC and LC/MS.
- Checked theses of master students and providing them with targets and goal for their research.
- Trained new lab members on practical techniques to ensure competence and personal safety.

Ibn Sina National College for Medical Studies, Jeddah, KSA

Apr 2008 – June 2010

Lecturer

- Delivered lectures for course in pharmacology to third year doctor of pharmacy students.
- Demonstrated practical sessions of pharmacology.
- Exam control member.
- Pharmaceutical laboratories coordinator.

PROFESSIONAL EXPERIENCE

El Matar Pharmacy, Sheraton Al-Matar, Cairo, Egypt

Feb 2007 – Feb 2008

Community Pharmacist

- Responsible for dispensing medications and prescribing OTC drugs.
- Drug Information Support to patients and patients follow-up.

Arab Contractors Medical Centre, Cairo, Egypt

July 2006 – Feb 2007

In- and Out-Patient Pharmacist

- Responsible for In-patient and out-patient pharmacies and drug dispensing to wards.
- On-site support for health team professionals.

VOLUNTEER EXPERIENCE

Completed various training in pharmacy in the following:

- Nasser Institute Hospital, oncology centre, clinical pharmacy unit, Cairo, Egypt (2008).
- EL Matar Pharmacy, Sheraton Heliopolis, Cairo, Egypt (2005).
- EL Shrook Pharmacy, Nasr City, Cairo, Egypt (2004).
- EL Matar Pharmacy, Masaken Sheraton, Cairo, Egypt (2003).
- EL Ezabi Pharmacy, Arkedia Mall, Cairo, Egypt (2002).

TRAINING COURSES

- "Clinical Pharmacy", Cairo University, Faculty of Pharmacy, Cairo, Egypt (2008).
- "Pharmaceutical Care", General Syndicate of Pharmacist, Cairo, Egypt (2007).
- "Clinical Practices for Pharmacists", International Culture Centre (ICC), Cairo, Egypt (2006).
- "New Drug Update and Adverse Drug Reporting", Misr International University, Cairo, Egypt (2006).

- “Principles of clinical pharmacy practice in hospitals”, Ain Shams University Specialized Hospital, Cairo, Egypt (2005)
- “Clinical and Hospital Pharmacy”, Ain Shams University, Faculty of Pharmacy, Cairo, Egypt (2005).

CONFERENCES AND WORKSHOPS

- “Active Pedagogical Techniques in Higher Education: Combining Multidisciplinary Learner-Centred Educational Experience from Egypt, Germany, Malaysia and the United State”, Mutah, Jordan (2018)
- The First International conference of Faculty of Pharmacy, Mutah University, “Advanced Technology in Pharmaceutical Sciences”, Dead Sea, Jordan. 18 -19 April, 2018.
Oral presentation entitled “Tumour-Targeted Prodrugs”.
- The 1st Scientific Meeting, University of Bradford, UK. 14-16 October 2013.
Poster presentation entitled “Design and Synthesis of Membrane-Type Matrix Metalloproteinase (MT-MMP) targeted anti-tumour agents”.
- Saudi Hypertension Conference, Saudi Commission for Health Specialities, Jeddah, KSA (2010).
- International Cardiovascular Pharmacotherapy conference and exhibition, Riyadh, KSA (2010).
- “Medication Safety Symposium”, International Medical Centre. Jeddah, KSA (2009).
- Saudi Pharmaceutical Society – Midyear meeting, Jeddah, KSA (2009).
- 5th Continuing Pharmacy Education, Faculty of Pharmacy, King Abd EL Azize University KSA (2009).
- “Symposium on Therapeutic Update” General Directorate of Health in Madinah Region, KSA (2009).
- “Basic Life Support”, Faculty of Medicine, King Abd EL Azize University Hospital, Jeddah, KSA (2009).

PROFESSIONAL MEMBERSHIPS

- Egyptian Syndicate of Pharmacists
- Member of British Association for Cancer Research (BACR).
- Member of European Association for Cancer Research (EACR).

PEER REVIEWING ROLES

- Phytotherapy Research
- Biomedical & Pharmacology Journal.

SKILLS

- **Languages:** English: Excellent Written and spoken.
- **Computer Skills:** WinWord, Excel, PowerPoint, Internet and mailing (ICDL certified).
- **Personal Skills:** Excellent presentation skills, effective working individually or as a part of a team, gain Experience and skills quickly, utilization of interactive teaching; datashow; powerpoint presentation; seminars and workshops.

ADMINISTRATIVE WORK

- Head of Clinical Pharmacy Department (2016 -2017)
- Member of the quality assurance and accreditation committee
- Member of the libraries committee
- Member of the scientific research committee
- Member of the Pharmaceutical Study Plan committee
- Member of the examination control office
- Member of pharmacy practice committee

RESEARCH INTEREST

- Endoprotease-activated anti-tumour agents, Pharmacokinetics and tumour drug metabolism of anti cancer drugs, Matrix metalloproteinases as targets for tumour-selective delivery of anticancer therapeutics, Novel advances in analytical techniques; HPLC and LC/MS/MS, Drug interactions both in vitro and in vivo.

REFEREES

- Prof. Paul Loadman, Professor of Drug Metabolism and Pharmacokinetics
Institute of Cancer Therapeutics, University of Bradford, Richmond road, Bradford BD7 1DP, UK
T: + 44 (0) 1274 233228 E: P.M.Loadman@bradford.ac.uk
- Dr. Robert Falconer, Reader in Medicinal Chemistry
Institute of Cancer Therapeutics, University of Bradford, Richmond Road, Bradford BD7 1DP, UK
T: + 44 (0) 1274 235842 E: r.a.falconer1@bradford.ac.uk
- Dr. Steve Shnyder, Senior Lecturer in Cancer Biology
Institute of Cancer Therapeutics, University of Bradford, Richmond Road, Bradford BD7 1DP, UK
T: + 44 (0) 1274 235898 E: S.D.Shnyder@Bradford.ac.uk

CONFERENCE PAPERS

- Falconer, R.A.; **Youssef, A.M.**; Gimenez-Warren, G.; RibeiroMorais, G.; Mitchell, A.; Shnyder, S.D.; Gill, J.H.; Patterson, L.H.; Loadman, P.M. "Design and Synthesis of Membrane-Type Matrix Metalloproteinase (MT-MMP) targeted anti-tumour agents." AACR Annual Meeting, 6-10 April 2013, Washington DC, USA. Abstract 5669.
- Falconer, R. A.; **Youssef, A.M.**; Mitchell, A.; Gill, J.H.; Loadman, P.M.; Patterson, L.H. "ICT-2588: A Membrane Type Matrix Metalloproteinase targeted anti-tumour agent" YCR Annual Scientific Meeting, 19 June 2012, Harrogate, UK. Abstract 44.
- Spencer, J.A.; Race, A.D.; Cooper, P.A.; Shnyder, S.D.; **Youssef, A.M.**; Giménez-Warren, J.; Patterson, L.H.; Adams K.; Gill, J.H.; Falconer, R.A.; Loadman, P.M. "ICT2588: a novel matrix metalloproteinase activated tumour selective prodrug. Pharmacokinetics, tissue distribution and metabolic activation following IV administration". EORTC-NCI-AACR Symposium on Molecular Targets and Cancer Therapeutics, 18-21 November 2014, Barcelona, Spain.

PUBLICATIONS

ORCID: 0000-0002-3299-6047

- Al-Saraireh Y, Alrawashdeh F, Al-Shuneigat J, Alsbou M, Alnawaiseh N, Al-Shagahin H, **Youssef A***. Screening of Glypican- 3 Expression in Human Normal Versus Benign and Malignant Tissues: A Comparative Study Glypican- 3 Expression in Cancers. Biosci Biotech Res Asia 2016;13: 687-692.
- Al-Saraireh Y, Haddadin W, Alboaisa N, Alarjat J, Al-Shuneigat J, Alnawaiseh N, **Youssef A***, Al-Shagahin H. Expression of Chemokine Receptor CXCR4 in Primary and Metastatic Neuroblastoma Expression of CXCR4 in Neuroblastoma. Biomed Pharmacol J 2016; 9: 425-431.
- Al-Saraireh YM, Haddadin WJ, Alboaisa NS, **Youssef AM***, Alsbou MS, Al-Shuneigat JM, Makeen HA, Al-Shagahin HM. Glypican-3 Expression in Primary and Metastatic Neuroblastoma. Jordan Journal of Biological Sciences 2016 Dec 1;9: 261-267.
- Youssef AMM***, El-Swaify ZA. Anti-Tumour Effect of two *Persicaria* Species Seeds on Colon and Prostate Cancers. Biomedical and Pharmacology Journal 2018 May 15;11: 635-644.
- Youssef AMM***, EL-Swaify ZAS, AL-Saraireh YM, AL-Dalain SM. Cytotoxic Activity of Methanol Extract of *Cynanchum acutum* L. Seeds on Human Cancer Cell Lines. Latin American Journal of Pharmacy 2018; 37: 1997-2003.

- **Youssef AM***, El-Swaify ZA, Al-Saraireh YM, Al-Dalain SM. Anticancer effect of different extracts of *Cynanchum acutum* L. seeds on cancer cell lines. *Pharmacognosy Magazine*. 2019; 15(64): S261-6.
- **Youssef AM***, EL-Swaify ZA, Maaty DA, Youssef MM. Comparative study of two *Lotus* species: Phytochemistry, cytotoxicity and antioxidant capacity. *Journal of Pharmacy & Pharmacognosy Research*. 2020; 8(6):537-48.
- Al-Saraireh YM, **Youssef AMM***, Alsarayreh AZ, Al Hujran TA, Al-Sarayreh S, Al-Shuneigat JM, Alrawashdeh HM. Phytochemical and anti-cancer properties of *Euphorbia hierosolymitana* Boiss. crude extracts. *Journal of Pharmacy & Pharmacognosy Research* . 2021; 9(1): 13–23.
- Al-Saraireh YM, Alshammari FO, **Youssef AM***, Al-Sarayreh S, Almuhaissen GH, Alnawaiseh N, Al Shuneigat JM, Alrawashdeh HM. Profiling of CYP4Z1 and CYP1B1 expression in bladder cancers. *Scientific Reports*. 2021 Mar 10;11(1):1-8.
- Alshammari FO, Al-Saraireh YM, **Youssef AM***, Al-sarayra YM, Alrawashdeh HM. Glypican-1 Overexpression in Different Types of Breast Cancers. *OncoTargets and Therapy*. 2021 Jul 30;14:4309-18.
- Al-Saraireh YM, Alshammari FO, **Youssef AM***, Al-Sarayreh S, Al-Sarayra YM, Aborajooch E, Al-Shuneigat J, Alrawashdeh HM. Screening of Glypican-6 Expression in Benign, Primary and Metastatic Colon Cancers. *Clinical Medicine Insights: Oncology*. 2021 Aug;15:1-7.
- Al-Saraireh YM, **Youssef AM***, Alshammari FO, Al-Sarayreh S, Al-Shuneigat J, Alrawashdeh HM Mahgoub SS. Phytochemical characterization and anti-cancer properties of extract of *Ephedra foeminea* (Ephedraceae) aerial parts. *Tropical Journal of Pharmaceutical Research*. 2021 Aug 31; 20: 1675-1681
- Al-saraireh YM, Alshammari FO, **Youssef AM***, Al-sarayra YM, Al-saraireh RA, Al-muhaissen GH, Al-mahdy YS, Al-Kharabsheh AM, Abufraijeh SM, Alrawashdeh HM. Cytochrome 4Z1 Expression Is Correlated with Poor Prognosis in Patients with Cervical Cancer. *Current Oncology*. 2021 Oct;28(5):3573-84.
- Al-saraireh YM, Alshammari FOFO, **Youssef AM***, Al-Tarawneh F, Al-Sarayreh S, Almuhaissen GH, Satari AO, Al-Shuneigat J, Alrawashdeh HM. Cytochrome 4Z1 Expression is Associated with Unfavorable Survival in Triple-Negative Breast Cancers. *Breast Cancer (Dove Med Press)*. 2021;13:565-574
- Alshammari FOFO, Al-saraireh YM, **Youssef AMM***, Al-Sarayra YM, Alrawashdeh HM Cytochrome P450 1B1 Overexpression in Cervical Cancers: Cross-sectional Study Interact J Med Res. 2021;10(4):e31150
- Al-saraireh YM, Alshammari FOFO, **youssef AMM***, Al-Sarayreh S, Almuhaissen GH, Alnawaiseh N, Al-Shuneigat JM, Alrawashdeh HM. Cytochrome 4Z1 Expression is Associated with Poor Prognosis in Colon Cancer Patients. *Onco Targets Ther*. 2021;14:5249-5260
- **Youssef AM***, EL ZA, Ahmed D, Maaty M, Youssef MM. Phytochemistry and Antiviral Properties of Two Lotus Species Growing in Egypt: Antimicrobial Activity of Two Lotus Species. *Vitae*. 2021 Dec 28;28(3).
- Hussein RM, **Youssef AM***, Magharbeh MK, Al-Dalaen SM, Al-Jawabri NA, Al-Nawaiseh TN, Al-Jwanieh A, Al-Ani FS. Protective Effect of *Portulaca oleracea* Extract Against Lipopolysaccharide-Induced Neuroinflammation, Memory Decline, and Oxidative Stress in Mice: Potential Role of miR-146a and miR-let 7. *J Med Food*. 2022 Mar 2. doi: 10.1089/jmf.2021.0097. Epub ahead of print. PMID: 35235435.