



Hamza Al-Hroub

Laboratory Supervisor

Male, Jordanian
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WORK EXPERIENCE

<p>Research Institute of Medical & Health Sciences at University of Sharjah Sharjah, UAE Nov 2020 - Present</p>	<p>Lab Supervisor 1) Receive and process biological, pharmaceutical, synthetic, industrial and natural samples, then analyse them on different instruments including TIMS-TOF, MALDI-TOF, HPLC, LC-MS/MS, GC-MS, and ICP-OES. 2) Instruct researchers and students in the proper operation of the analytical equipment such as TIMS-TOF, MALDI-TOF, ICP-OES, GC-MS, LC-MS/MS, HPLC, and Spectrophotometer.</p>
<p>Pharmacy & Medical Sciences Department at University of Petra Amman, Jordan Apr 2014 – Nov 2016</p>	<p>Lab Supervisor 1) Train master students to develop and validate HPLC and LC-MS/MS methods, and help them with research projects, instrument training and data processing. 2) Receive, process and analyze biological, pharmaceutical, synthetic, natural and industrial samples from faculty researchers and interact with them on research projects. 3) Stability studies of new drug formulations in comparison with established one using proper analysis technique, including HPLC, UV-Vis. and Dissolution. 4) Instruct faculty and students in the proper operation of the analytical equipment and interpretation of data such as HPLC, LC-MS/MS, GC-MS, Preparative HPLC, Spectrophotometer, FTIR, IR, AAS, Dissolution, Thermal analysis, Freeze drying, Rotary evaporator, Melting point apparatus, etc... 5) Contribute to the general laboratory maintenance activities, including equipment calibration and maintenance, general lab clean-up and proper waste disposal.</p>
<p>Jordan Center for Pharmaceutical Research Amman, Jordan Oct 2005 – Dec 2013</p>	<p>Lab Supervisor 1) Perform analytical methods development and validation for quantification of small molecules in Pharmaceutical Drug Products in a biological matrix (serum, plasma and saliva) using high-pressure liquid chromatography (HPLC) and mass spectrometric techniques (LC-MS/MS) according to EMEA guidelines. 2) Perform analytical methods development and validation for quantification of Drug Products in pharmaceutical dosage form by using HPLC and UV-Vis. spectrophotometer. 3) Application of validated method to routine sample analysis by using several types of detectors (UV, Fluorescence and MS/MS-API (3000,3200 and 4000)) in the Good Laboratory Practices/Good Manufacturing Practices (GLP/GMP) environment. 4) Prepare Standard Operating Procedures (SOPs) and other generic documents. 5) Statistical and pharmacokinetic analysis by using SPSS and Winnonlin programs. 6) Excellent usage, Calibration and Maintenance for some types of HPLC's like: Dionex, Merck-Hitachi, Agilent and Finnigan Surveyor.</p>

- Familiarity with drug development and pharmaceutical industries.
- Good knowledge of drug metabolism-pharmacokinetics (DMPK), proteomics, and metabolomics.
- Demonstrated analytical problem solving skills.
- Team player, hard-working researcher, and excellent leadership skills.
- Ability to multi-task and work with a diverse research group.
- Excellent coordination and communication skills.
- Flexible treatment with any of new software and perfect command of computer skills.
- General maintenance (software & hardware).

ABOUT ME

Experienced bioanalytical lab supervisor with a demonstrated history of working in bioanalytical and pharmaceutical research fields. Excellent experience with HPLC and LC-MS/MS and extensive hands-on experience with preparation and extraction of small molecules drugs and metabolites in biological matrices (serum, plasma and saliva) in the GLP environment by using proper sample preparation procedures, such as PPT, LLE and SPE. Enthusiastic to gain new experiences and always looking for new knowledge.

EDUCATION

B.Sc. degree in Chemistry Science (GPA very good)
Hashemite University
Zarqa, Jordan
2001 – 2005

Skills

- ❖ International Conference and Exhibition on HPLC and Chromatography Techniques during March 14-15, 2016 in London, United Kingdom.
- ❖ Tobacco Dependence Treatment Training by Richard D. Hurt. Global Bridges, Healthcare Alliance for Tobacco Dependence Treatment. April 7-9, 2014 in Amman, Jordan.
- ❖ Qualified Service Operator Training on the API 3200 and API 3000 Mass Spectrometer by Eng. Mar'ie Khawajah (Applied Biosystems, MDS SCIEX), June 2011.
- ❖ Mass Spectrometer Training Course by Dr. Michael Zhou (JAPM/USAID), April 19-20, 2011 in Amman, Jordan.
- ❖ HPLC Method Development by Dr. John W Dolan (LC Resources, Hichrom Limited), 27th October 2008 in Amman, Jordan.

Publications and Researches

- 1) RP-HPLC-UV method for the quantification of propranolol in rat's serum and Krebs buffer using one-step protein precipitation. Hanadi A. Al shaker, Nidal A. Qinna, **Hamza Al Hroub**, Mahmoud M.H. Al Omari, Adnan A. Badwan. *ActaChromatographica*, 10/2017, DOI: 10.1556/1326.2017.00018
- 2) Sensitive and rapid HPLC-UV method with back-extraction step for the determination of sildenafil in human plasma. **Hamza Al-Hroub**, Bayan Alkhawaja, EmanAlkhawaja, Tawfiq Arafat. *Journal of Chromatography B*, 2015.
- 3) Relative Bioavailability of Ciprofloxacin Doses (750 and 1000) mg in Healthy Male Volunteers by Using HPLC Method. Mallah E, Arafat B, Al khawaja B, Abu Dayyih W, Abu Awad A, **Hroub HA**, Hamad M and Arafat T. *Journal of Bioequivalence Studies*, Vol.1, Issue1 2015.
- 4) Simultaneous Determination of Paracetamol and its Metabolites in Rat Serum by HPLC Method and its Application Supplement-Drug Pharmacokinetic Interaction. Bayan Alkhawaja, Tawfiq Arafat, EyadMallah, NidalQinna, NaserIdkaidek, Wael Abu Dayyih, **Hamza Alhroub**, Adnan Badwan. *International Journal of Pharmaceutical Analysis*, ISSN: 2051-2740, Vol.39, Issue.2.
- 5) High-Performance Liquid Chromatographic Determination of Montelukast Sodium in Human Plasma: Application to Bioequivalence Study. Ashok K. Shakya, Tawfiq A. Arafat, Nancy M. Hakooz, Ahmad Abuawaad, **Hamza Al-Hroub**, MuntherMelhim. *ActaChromatographica*, 07/2013, DOI: 10.1556/ACHrom.26.2014.3.5.
- 6) Pharmacokinetics of 600 mg loading dose of clopidogrel in patients undergoing percutaneous coronary intervention. AL-MotassemYousef, Ola Al-Diab, Tawfiq Arafat, Atharkhribash, Akram El-Saleh, and **Hamzah Al-Hroub**. *African Journal of Pharmacy and Pharmacology*, Vol. 7(11), pp. 574-584, 22 March, 2013.
- 7) Simple and rapid HPLC method for the determination of alfuzosin in human plasma. Ashok K. Shakya, Tawfiq A. Arafat, Ahmad Abuawaad, **Hamza Al-Hroub**, Munther Melhim. *Jordan Journal of Pharmaceutical Sciences*, 2010 Volume 3, No. 1, 2010.
- 8) Pomegranate and licorice juices modulate metformin pharmacokinetics in rats. Riad Awad, Eyad Mallah, Bayan Al Khawaja, Wael Abu Dayyih, Feras El-Hajji, Khalid Z. Matalaka, Tawfiq Arafat. *Neuroendocrinol Lett* 2016; 37(3):101-107.
- 9) Determination of carbamazepine in rat plasma in the presence of licorice juice by using HPLC and its pharmacokinetic applications. Moh'd Salem aldajeh, Eyad Mallah, Riad Awad, Wael Abu Dayyih, Feras Darwish Elhajji, Israa H. Al-ani, Basmah A. Othman and Tawfiq Arafat. *Journal of Chemical and Pharmaceutical Research*, 2015, 7(12):116-126.
- 10) Determination of hydrolysis parameters of yohimbine HCL at neutral and slightly acidic medium. Riad Awad, Eyad Mallah, Faisal Al-akayleh, Tawfiq Arafat, Bayan Alkhawaja, Kenza Mansoor, Wael Abu Dayyih. *International Journal of Pharmacy and Pharmaceutical Sciences*, Vol 7, Issue 5, 2015.
- 11) The effect of ethyl acetate extract of pomelo mix on systemic exposure of verapamil in rabbits.
- 12) Aqel SM, Irshaid YM, Gharaibeh MN, Arafat TA. *Drug Metabolism Letters*, 2011 Apr;5(2):92-8.
- 13) The Effect of Licorice Drink on the Systemic Exposure of Verapamil in Rabbits. Ibraheem Al-Deeb, Tawfeeq Arafat and Yacoub Irshaid. *Drug Metabolism Letters*, Aug 2010, Vol. 4 Issue 3.
- 14) Validated liquid chromatographic-ultraviolet method for the quantitation of tadalafil in human plasma using liquid-liquid extraction. Ashok K. Shakya, Ahmed N.A. Abu-awwad, Tawfiq A. Arafat, Munther Melhim, *Journal of Chromatography B*, 852 (2007) 403-408.