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EDUCATION:

2007-2011: PhD in Medicinal Chemistry, University of Strathclyde, UK.

2006-2007: Msc in pharmaceutical analysis, University of Strathclyde, UK.

1998-1999: MSc Clinical Epidemiology (Pharmacoepidemiology), NIHES, Erasmus University.

1991-1995: Bachelors of Pharmacy, Jadavpur University, Calcutta, India.

WORK EXPERIENCE:

Current: Assistant professor Faculty of pharmacy at An-Najah university (Taught course: Medicinal chemistry, Instrumental analysis, Scientific research, Pharmacognosy lab, Pharmacy legislation)

2007-2011: PhD student at University of Strathclyde

2006-2007: Msc. Student in pharmaceutical analysis at University of Strathclyde

2002-2006: Responsible pharmacist and Chief Drug analyst, Drug unit, Central Public Health Laboratory (M.O.H).

2002-2006: Part time lecturer in pharmacy and chemistry subjects in the Modern Community College, Palestine, Ramallah.

1999-2006: Part time community Pharmacist in Al Faiha Community Pharmacy shop, Ramallah, Palestine

1996-2002: Drug inspectors, at the Department of Drug Quality, Assurance and Registration, Ministry of Health, Palestine.

April 1996- Sept.1996: Worked full-time as a responsible pharmacist in Red Crescent Society Hospital, Ramallah, Palestine.

SKILLS

- 1- Working experience on chemical and analytical equipments: Biotage flash chromatography system, Microwave reactor, NMR, HPLC, GC, UV-Vis, IR, ATR & LCMS.
- 2- Working experience with drug virtual screening and docking programs like Insight II, GOLD docking program.
- 3- Working experience on statistical packages : SPSS, Minitab
- 4- Microsoft packages: Excel, WinWord, Access, PowerPoint
- 5- Languages: good spoken and written foreign languages like: English, Hindi, Dutch

AWARDS:

1. Zamalah fellowship for 4 month at university of Strathclyde – UK working with LC/MS/MS on bioanalysis project
2. Scholarship Award from Netherlands Organization for International Cooperation in Higher Education and Research (Nuffic) to complete my MSc. Clinical Epidemiology (Pharmacoepidemiology) Erasmus university (NIHES), Netherland
3. Scholarship Award from Said foundation to complete my Msc in pharmaceutical analysis at University of Strathclyde.
4. Scholarship Award From University of Strathclyde to complete my PhD in Medicinal Chemistry

Training courses:

- A Pharmaceutical manufacturing training in Infar (India) limited, for one month in different sections of the company, August, 1995, Calcutta, India.
- Pharmaceutical Inspection held by Pharmaceis Sans Frontieres, June 1997, Ramallah, Palestine.
- Quality assurance and Drug inspection course held in the Pharmacy directorate, MOH, by WHO representative December 1997, Ramallah, Palestine.
- Integrated Production Control System Course, held by USAID, May 1998, Ramallah, Palestine.
- Drug Quality Control a one month training course at Birzeit University in Centre for Environment & Occupational Health Science, June 1998, Birzeit, Palestine.
- Erasmus summer program August 10-28, 1998, Rotterdam, Netherlands.
- Dutch language course September-December 1998, Rotterdam, Netherlands.
- Pharmacoepidemiology & Clinical trials held by the Mediterian School of Medical Statistics and Clinical Epidemiology, June 1999, Siracuse, Italy.
- Advanced instrumental analysis, one month course in advanced instrumental analysis in Central Public Health laboratory (CPHL) funded by the Italian Cooperation, June, 2004. Ramallah, Palestine
- Good Laboratory Practice (GLP) in Central Public Health laboratory (CPHL) funded by the Italian Cooperation August, 2004, Ramallah, Palestine.
- Development, Scale up and production of Biopharmaceuticals, National Institute of Pharmaceutical Education and Research (NIPER), August, 2004, SAS Nagar, India.
- Basic Management course held by Primary Health Care Directorate, MOH, March, 2006, Ramallah Palestine.
- First Aid at Work, in Up-Front training Centre, October, 2008, Glasgow, UK.

[1-80]

PUBLICATION:

- [1] Shaqour B, Natsheh H, Kittana N, Jaradat N, Abualhasan M, Eid AM, et al. Modified Release 3D-Printed Capsules Containing a Ketoprofen Self-Nanoemulsifying System for Personalized Medical Application. *ACS Biomaterials Science & Engineering* 2024;10:3833-41.
- [2] Jaradat N, Hawash M, Abualhasan M, Al-Maharik N, Qadi M, Qabaha R, et al. Chemical analysis and bioactivity evaluation of Citrus limon leaves volatile oil from Palestine: investigating phytochemical, anti-inflammatory, antimicrobial, and cytotoxic properties. *Journal of Herbal Medicine* 2024;48:100954.
- [3] Hawash M, Jaradat N, Abualhasan M, Jadallah J, Fashafsheh L, Zaid S, et al. Integrative bioinformatic and experimental analysis of benzoylbenzodioxol derivatives: hypoglycemic potential in diabetic mice. *3 Biotech* 2024;14:255.
- [4] Hawash M, Abdallah S, Abudayyak M, Melhem Y, Abu Shamat M, Aghbar M, et al. Exploration of isoxazole analogs: Synthesis, COX inhibition, anticancer screening, 3D multicellular tumor spheroids, and molecular modeling. *European Journal of Medicinal Chemistry* 2024;271:116397.
- [5] Altarifi D, Harb T, Abualhasan M. Patient satisfaction with pharmaceutical services at primary healthcare centers under the Palestinian Ministry of Health. *BMC Health Services Research* 2024;24:514.
- [6] Abualhasan M, Naffa L, Alarda Ra, Zahi B, Amireh A, Al-Atrash M. Heavy metal and microbial testing of selected cosmetic products in the Palestinian market. *Journal of Environmental Science and Health, Part C* 2024;42:1-15.
- [7] Jaradat N, Abualhasan M, Hawash M, Qadi M, Al-Maharik N, Abdallah S, et al. Chromatography analysis, in light of vitro antioxidant, antidiabetic, antiobesity, anti-inflammatory, antimicrobial, anticancer, and three-dimensional cancer spheroids' formation blocking activities of *Laurus nobilis* aromatic oil from Palestine. *Chemical and Biological Technologies in Agriculture* 2023;10:25.
- [8] Hawash M, Jaradat N, Sabobeh R, Abualhasan M, Qaoud MT. New Thiazole Carboxamide Derivatives as COX Inhibitors: Design, Synthesis, Anticancer Screening, In Silico Molecular Docking, and ADME Profile Studies. *ACS Omega* 2023;8:29512-26.
- [9] Hawash M, Jaradat N, Abualhasan M, Şüküroğlu MK, Qaoud MT, Kahraman DC, et al. Design, synthesis, molecular docking studies and biological evaluation of thiazole carboxamide derivatives as COX inhibitors. *BMC Chemistry* 2023;17:11.
- [10] Hawash M, Jaradat N, Abualhasan M, Qneibi M, Rifai H, Saqfelhait T, et al. Evaluation of Cytotoxic, COX Inhibitory, and Antimicrobial Activities of Novel Isoxazole-carboxamide Derivatives. *Letters in Drug Design & Discovery* 2023;20:1994-2002.
- [11] Eid AM, Hawash M, Abualhasan M, Naser S, Dwaikat M, Mansour M. Exploring the Potent Anticancer, Antimicrobial, and Anti-Inflammatory Effects of *Capparis Spinosa* Oil Nanoemulgel. *Coatings* 2023;13:1441.
- [12] Abualhasan M, Tahan S, Nassar R, Damere M, Salameh H, Zyoud H. Pharmacists' knowledge of drug food administration and their appropriate patient counseling a cross-sectional study from Palestine. *Journal of health, population, and nutrition* 2023;42:99.
- [13] Abualhasan M, Jaradat N, Hawash M, Shraim N, Asaad M, Mousa A, et al. Chromatographic analysis of the chemical composition and anticancer activities of *Curcuma longa* extract cultivated in Palestine. *Open Life Sciences* 2023;18.
- [14] Abualhasan M, Hawash M, Aqel S, Al-Masri M, Mousa A, Issa L. Biological Evaluation of Xanthene and Thioxanthene Derivatives as Antioxidant, Anticancer, and COX Inhibitors. *ACS Omega* 2023;8:38597-606.

- [15] Jaradat N, Qneibi M, Hawash M, Al-Maharik N, Qadi M, Abualhasan MN, et al. Assessing *Artemisia arborescens* essential oil compositions, antimicrobial, cytotoxic, anti-inflammatory, and neuroprotective effects gathered from two geographic locations in Palestine. *Industrial Crops and Products* 2022;176:114360.
- [16] Jaradat N, Hawash M, Qadi M, Abualhasan M, Odetallah A, Qasim G, et al. Chemical Markers and Pharmacological Characters of *Pelargonium graveolens* Essential Oil from Palestine. *Molecules* 2022;27:5721.
- [17] Jaradat N, Al-Maharik N, Hawash M, Abualhasan MN, Qadi M, Ayeshe O, et al. Essential Oil Composition, Antimicrobial, Cytotoxic, and Cyclooxygenase Inhibitory Areas of Activity of *Pistacia lentiscus* from Palestine. *Arabian Journal for Science and Engineering* 2022;47:6869-79.
- [18] Hawash M, Qneibi M, Jaradat N, Abualhasan M, Amer J, Amer ELH, et al. The impact of filtered water-pipe smoke on healthy versus cancer cells and their neurodegenerative role on AMPA receptor. *Drug and Chemical Toxicology* 2022;45:2292-300.
- [19] Hawash M, Jaradat N, Abualhasan M, Thaher M, Sawalhi R, Younes N, et al. In vitro and in vivo assessment of the antioxidant potential of isoxazole derivatives. *Scientific Reports* 2022;12:18223.
- [20] Hawash M, Jaradat N, Abualhasan M, Qaoud MT, Joudeh Y, Jaber Z, et al. Molecular docking studies and biological evaluation of isoxazole-carboxamide derivatives as COX inhibitors and antimicrobial agents. *3 Biotech* 2022;12:342.
- [21] Abualhasan M, Shraim F, Alawni H, Hamdan S, Khaseeb H. HPLC Analytical Method Development and Validation of Gabapentin through Chemical Derivatization with Catechol as a Chromophore. *International Journal of Analytical Chemistry* 2022;2022:3882682.
- [22] Abualhasan M, Jaradat N, Maslamani R, Nofal D, Omar L. Synthesis of enhanced lipid solubility of indomethacin derivatives for topical formulations. *Heterocyclic Communications* 2022;28:124-9.
- [23] ABUALHASAN M, JARADAT N, AL-RIMAWI F, SHAHWAN M, MANSOUR D, ALHEND Z, et al. Bioactivity evaluation of synthesized flavone analogs. *Food Science and Technology* 2022;42.
- [24] Abualhasan M, Assali M, Mahmoud A, Zaid NA, Malkieh N. Synthesis of Rutin Derivatives to Enhance Lipid Solubility and Development of Topical Formulation with a Validated Analytical Method. *Current Drug Delivery* 2022;19:117-28.
- [25] Murad Abualhasan, Nidal Z, Kefah Abu S, Nasr S. Tablet Formulation of a Synthesized Celecoxib Potassium Salt and Development of a Validated Method for Its Analysis. *Current Pharmaceutical Design* 2021;27:2872-80.
- [26] Murad A, Amal Q, Salam Q, Tasneem K. Method Development of Clarithromycin by Chromophore Addition through Chemical Derivatization. *Current Pharmaceutical Analysis* 2021;17:822-8.
- [27] Jaradat N, Hawash M, Abualhasan MN, Qadi M, Ghanim M, Massarwy E, et al. Spectral characterization, antioxidant, antimicrobial, cytotoxic, and cyclooxygenase inhibitory activities of *Aloysia citriodora* essential oils collected from two Palestinian regions. *BMC Complementary Medicine and Therapies* 2021;21:143.
- [28] Jaradat N, Ghanim M, Abualhasan MN, Rajab A, Kojok B, Abed R, et al. Chemical compositions, antibacterial, antifungal and cytotoxic effects of *Alhagi mannifera* five extracts. *Journal of complementary & integrative medicine* 2021.
- [29] Jaradat N, Dacca H, Hawash M, Abualhasan MN. *Ephedra alata* fruit extracts: phytochemical screening, anti-proliferative activity and inhibition of DPPH, α -amylase, α -glucosidase, and lipase enzymes. *BMC Chemistry* 2021;15:41.
- [30] Hawash M, Jaradat N, Shekfeh S, Abualhasan M, Eid AM, Issa L. Molecular docking, chemo-informatic properties, α -amylase, and lipase inhibition studies of benzodioxol derivatives. *BMC Chemistry* 2021;15:40.
- [31] Hawash M, Jaradat N, Abualhasan M, Amer J, Levent S, Issa S, et al. Synthesis, chemo-informatics, and anticancer evaluation of fluorophenyl-isoxazole derivatives. *Open Chemistry* 2021;19:855-63.
- [32] Badran I, Qut O, Manasrah AD, Abualhasan M. Continuous adsorptive removal of glimepiride using multi-walled carbon nanotubes in fixed-bed column. *Environmental Science and Pollution Research* 2021;28:14694-706.

- [33] Abualhasan MN, Dwaikat S, Ataya RE, Ali A, Al-Atrash M. Quality evaluation of iron-containing food supplements in the Palestinian market. *Food Science and Technology International* 2021.
- [34] Salameh N, Shraim N, Jaradat N, El Masri M, Adwan L, K'aibni S, et al. Screening of Antioxidant and Antimicrobial Activity of *Micromeria fruticosa serpyllifolia* Volatile Oils: A Comparative Study of Plants Collected from Different Regions of West Bank, Palestine. *BioMed research international* 2020;2020.
- [35] Qadi M, Jaradat N, Al-lahham S, Ali I, Abualhasan MN, Shraim N, et al. Antibacterial, Anticandidal, Phytochemical, and Biological Evaluations of Pellitory Plant. *BioMed Research International* 2020;2020:6965306.
- [36] Jaradat N, Qadi M, Abualhasan MN, Al-lahham S, Al-Rimawi F, Hattab S, et al. Carbohydrates and lipids metabolic enzymes inhibitory, antioxidant, antimicrobial and cytotoxic potentials of *Anchusa ovata* Lehm. from Palestine. *European Journal of Integrative Medicine* 2020;34:101066.
- [37] Jaradat N, Hawash M, Abualhasan M. Synthesis and Biological Evaluation of Benzodioxol Derivatives as Cyclooxygenase Inhibitors. *Letters in Drug Design & Discovery* 2020;17:1117-25.
- [38] Jaradat N, Abualhasan MN, Qadi M, Issa L, Mousa A, Allan F, et al. Anti-amylase, Anti-lipase, Antimicrobial, and Cytotoxic Activity of *Nonea obtusifolia* (Willd.) DC. from Palestine. *BioMed Research International* 2020;2020:8821319.
- [39] Hawash M, Eid AM, Jaradat N, Abualhasan M, Amer J, Naser Zaid A, et al. Synthesis and Biological Evaluation of Benzodioxole Derivatives as Potential Anticancer and Antioxidant agents. *Heterocyclic Communications* 2020;26:157-67.
- [40] Assali M, Abualhasan M, Zohud N, Ghazal N. RP-HPLC Method Development and Validation of Synthesized Codrug in Combination with Indomethacin, Paracetamol, and Famotidine. *International Journal of Analytical Chemistry* 2020;2020.
- [41] Assali M, Abualhasan M, Sawaftah H, Hawash M, Mousa A. Synthesis, Biological Activity, and Molecular Modeling Studies of Pyrazole and Triazole Derivatives as Selective COX-2 Inhibitors. *Journal of Chemistry* 2020;2020:6393428.
- [42] Al-Maharik N, Jaradat N, Qneibi M, Abualhasan MN, Emwas N. *Glechoma curviflora* Volatile Oil from Palestine: Chemical Composition and Neuroprotective, Antimicrobial, and Cyclooxygenase Inhibitory Activities. *Evidence-Based Complementary and Alternative Medicine* 2020;2020:4195272.
- [43] Abualhasan MN, Nidal J, Hawash M, Khayat R, Khatatbeh E, Ehmidan M, et al. Evaluation of Heavy Metal and Microbial Contamination in Green Tea and Herbal Tea Used for Weight Loss in the Palestinian Market. *Evidence-Based Complementary and Alternative Medicine* 2020;2020:7631562.
- [44] Abualhasan MN, Al-Masri MY, Manasara R, Yadak L, Abu-Hasan NS. Anti-Inflammatory and Anticoagulant Activities of Synthesized NSAID Prodrug Esters. *Scientifica* 2020;2020:9817502.
- [45] Abualhasan M, Odeh NW, Younis GN, Zeidan OF. Analytical Method Development for Sodium Valproate through Chemical Derivatization. *Int J Anal Chem* 2020;2020:5672183.
- [46] Murad A, Mohyeddin A, Nidal J, Tala S. Synthesis, Formulation and Analytical Method Validation of Rutin Derivative. *Letters in Drug Design & Discovery* 2019;16:685-95.
- [47] Murad A, David GW. Tagging Fatty Acids Via Choline Coupling for the Detection of Carboxylic Acid Metabolites in Biological Samples. *Current Analytical Chemistry* 2019;19.
- [48] Jaradat NA, Al-lahham S, Zaid AN, Hussein F, Issa L, Abualhasan MN, et al. *Carlina curretum* plant phytoconstituents, enzymes inhibitory and cytotoxic activity on cervical epithelial carcinoma and colon cancer cell lines. *European Journal of Integrative Medicine* 2019;30:100933.
- [49] Jaradat N, Khasati A, Abu-Shanab BA, Al-lahham S, Naser Zaid A, Abualhasan MN, et al. Bactericidal, Fungicidal, Helminthicidal, Antioxidant, and Chemical Properties of *Chrozophora obliqua* Extract. *Phytothérapie* 2019.
- [50] Jaradat N, Al-lahham S, Abualhasan MN, Ghannam D, Mousa K, Kolayb H, et al. Chemical Fingerprinting, Anticancer, Anti-inflammatory and Free Radical Scavenging Properties of *Calamintha fenclii* Vis. Volatile Oil from Palestine. *Arabian Journal for Science and Engineering* 2019.

- [51] Abualhasan M, Jaradat N, Sawaftah Z, Mohsen H, Najjar D, Zareer W. Evaluation of Heavy Metals and Microbiological Contamination of Selected herbals from Palestine. *Open Life Sciences* 2019. p. 448.
- [52] Jaradat N, Al-lahham S, Abualhasan MN, Bakri A, Zaide H, Hammad J, et al. Chemical Constituents, Antioxidant, Cyclooxygenase Inhibitor, and Cytotoxic Activities of *Teucrium pruinum* Boiss. *Essential Oil. BioMed Research International* 2018;2018:9.
- [53] Abualhasan M, Basim A, salahat A, Sofan S, Al-Atrash M. Quality of water used in Palestinian hemodialysis centers. *Public Health* 2018;165:136-41.
- [54] Jaradat NA, Ali I, Zaid AN, Abualhasan M. Effect of Processing Methods on Antioxidant Activity, Phenol and Flavonoid Content of *Urtica kioviensis* Leaves. *Jordan Journal of Pharmaceutical Sciences* 2017;10.
- [55] Batrawi N, Wahdan S, Abualhasan M. Analytical Method Validation of High-Performance Liquid Chromatography and Stability-Indicating Study of Medroxyprogesterone Acetate Intravaginal Sponges. *Analytical Chemistry Insights* 2017;12:1177390117690152.
- [56] Abualhasan MN, Zaid AN, Jaradat N, Mousa A. GC Method Validation for the Analysis of Menthol in Suppository Pharmaceutical Dosage Form. *International Journal of Analytical Chemistry* 2017;2017:5.
- [57] Abualhasan MN, Mansour J, Jaradat N, Zaid AN, Khadra I. Formulation and Development of a Validated UV-Spectrophotometric Analytical Method of Rutin Tablet. *International Scholarly Research Notices* 2017;2017:7.
- [58] Abualhasan M, Qutob T, Obedat S, Yahya D, Watson, G D. Dissolution Method Development and Validation of Rutin Tablet. *Palestinian Medical and Pharmaceutical Journal (PMPJ)* 2017;2:55-62.
- [59] Zaid AN, Abualhasan MN, Jaradat N, Marar M, Mansoor K, Qa'dan F. Development and validation of a new analytical HPLC method for the estimation of carvone in suppositories. *Journal of Pharmaceutical Investigation* 2016:1-7.
- [60] Zaid AN, Abualhasan M, Al-Masri M, Jaradat N, Ziada I, Ayash N, et al. Extemporaneous Compounding and Stability Evaluation of Paracetamol-honey Based Syrup for Pediatric use. *Asian Journal of Pharmaceutics* 2016;10:S276.
- [61] Jaradat NA, Damiri B, Abualhasan MN. Antioxidant evaluation for *Urtica urens*, *Rumex cyprius* and *Borago officinalis* edible wild plants in Palestine. *Pak J Pharm Sci* 2016;29:325-30.
- [62] Jaradat N, Abualhasan M. Comparison of Phytoconstituents, Total Phenol Contents and Free Radical Scavenging Capacities between Four Arum Species from Jerusalem and Bethlehem: Phytoconstituents, Total Phenol Contents and Free Radical Scavenging Capacities between Four Arum Species. *Pharm Sci* 2016;22.
- [63] Zaid An, Qaddomi A, Ghanem M, Shehadeh L, Abualhasan M, Natur S, et al. Development of a Dissolution Method to Compare Tablet Formulations Containing Valsartan/Amlodipine. *Dissolution Technologies* 2015.
- [64] Zaid AN, Abualhasan MN, Watson DG, Mousa A, Ghazal N, Bustami R. Investigation of the bioequivalence of montelukast chewable tablets after a single oral administration using a validated LC-MS/MS method. *Drug Des Devel Ther* 2015;9:5315-21.
- [65] Jaradat NA, Abualhasan M, Ali I. Comparison of Anti-Oxidant Activities and Exhaustive Extraction Yields between Wild and Cultivated *Cyclamen persicum*, *Malva sylvestris* and *Urtica pilulifera* Leaves. *Journal of Applied Pharmaceutical Science* 2015;5:101-6.
- [66] Jaradat N, Eid A, Abdelwahab F, Isa L, Abdulrahman A, Abualhasan M, et al. Phytochemical Analysis, Quantitative Estimations of Total Phenols and Free Radical Scavenging Activity of *Bupleurum subovatum* from Jerusalem. *Pharmaceutical Sciences* 2015;21.
- [67] Amin JN, Abualhasan M, Motasem A-M, Ibrahim SR, Ass'ad JM, Ayed AM. Phytochemical Screening and In-vitro Evaluation of Antioxidant and Antimicrobial Activities of the Entire *Khella* Plant (*Ammi visnaga*. L.) A member of Palestinian Flora. *International Journal of Pharmacognosy and Phytochemical Research* 2015;7:137-43.

- [68] Abualhasan MN, Hamad VN, Abdulsamd M, Robe TY, Al Atrash M. A Pilot Study to Evaluation of the Level of Knowledge and Quality of Water Used in Drug Reconstitution among Community Pharmacist in Palestine. *British Journal of Pharmaceutical Research* 2015;8:1-7.
- [69] Abualhasan MN, Ghanem MM, Assali M, Zaid AN. The effect of non-compliance of PPI instruction on the stability of reconstituted oral antibiotics. *Journal of Applied Pharmaceutical Science* 2015;5:143-6.
- [70] Abualhasan MN, Assali M, Zaid AN, Jaradat N, Tarayra R, Hamdan A, et al. Synthesis and Formulation of Ibuprofen Pro-Drugs for enhanced Transdermal Absorption. *International Journal of Pharmacy and Pharmaceutical Sciences* 2015.
- [71] Abualhasan M, Jaradat N. Comparison in vitro of Antioxidant Activity between Fifteen Campanula Species (Bellflower) from Palestinian Flora. *Pharmacognosy Journal* 2015;7:276-9.
- [72] Zaid AN, Natur S, Qaddomi A, Abualhasan M, Al-Ramahi R, Shraim N, et al. Formulation and bioequivalence of two Valsartan/Amlodipine Immediate release tablets after a single oral administration. *Pak J Pharm Sci* 2014;27:755-62.
- [73] Assali M, Zaid AN, Abualhasan M, Jaradat N, Tarayra R, Hamdan A, et al. Synthesis of Naproxen pro-drugs for enhanced transdermal absorption *Journal of Chemical and Pharmaceutical Research* 2014;6:1-4.
- [74] Abualhasan M, Jaradat N, Abu-Hasan N, Almasri M, Taha AA, Rabbaa A, et al. Bioactivity of Viscum album extracts from Olive and Almond host plants in Palestine. *Pharmacognosy Journal* 2014;6:38.
- [75] Abualhasan M, Batrawi N, Zaid A, Watson D. A Validated and Stability Indicating HPLC Method for Analysis of Diminazene Aceturate and Antipyrine Combination in a Ready Injectable Solution. *Drug research* 2013;63:300-4.
- [76] Zaid AN, Abualhasan M, Aiman Q, Shehdeh J. Development of Film Coated Atrovastatin Calcium Tablet Using OPADRY-OY. *International Journal of Drug Delivery* 2012;4:229.
- [77] Kharaof M, Malkieh N, Abualhasan M, Shubitah R, Jaradat N, Zaid AN. Tablet formulation and development of a validated stability indicating hplc method for quantification of valsartan and hydrochlorthiazide combination. *International Journal of Pharmacy and Pharmaceutical Sciences* 2012;4:284-90.
- [78] Abualhasan MN, Good JA, Wittayanarakul K, Anthony NG, Berretta G, Rath O, et al. Doing the methylene shuffle—Further insights into the inhibition of mitotic kinesin Eg5 with S-trityl L-cysteine. *European journal of medicinal chemistry* 2012;54:483-98.
- [79] Abualhasan MN, Batrawi N, Sutcliffe OB, Zaid AN. A Validated Stability-Indicating HPLC Method for Routine Analysis of an Injectable Lincomycin and Spectinomycin Formulation. *Scientia pharmaceutica* 2012;80:977.
- [80] Abualhasan M, Sutcliffe O, Kozielski F, Mackay S. Design and synthesis of novel EG5 inhibitors. *Journal of Pharmacy and Pharmacology* 2010;62:1367-.