College of Pharmacy

Research Groups > Drug Formulations, Analysis and Characterization Group

Drug Formulations, Analysis and Characterization Group

Members

- Dr. Khairi Salem (Head)
- Prof. Mohammad Hudaib
- Dr. Mosab Arafat
- Dr. Muhammad Safraz
- Dr. Mohammad Bostanudin
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Research areas

- Targeted drug delivery
- Drug formulations and in vivo and in vitro testing
- Physico-chemical characterization of drug
- Stability testing
- Development of analytical methods

Research interest

Our research focus on:

- Targeted drug delivery including particle size reduction and drug-carrier loading studies.
- Drug formulations and in vivo and in vitro testing, which involve preparation of dosage forms and testing drug products performance in vitro and in mice.
- Physico-chemical characterization of drugs via determining particle size, surface area and theoretical and experimental partition coefficient of drugs.
- Stability testing including different formulation and drug products are studied in terms of their stability in environmentally controlled chamber
- Development of analytical methods via using alternative or innovative analytical techniques for analyzing existing drugs/products and newly synthesized ones.

Research facilities

- Well-equipped pharmaceutical technology lab.
- Central Research lab (e.g. HPLC, FTIR Absorption Spectroscopy, Atomic Absorption Spectroscopy)

Publications

2019.


Conferences


2. Mosab Arafat, Cathrin Kirchhoefer, Momir Mikov, Muhammad Sarfraz, Raimar


5. **Mosab Arafat.** The application of nanotechnology on drug delivery systems. *Nanotechnology and Materials ScienceWorld Congress and Expo, 13th – 15th April 2015, Dubai, United Arab Emirates.*


7. **Mosab Arafat** The oral bioavailability of cefotaxime in nano-vesicles formulation after introduced to rats. *DUPHAT Conference, 10th – 12th March 2013, Dubai, United Arab Emirates.*