



Hatem Elmongy

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EDUCATION

- 2015-date** **Ph.D. Candidate, Analytical Chemistry**, Stockholm University, Stockholm, Sweden
- 2013** **M.Sc., Pharmaceutical Analytical Chemistry**, Alexandria University, Alexandria, Egypt.
Thesis topic “Determination of Certain Isomeric and Structurally Related Pharmaceutical Compounds Using Chemometrics”.
- 2009** **B.Sc., Pharmaceutical Sciences**, Alexandria University, Alexandria, Egypt
Graduation with Distinction Honour.

LANGUAGES

- **Arabic:** Native.
- **English:** Fluent (spoken, read & written).
- **Swedish:** limited work proficiency.

RESEARCH INTERESTS

- Analysis of drugs in biological samples (plasma and saliva) to evaluate therapeutic effects and drug safety.
- Utilizing HPLC-MS/MS and GC-MS/MS in bioanalysis of drugs and biomolecules.
- Chiral analysis of racemic drug mixtures using chiral chromatography.
- Investigation of clinical pharmacokinetics of chiral and doping drugs.
- Therapeutic drug monitoring.
- Development of new micro-extraction techniques based on molecularly imprinted polymers, nanotechnology and microextraction by packed sorbent.
- Analysis of cancer biomarkers in saliva using mass spectrometry.

RESEARCH EXPERIENCE

- 2015-date** **Doctoral Candidate**, Stockholm University, Stockholm, Sweden.
- Working on analysis of chiral drugs in human plasma and saliva.
 - Investigation of differential pharmacokinetics of chiral drugs in human.
 - Analysis of doping and illicit drugs in human saliva.
 - Development of microextraction techniques for drug extraction from bio fluids.

- 2013-2015** **Assistant Lecturer & Researcher**, Alexandria University, Alexandria, Egypt.
- Applying multivariate analytical methods to resolve overlapped chromatographic signals and spectrometric analysis of multicomponents.
 - Performing analysis of pharmaceutical compounds in plasma samples using HPLC-DAD.
 - Applying infra-red spectrometry to identify structurally related impurities in pharmaceuticals.
- 2010-2013** **Demonstrator & Master student**, Alexandria University, Alexandria, Egypt.
- Determination of structurally related pharmaceutical compounds using UV-spectrophotometry and Infra-red spectrometry assisted by multivariate analysis software.
 - Separation and determination of chiral drugs in human plasma using chiral HPLC and diode array detection.
 - Assignment of chromatographic peak purity using chemometric methods of analysis.
- 2009-2010** **Diploma work (General master courses)**, Alexandria University, Alexandria, Egypt.
 Research assignments on analytical method development and method Validation.

TEACHING INTERESTS

- Bioanalytical chemistry.
- Liquid chromatography techniques.
- Mass spectrometry.
- Analytical method validation and quality control of pharmaceuticals.
- Statistics and biostatistics.
- Multivariate methods of analysis.

TEACHING EXPERIENCE

- 2015** **Main supervisor, Analysis of Chiral Drugs in Plasma**, Summer program, Stockholm University, Sweden.
- 2013-2015** **Assistant Lecturer, Pharmaceutical Analytical Chemistry**, Damanhour University, Egypt.
Assistant Lecturer, General Chemistry, Damanhour University, Egypt.
- 2009-2013** **Teaching Assistant, Pharmaceutical Analytical Chemistry**, Alexandria University, Egypt.
Teaching Assistant, Physical and Inorganic Chemistry, Alexandria University, Egypt.
Teaching Assistant, Analytical Chemistry, Damanhour University, Egypt.

PUBLICATIONS

1. **Saliva as an alternative specimen to plasma for drug bioanalysis. A review**, Hatem Elmongy, Mohamed Abdel-Rehim, TrAC Trends in Analytical Chemistry, (2016), DOI: 10.1016/j.trac.2016.07.010.

2. **Determination of metoprolol enantiomers in human plasma and saliva samples utilizing microextraction by packed sorbent and liquid chromatography - tandem mass spectrometry**, Hatem Elmongy, Hytham Ahmed, Abdel-Aziz Wahbi, Ahmad Amini, Anders Colmsjo, Mohamed Abdel-Rehim, *Biomedical Chromatography*, (2016), DOI: 10.1002/bmc.368.
3. **Online post-column solvent assisted and direct solvent-assisted electrospray ionization for chiral analysis of propranolol enantiomers in plasma samples**, Hatem Elmongy, Hytham Ahmed, Abdel-Aziz Wahbi, Hirsh Koyi, Mohamed Abdel-Rehim, *Journal of Chromatography A*, 1418 (2015) 110–118.
4. **A new concept for testing chromatographic peak purity; Application to the peak purity determination of the main ingredients in tea extracts**, Marwa S. Moneeb, Ismail I. Hewala, Hatem A. Elmongy, Abdel-Aziz M. Wahbi, , *Asian journal of chemistry*, 27 (2015) 3831-3837.
5. **Simultaneous spectrophotometric determination of the three structural isomers of cresol using multivariate regression methods**, Marwa S. Moneeb, Ismail I. Hewala, Hatem A. Elmongy, Abdel-Aziz M. Wahbi, *Pakistan journal of pharmaceutical sciences*, 28 (2015) 1323-1330.
6. **Enantioselective HPLC-DAD method for the determination of etodolac enantiomers in tablets, human plasma and application to comparative pharmacokinetic study of both enantiomers after a single oral dose to twelve healthy volunteers**, Ismail I. Hewala, Marwa S. Moneeb, Hatem A. Elmongy, Abdel-Aziz M. Wahbi, *Talanta*, 130 (2014) 506-517.

CONFERENCES

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| June, 2016 | 23rd Analytical Days of the Analytical Division of the Swedish Chemical Society (Analysdagarna) , Umeå, Sweden.
Poster presentation “Online post-column solvent assisted and direct solvent-assisted electrospray ionization for chiral analysis utilizing LC-MS/MS”. |
| May/June, 2016 | 40th International Symposium on Capillary Chromatography (ISCC) & 13th GCxGC Symposium , Riva del Garda, Italy.
Poster presentation “Determination of metoprolol enantiomers in human plasma and saliva samples utilizing microextraction by packed sorbent and liquid chromatography–tandem mass spectrometry”. |
| January, 2016 | 7th symposium on Pharmaceutical Profiling in Drug Discovery and Development , Uppsala, Sweden
Poster presentation “Enantioselective HPLC-DAD method for the determination of etodolac enantiomers in tablets, human plasma and application to comparative pharmacokinetic study”. |
| June, 2014 | 10th international symposium on drug analysis and 25th international symposium on pharmaceutical and biomedical analysis , Liege, Belgium.
Poster presentation “A new concept for testing chromatographic peak purity; Application to determination of the main ingredients in tea extracts”. |

April, 2014

BioVision, Alexandria, Egypt

Poster presentation “Chemometric determination of ephedrine-HCL impurity in pseudoephedrine-HCL raw material using FT-IR”.

AWARDS

2016

Poster award for excellent presentation of particularly significant innovative analytical research, sponsored by Analytical and Bioanalytical Chemistry (Springer), Analysdagarna, Sweden.

2014

Best podium presentation “Chemometric multivariate regression methods in chiral analysis”, Pharmaceutical Analytical Chemistry Department, Alexandria University, Egypt.

PROFESSIONAL MEMBERSHIPS

- Member at the Swedish Chemical Society.
- Member at the Swedish Association of University Teachers and Researchers (SULF).