

Mostafa Mohamed Baker Darwish Omar



EDUCATION INFORMATION

03/2016 – 01/2019 PhD in Pharmaceutical Chemistry

Faculty of Pharmacy, Alexandria University, Alexandria (Egypt)

CGPA: (3.777) / 18 hrs

10/2011 – 12/2015 Master Degree in Pharmaceutical Chemistry

Faculty of Pharmacy, Alexandria University, Alexandria (Egypt)

CGPA: (3.493) / 25 hrs

09/2003 – 07/2008 Bachelor of Pharmacy

Faculty of Pharmacy, Alexandria University, Alexandria (Egypt)

Grade: Excellent with honor (87.95%)

RRESEARCH INTEREST

Being an R&D member in pharmaceutical industry for more than 15 years, I have been working on the development of reliable solutions for analytical problems within industrial sector. I have the opportunity to develop dozens of analytical methods included several analytical techniques such as: spectrophotometry, chromatography (HPLC & GC) and potentiometry. One of the main areas I focused is the employment of HPLC for resolving multicomponent mixtures and development of simple yet affordable new methods that can analyze different analytes in single run that reduces both cost and time of analysis. During my work in stability department, I have shared in conduction of hundreds of stability studies that cover different pharmaceutical dosage forms to ensure safety and efficacy of our products. Stability testing can be considered as a prerequisite for any pharmaceutical product before getting marketing authorization. During my work I have developed a relational data base that controls all stages of stability testing of pharmaceutical products involving sampling, storing, testing, evaluation and reporting. Based on generated data several critical decisions regarding status of different drug products were taken including shelf-life reduction, change in storage condition, change in manufacturing procedures, packing material modification, formulation modification or even product cancellation.

TEACHING

- 02/2024 – Present Lecturer of Quality Management Systems 3 PIT 401 (Level 2)**
Borg Al Arab Technological University, Alexandria (Egypt)
- 10/2023 – 01/2024 Lecturer of Quality Control PIT 306 (Level 2)**
Borg Al Arab Technological University, Alexandria (Egypt)
- 10/2022 – 01/2023 Lecturer of Analytical Chemistry PMC 215 (Level 2)**
E-JUST, Alexandria (Egypt)
- 10/2021 – 01/2022 Lecturer of Analytical Chemistry PMC 111 (Level 1)**
E-JUST, Alexandria (Egypt)

SCIENTIFIC WORK SHOP TRAINING

- Summer Training Program for E-JUST Students, Pharco Pharmaceuticals (2023).
- Summer Training Program for E-JUST Students, Pharco Pharmaceuticals (2022).
- Regulatory Affairs & Stability File Preparation, Pharco Pharmaceuticals (2022).
- Stability Testing of Finished Pharmaceutical Products, Pharco Pharmaceuticals (2022).
- Data Integrity Compliance & Audit Trail Review, Pharco Pharmaceuticals (2021).
- HPLC Method development & Validation, Pharco Pharmaceuticals (2020).
- Specifications of Drug Substances & Drug Products, Pharco Pharmaceuticals (2019).
- Training Program for Zewail City Students, Pharco Pharmaceuticals (2018).

WORK EXPERIENCE

- 11/2023 – Present Research Assistance**
E-JUST, Alexandria (Egypt)
- 03/2021 – Present Stability Department Manager, R&D sector**
Pharco Pharmaceuticals, Alexandria (Egypt)
- 01/2014 – 02/2021 Head of Stability Department, R&D sector**
Pharco Pharmaceuticals, Alexandria (Egypt)
- 01/2017 – Present Member of Training Team**
Pharco Pharmaceuticals, Alexandria (Egypt)
- 01/2015 – 01/2021 Member of Computer System Validation Team**
Pharco Pharmaceuticals, Alexandria (Egypt)
- 01/2009 – 12/2013 Analyst in Methodology Department, R&D sector**
Pharco Pharmaceuticals, Alexandria (Egypt)
- 07/2008 – 12/2008 Working in Community Pharmacy**
Alexandria (Egypt)

PERSONAL SKILLS

Mother tongue(s) Arabic

Other Languages(s) English, ILETS Brand Score 6 - French, General Knowledge

Computer Skills ICDL Professional User

Driving License B

PUBLICATIONS

<https://scholar.google.com.eg/citations?user=F6vwPmAAAAAJ&hl=en>

Citations	h-index	i10-index
195	8	7

- **MM Baker**, DS El-Kafrawy, MM Abdel-Khalek, TS Belal. Validated spectrophotometric determination of maduramicin ammonium using three charge transfer complexation reactions, **Annales Pharmaceutiques Françaises**, 78, 388–397(2020).
- **MM Baker**, DS El-Kafrawy, MM Abdel-Khalek, TS Belal. A Highly Selective Stability-Indicating HPLC Method for Simultaneous Estimation of Sertaconazole with two Co-formulated Preservatives in Pharmaceutical Dosage Forms, **Chromatographia**, (2019).
- **MM Baker**, DS El-Kafrawy, MM Abdel-Khalek, TS Belal. Comprehensive stability-indicating high-performance liquid chromatography coupled with diode array detection method for simultaneous determination of amprolium hydrochloride and ethopabate in powder dosage form for veterinary use, **Journal of Separation Science** (2019).
- **MM Baker**, SF Hammad, TS Belal. Development and validation of a versatile HPLC-DAD method for simultaneous determination of the antiviral drugs daclatasvir, ledipasvir, sofosbuvir and ribavirin in presence of seven potential impurities. Application to assay of dosage forms and dissolution studies, **Drug Development and Industrial Pharmacy**, (2019).
- **MM Baker**, TS Belal. Validated HPLC/DAD Method for Simultaneous Determination of Six Selected Drugs Used in the Treatment of Glaucoma, **Journal of AOAC International**, 101(4), 993-1000, (2018).
- **MM Baker**, DS El-Kafrawy, MS Mahrous, TS Belal. Validated spectrophotometric and chromatographic methods for analysis of the recently approved hepatitis C antiviral combination ledipasvir and sofosbuvir, **Annales Pharmaceutiques Françaises**, 76, 16-31, (2018).

- **MM Baker**, DS El-Kafrawy, MS Mahrous, TS Belal. Validated stability-indicating HPLC-DAD method for determination of the recently approved hepatitis C antiviral agent daclatasvir, **Annales Pharmaceutiques Françaises**, 75, 176-184, (2017).
- **MM Baker**, DS El-Kafrawy, MS Mahrous, TS Belal. Validated Spectrophotometric Determination of Brinzolamide Using Two Charge Transfer Complexation Reactions, **Research Journal of Pharmaceutical, Biological and Chemical Sciences**, 7(5), 2171-2179, (2016).
- **MM Baker**, DS El-Kafrawy, MS Mahrous, TS Belal. High-performance liquid chromatography with diode array detection method for the simultaneous determination of seven selected phosphodiesterase-5 inhibitors and serotonin reuptake inhibitors used as male sexual enhancer, **Journal of Separation Science**, 39, 1656-1665, (2016).
- **MM Baker**, DS El-Kafrawy, MS Mahrous, TS Belal. A validated stability-indicating HPLC-DAD method for simultaneous determination of econazole nitrate, triamcinolone acetonide, benzoic acid and butylated hydroxyanisole in cream dosage form, **Analytical Methods**, 8(10), 2185-2200, (2016).
- **MM Baker**, DS El-Kafrawy, MS Mahrous, TS Belal. Validated stability-indicating HPLC-DAD method for determination of the phosphodiesterase (PDE-4) inhibitor roflumilast, **Bulletin of Faculty of Pharmacy**, Cairo University, 52, 79-89, (2014).

POSTER PRESENTATIONS

- Presenting a poster abstract during the **Biovision Alexandria 2018 Poster Session** Organized by The Center for Special Studies and Programs (CSSP), Bibliotheca Alexandrina held on 20 - 22 April 2018.
- Presenting a poster abstract during the **'Pharmaceutical Chemistry' Track for the conference Pharma Europe 2017** held during June 26-28, 2017 at Madrid, Spain.
- Presenting a poster abstract during the **4th FUE International Conference of Pharmaceutical Sciences**, held on 31st January – February 2nd 2017, Cairo, Egypt.
- Presenting a poster abstract during the **International Conference on Chemical Sciences & Applications** held on 6 - 9 August 2016, Alexandria, Egypt.
- Presenting a poster abstract during the **Biovision Alexandria 2016 Poster Session** Organized by The Center for Special Studies and Programs (CSSP), Bibliotheca Alexandrina held on 12 –14 April 2016.

- Presenting a poster abstract during the **first PUA International Conference on “Advances in Pharmaceutical Sciences”** held on October 27 –29, 2015 at Pharos University in Alexandria, Egypt.

ON JOB TRAINING

- USP Education; Impurities in Drug Products and Drug Substances -A USP Approach held on 4 -5 November 2020, Alexandria, Egypt.
- Validation, Verification and Transfer of Analytical Procedures USP Education held on 18th of March 2019, Cairo, Egypt.
- Stability Study of Pharmaceutical Products (Temperature Cycling &Temperature Excursions Studies) Workshop Organized by Naratech Pharmaceutical Consultancy during 9th - 10th January 2019, Cairo, Egypt.
- Quality by Design, Scale Down Modeling & Process Analytical Technology held on 17thJuly 2017 at Dubai, United Arab Emirates.
- Personal & Interpersonal Effectiveness organized by Pharco Pharmaceuticals, Alexandria, Egypt from 26/09/2016 to 28/09/2016.
- Research Essentials, Advanced Technical Writing, and the Art of Debated Workshop organized by Center for Special Studies and P96rograms (CSSP), Bibliotheca Alexandrina from 28/12/2015 to 29/12/2015.
- Time Management from 24/12/2015 to 24/12/2015.
- Change Control from 24/11/2015 to 24/11/2015.
- Documentation System, Document and Record Control from 10/02/2015 to 10/02/2015.
- Statistics & Statistical Process Control by Using Minitab and SPSS from 29/08/2015 to 02/09/2015.
- Towards fast acceptance for your stability file (Regulations and Technicalities) work shop organized by Center of Applied Research and Advanced Studies (CARAS), Faculty of pharmacy Cairo University.
- MSDS from 09/02/2015 to 09/02/2015.
- Computer Policy from 24/01/2015 to 24/01/2015.
- Charisma Good Manufacturing Practice Professional Package (CGM3P) from 07/01/2015 to 17/05/2015.
- Computer System Validation from 21/10/2014 to 21/10/2014.
- Computer System Validation from 28/07/2013 to 31/07/2013.

- Determination of the Expiration Date of Chemical Solutions from 19/07/2012 to 19/07/2012.
- Atomic Absorption Spectrophotometric Analysis from 23/11/2010 to 23/11/2010.
- Sterile Area & Media Fill from 13/07/2010 to 14/07/2010.
- GMP Related to inspection of Sterile Area from 20/06/2010 to 20/06/2010.
- Current Good Manufacturing Practice Training Course from 26/04/2010 to 29/04/2010.
- Chirality: Analysis and Emerging Issues from 02/03/2010 to 03/03/2010.
- cGMP from 10/02/2010 to 10/02/2010.
- Calibration Methods of Spectrophotometers; Evaluation of their expended uncertainty and their metrological specification from 06/12/2009 to 10/12/2009.
- Different Pharmaceutical Dosage Forms from 26/10/2009 to 26/10/2009.
- Linux Operating System (open office) from 09/08/2009 to 12/08/2009.
- Sampling Operations from 06/07/2009 to 06/07/2009.
- Stability from 29/06/2009 to 29/06/2009.
- GMP, ISO 9001, ISO 14001, OHSAS, Hygiene classes, cleaning & sanitation from 07/03/2009 to 12/03/2009.
- Awareness of fire fighter from 17/01/2009 to 17/01/2009.
- GMP-Induction training from 12/01/2009 to 12/01/2009.

UNPUBLISHED WORK

- Method development & Validation of a Stability indicating HPLC Method for simultaneous determination of a tertiary mixture of phenylephrine, chlorpheniramine maleate, methyl paraben and propyl paraben in Sine-up® syrup.
- Method development & Validation of a Stability indicating HPLC Method for simultaneous determination of a binary mixture of Brinzoamide & Timolol maleate in Brintimo® eye drops.
- Method development & Validation of a Stability indicating HPLC Method for simultaneous determination of a quaternary mixture of Chlorpheniramine maleate, Dexamethasone, Methyl Paraben & Propyl Paraben in Dexaphen® Syrup.
- Method development & Validation of a Stability indicating HPLC Method for simultaneous determination of a quaternary mixture of Naphazoline HCl, Chlorpheniramine maleate, Methyl Paraben & Propyl Paraben in Rinosin® nasal gel.
- Method development & Validation of a Stability indicating HPLC Method for simultaneous determination of a ternary mixture of Theophylline, Guaiphenesin & Ambroxol HCl in Farcosolvin® Soft gelatin capsules.

- Method development & Validation of a Stability indicating HPLC Method for simultaneous determination of a ternary mixture of Benzocaine, Clove & Butylated hydroxy Anisole in Dentocalm® Ointment.
- Method development & Validation of a Stability indicating HPLC Method for simultaneous determination of a binary mixture of Vitamin A & Vitamin E in Vitamin A & E® Capsules.
- Method development & Validation of a Stability indicating HPLC Method for simultaneous determination of a binary mixture of Benzoic acid & BHT in Baby rest® Drops.
- Method development & Validation of a Stability indicating HPLC Method for simultaneous determination of a binary mixture of Dorzoamide hydrochloride & Timolol maleate in Dorzolamol® eye drops.
- Method development & Validation of a Stability indicating HPLC Method for determination of Total benzoate content in Otolalm® ear drops.
- Method development & Validation of a Stability indicating HPLC Method for determination of Levofloxacin in Levotavin® Film Coated Tablets.

HONOURS AND AWARDS

- Certificate of Merit from the Faculty of Pharmacy-Alexandria University.
- Certificate of Merit from the Alex Syndicate of Pharmacy.
- Certificate of Merit from the Egyptian Medical Syndicate.
- Certificate of Merit from the Egyptian society for the care of the families of the armed forces.
- Certificate of Merit from Smouha Sporting Club.

REFERENCES

- **Professor Dr. Tarek Saied Fathalla Belal**
Professor of Analytical Chemistry.
Faculty of Pharmacy - Alexandria University. tbelaleg@gmail.com
- **Professor Dr. Magdi Mohamed Abdel-Khalek**
Professor of Pharmaceutical Chemistry.
Faculty of Pharmacy - Alexandria University.
- **Professor Dr. Hoda Mohamed Gamal Eldeen Daabeas**
Professor of Pharmaceutical Chemistry.
Faculty of Pharmacy - Damanhour University.
- **Associate Professor Dr. Dina Salah Ateya El-Kafrawy**
Associate Professor of Pharmaceutical Chemistry.
Faculty of Pharmacy - University of Alexandria.