

## ***Curriculum Vitae***

**Name:** Tarek Saied Fathalla Belal, B. Pharm., M. Pharm., Ph.D.

**Current Position:** Professor in Department of Pharmaceutical Analytical Chemistry,  
Faculty of Pharmacy, Alexandria University, Egypt.

**Birth Date and Place:** March 27<sup>th</sup>, 1972, Alexandria, Egypt.

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### **Qualifications**

- 1- Bachelor in pharmaceutical sciences, June 1994, Faculty of Pharmacy, Alexandria University, Egypt with general grade “Excellent” Distinction Honors.
- 2- Master of pharmaceutical sciences (Pharmaceutical analytical chemistry) in January 2002, Faculty of Pharmacy, Alexandria University, Egypt.
- 3- PhD in pharmaceutical sciences (Pharmaceutical analytical chemistry) in September 2005, Faculty of Pharmacy, Alexandria University, Egypt.

### **Professional Career**

- 1- Demonstrator, Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Alexandria University (February 1996 – March 2002).

- 2- Assistant Lecturer, Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Alexandria University (March 2002 – October 2005).
- 3- Assistant Professor, Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Alexandria University (October 2005 – October 2010).
- 4- Post doctor research fellow in Department of Pharmacal Sciences, Harrison School of Pharmacy, Auburn University, Alabama, USA by a grant awarded by the Egyptian Ministry of Higher Education – Cultural Affairs and Missions Sector (October 2007 – July 2008).
- 5- Associate Professor, Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Alexandria University (October 2010 – January 2016).
- 6- Visiting research scholar in Department of Drug Discovery and Development, Harrison School of Pharmacy, Auburn University, Alabama, USA by a grant awarded by the Egyptian Ministry of Higher Education – Cultural Affairs and Missions Sector (June 2014 – December 2014).
- 7- Professor, Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Alexandria University (since January 2016).

### **Teaching Experiences**

- 1- Teaching of practical courses in Pharmaceutical Analytical Chemistry to pharmacy students including qualitative and quantitative analysis of organic and inorganic compounds and instrumental analysis.
- 2- Teaching of Qualitative Analytical Chemistry course to 1<sup>st</sup> year pharmacy students (Alexandria University and Damanhour University).
- 3- Teaching of Quantitative Analytical Chemistry course to 2<sup>nd</sup> year pharmacy students (Alexandria University).
- 4- Teaching of Physical and Inorganic Chemistry course (PC 101) to 1<sup>st</sup> year clinical pharmacy students (Alexandria University).
- 5- Teaching of Instrumental Analysis course (PC 407) to 2<sup>nd</sup> year clinical pharmacy students (Alexandria University).
- 6- Teaching of Physical Chemistry (PHR 121), General Chemistry (PHR 122) and Basic Inorganic Chemistry (PHR 125) courses to 1<sup>st</sup> year pharmacy students (Pharos University in Alexandria).

- 7- Teaching of Analytical Chemistry I course (PHR 223) to 2<sup>nd</sup> year pharmacy students (Pharos University in Alexandria).
- 8- Teaching of Physical and Inorganic Chemistry (PPS 112) and Basic Analytical Techniques (PPS 116) courses to 1<sup>st</sup> year pharmacy students (Arab Academy for Science, Technology and Maritime Transport (AASTMT), Alexandria, Egypt).
- 9- Teaching of Advanced Analytical Techniques course (PPS 212) to 2<sup>nd</sup> year pharmacy students (Arab Academy for Science, Technology and Maritime Transport (AASTMT), Alexandria, Egypt).
- 10- Teaching of Chemistry of Cosmetic Products course to the students of Analysis of Cosmetics and Nutripharmaceuticals Diploma.
- 11- Teaching of Spectroscopy (0900703), Quality control of pharmaceutical products and validation of analytical methods (0907704) and Advanced chromatographic methods of analysis II courses (0907801) to post graduate pharmacy students (Alexandria University).

### **Other Experiences and Activities**

- 1- Operating modern instruments and conducting research on a variety of pharmaceutical compounds in different matrices using different analytical techniques including UV/VIS Spectrophotometry, Spectrofluorimetry, FT-IR, HPLC, HPTLC, GC-MS, GC-IRD and Electrochemical techniques.
- 2- Reviewing manuscripts for more than 40 international scientific journals specialized in analytical chemistry and its applications. Examples of these journals are:
  - Journal of AOAC International
  - Journal of Chromatographic Science
  - Analytical Chemistry
  - Talanta
  - Journal of Pharmaceutical and Biomedical Analysis
  - Journal of Pharmaceutical Analysis
  - Journal of Liquid Chromatography & Related Technologies
  - Luminescence
  - Microchemical Journal
  - Analytical Methods

- Journal of Fluorescence
- Journal of Separation Science
- Journal of Chromatography B
- Spectrochimica Acta A

3- Supervision of Master and PhD pharmacy students:

- Mohammed E. A. Ibrahim (Master)

Thesis entitled “Analysis of some selected drugs acting on the vascular system”, Faculty of Pharmacy, Alexandria University.

Degree awarded: January 2009.

- Mohamed Mahmoud Ahmed Hamdy (Master)

Thesis entitled “Analytical study of some heterocyclic nitrogenous compounds of pharmaceutical interest”, Faculty of Pharmacy, Alexandria University.

Degree awarded: January 2013.

- Ahmed Adel Abdel-Aziz Mahgoub (Master)

Thesis entitled “Analytical study of some selected antisecretory drugs”, Faculty of Pharmacy, Alexandria University.

Degree awarded: June 2013.

- Sohila Mohamed Mahmoud Elonsy Amin (Master)

Thesis entitled: “Analysis of some selected drugs used in the treatment and management of cardiovascular disorders”, Faculty of Pharmacy, Alexandria University.

Degree awarded: July 2013.

- Karin Magdi Guirguis Morkos (Master)

Thesis entitled: “Analysis of Some Selected Pharmaceutical Compounds Used in the Management of Inflammation and Musculoskeletal Disorders”, Faculty of Pharmacy, Alexandria University.

Degree awarded: July 2013.

- Mostafa Mohamed Baker Darwish (Master)

Thesis entitled: “Quantitative Determination of Selected Drugs Acting as Enzyme Inhibitors”, Faculty of Pharmacy, Alexandria University.

Degree awarded: January 2016.

- Amira Hany El-Saeed Ibrahim Abo-Gharam (Master)

Thesis entitled: “Analytical Study of Some Compounds of Pharmaceutical Interest Possessing Acidic Function(s)”, Faculty of Pharmacy, Alexandria University.

Degree awarded: January 2016.

- Hadeel Adel Ahmed Khalil (Master)

Thesis entitled: “Analysis and Study of drug-drug interactions of some antifungal drugs used in the treatment regimen of cancer”, Faculty of Pharmacy, Alexandria University.

Degree awarded: February 2017.

- Karin Magdi Guirguis Morkos (PhD)

Thesis entitled: “Estimation of Some Active Pharmaceutical Ingredients Used for Their Anti-inflammatory or Muscle Relaxant Activity”, Faculty of Pharmacy, Alexandria University.

Degree awarded: November 2018.

- Ahmed Gamal Abd Elhamid Mohamed (Master)

Thesis entitled: “Analytical studies on some drugs containing one or more heterocyclic ring(s)”, Faculty of Pharmacy, Alexandria University.

Degree awarded: February 2019.

- Mostafa Mohamed Baker Darwish (PhD)

Thesis entitled: “Quantitative Determination of Some Selected Antimicrobial Agents”, Faculty of Pharmacy, Alexandria University.

Degree awarded: February 2019.

- Sohila Mohamed Mahmoud Elonsy Amin (PhD)

Thesis entitled: “Quantitative Determination of Some Drugs Used for the Treatment of Cardiovascular Diseases and Associated Disorders”, Faculty of Pharmacy, Alexandria University.

Degree awarded: July 2019.

- Mai Medhat Abd El-Moniem Soliman El-Naggar (Master)

Thesis entitled: “Analytical Studies on Some Selected Antibiotics”, Faculty of Pharmacy, Alexandria University.

Degree awarded: September 2019.

- Alaa Magdy El-Gharbawy (Master)

Thesis entitled: “Development and validation of a quantitative method for determination of nicotine and its degradation products”, Faculty of Science, Alexandria University.

Degree awarded: April 2020.

- Yousef Shaaban Abdullah Hassan El-Shamy (Master)

Thesis entitled: “Analytical study of some selected drugs used in the management of central nervous system diseases”, Faculty of Pharmacy, Damanhour University.

Degree awarded: July 2020.

- Amira Hany El-Saeed Ibrahim Abo-Gharam (PhD)

Thesis entitled: “Analytical Study of Some Compounds of Pharmaceutical Interest Possessing Acidic Groups or Their Derivatives”, Faculty of Pharmacy, Alexandria University.

Started September 2016, In progress.

- Hadil Mamdouh Aly Ahmed Elbardisy (PhD)

Thesis entitled: “The use of different analytical methods for the analysis of drugs of abuse”, Faculty of Pharmacy, Damanhour University.

Started May 2017, In progress.

- Haydi Ahmed Saher Atteya Mohamed ElBordiny (PhD)

Thesis entitled: “Analytical Chemical Study of Selected Pharmaceutical Compounds acting as Enzyme Inhibitors”, Faculty of Pharmacy, Damanhour University.

Started July 2018, In progress.

- Hadeel Adel Ahmed Khalil (PhD)

Thesis entitled: “Analytical studies on some pharmaceutical compounds containing acidic function(s)”, Faculty of Pharmacy, Alexandria University.

Started November 2018, In progress.

### **Training Courses and Workshops**

- 1- High Performance Liquid Chromatography Seminar & Workshop Series, May 18-21, 2003, Department of pharmaceutical analytical chemistry, Faculty of Pharmacy, Alexandria University.

- 2- Workshop for Analytical Chemists in Pharmaceutical Industry, HPLC and CE Seminar & Workshop Series, August 13-16, 2005, organized by the (DAQC) Project, Faculty of Pharmacy, Alexandria University.
- 3- Attending different educational courses carried by the Faculty and Leadership Development Center (FLDC), Alexandria University:
  - Effective teaching (T1): 23-28/4/2005.
  - Thinking skills (P1): 7-10/5/2005.
  - Research methodology (T4): 9-12/7/2005.
  - Teaching evaluation (T5): 20-22/5/2006.
  - Effective presentation: 2-4/9/2008.
  - University administration: 18-20/10/2008.
  - Preparation of research papers for publication in international journals: 7-9/2/2009.
  - Credit hours system: 25-27/7/2009.
  - Research ethics: 11-13/8/2009.
  - Quality standards in education: 15-16/12/2014.
  - University legal and financial aspects: 22-23/12/2014.
  - Research team management: 23-24/3/2015.
  - Ethical conduct and code of ethics: 6-7/4/2015.
  - Strategic planning: 18-19/5/2015.
  - Use of technology in teaching: 27-28/5/2015.
- 4- Laboratory Performance and Quality Assurance Course and Workshop, June 27-29, 2009, held at the Medical Technology Center, Medical Research Institute, Alexandria University.
- 5- Non Conventional Methods for Optimization in Experimental Studies Course, February 16, 2010, organized by the Science Park, Faculty of Pharmacy, Alexandria University.
- 6- Basics and Applications of High Performance Liquid and Gas Chromatography (HPLC and GC) in Medical Biochemistry Course and Workshop, April 12-15, 2010, held at the Medical Technology Center, Medical Research Institute, Alexandria University.
- 7- Referenes and Data Management Using Endnote-X4 Course, May 21-22, 2011, held at the Medical Technology Center, Medical Research Institute, Alexandria University.
- 8- Basic Statistical Techniques Using SPSS Course, February 15-16, 2012, held at the Medical Technology Center, Medical Research Institute, Alexandria University.

## Conferences

- 1- The Third Annual Meeting of the Association of Colleges of Pharmacy in the Arab World held in Tanta, Egypt on October 14–16, 1999.  
Poster presentation entitled: “*Stability indicating spectrofluorimetric assays for simultaneous determination of piroxicam (or tenoxicam) and its degradation product, 2-aminopyridine*”.  
Suzy M. Sabry, Mohamed H. Abdel-Hay, Magda H. Barary and **Tarek S. Belal**.
- 2- The Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (Pittcon 2009 Conference and Exposition) held in Chicago, Illinois, USA on March 8–13, 2009.
  - Oral presentation entitled: “*GC-IRD Identification of Isomeric Phenethylamines of Mass Spectral Equivalence*”. Tamer Awad, **Tarek Belal**, Jack DeRuiter and C. Randall Clark.
  - Poster presentation entitled: “*GC-MS Studies on Side Chain Regioisomers Related to the Substituted Methylenedioxy-phenethylamines MDEA, MDMA and MBDB*”. Tamer Awad, Hadir Maher, **Tarek Belal**, Jack DeRuiter and C. Randall Clark.
- 3- Eastern Analytical Symposium and Exposition (EAS 2009) held in Somerset, New Jersey, USA on November 16–19, 2009.  
Poster presentation entitled: “*HPLC-DAD stability indicating determination of nitrofurazone and lidocaine hydrochloride in their combined topical dosage form*”. Rasha A. Shaalan and **Tarek S. Belal**.
- 4- The Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (Pittcon 2011 Conference and Exposition) held in Atlanta, Georgia, USA on March 13–18, 2011.  
Two poster presentations entitled:
  - “*Gradient HPLC-DAD Determination of the Antihypertensive Mixture of Amlodipine Besylate, Valsartan and Hydrochlorothiazide in Their Combined Pharmaceutical Tablets*”. **Tarek S. Belal** and Rasha A. Shaalan.
  - “*Gradient HPLC-DAD Stability Indicating Determination of Miconazole Nitrate and Lidocaine Hydrochloride in Their Combined Oral Gel Dosage Form*”. **Tarek S. Belal** and Rim S. Haggag.
- 5- TWAS/BVA.NXT 2012 event and BioVision Alexandria 2012 Conference organized by the Bibliotheca Alexandrina, Alexandria, Egypt on April 21–25, 2012.
- 6- The 38<sup>th</sup> International Symposium on High Performance Liquid Phase Separations and Related Techniques (HPLC 2012) held in Anaheim, California, USA on June 16–21, 2012.



Poster presentation entitled: “*Gradient HPLC-DAD Determination of Two Pharmaceutical Mixtures Containing the Antihistaminic Drug Ebastine*”. Rim Haggag and **Tarek Belal**.

7- The Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (Pittcon 2013 Conference and Exposition) held in Philadelphia, Pennsylvania, USA on March 17–21, 2013.

Poster presentation entitled: “*Validated Stability Indicating HPLC-DAD Method for the Determination of Pentoxifyverine Citrate. Application to Degradation Kinetics and Assay of Syrup Dosage Form*”. **Tarek S. Belal** and Dina A. Gawad.

8- Eastern Analytical Symposium and Exposition (EAS 2013) held in Somerset, New Jersey, USA on November 18–20, 2013.

Two poster presentations entitled:

- “*Development, Validation and Application of a New HPTLC Method for the Simultaneous Determination of Alfuzosin, Terazosin, Prazosin, Doxazosin and Finasteride in Pharmaceutical Formulations*”.

- “*Spectrofluorimetric Determination of Two Pharmaceutical Mixtures Containing the Antihypertensive Drug Amlodipine Besylate together with either Candesartan Cilexetil or Telmisartan*”.

Mona M. Khamis, Hoda G. Daabees, Mohamed S. Mahrous, Magdi M. Abdel-Khalek and **Tarek S. Belal**.

9- Dubai International Pharmaceuticals and Technologies Conference and Exhibition (DUPHAT 2014) held in Dubai, UAE on March 10–12, 2014.

Poster presentation entitled: “*Development of Two Novel HPLC-DAD and UHPLC-UV Assays for the Determination of Posaconazole in Bulk Powder and Suspension Dosage Form*”. Dalia A. Hamdy and **Tarek S. Belal**.

10- BioVision Alexandria 2014 Conference organized by the Bibliotheca Alexandrina, Alexandria, Egypt on April 7–9, 2014.

Two poster presentations entitled:

- “*HPLC-DAD and HPTLC Methods for Simultaneous Determination of Carvedilol and Hydrochlorothiazide*”. Sohila M. Elonsy, **Tarek S. Belal**, Rasha A. Shaalan and Fawzy A. El Yazbi.

- *“High Performance Liquid Chromatographic Determination of the Ternary Mixture of Caffeine, Dipyrone and Drotaverine Hydrochloride in Tablets Dosage Form”*. Mohamed M.A. Hamdy, **Tarek S. Belal**, Essam F. Khamis and Fawzy A. El Yazbi.
- 11- The 66<sup>th</sup> Southeastern Regional Meeting of the American Chemical Society (ACS) held in Nashville, Tennessee, USA on October 16–19, 2014.  
Oral presentation entitled: *“Chromatographic and mass spectral studies on alkyl-acylindoles: Regioisomeric synthetic cannabinoids”*. C. Randall Clark, Karim Abdel-Hay, Jack DeRuiter, Forrest Smith, **Tarek Belal** and Amber Thaxton.
- 12- Eastern Analytical Symposium and Exposition (EAS 2014) held in Somerset, New Jersey, USA on November 17–19, 2014.  
Poster presentation entitled: *“Analytical and Synthetic Studies on Substituted 1-n-Pentyl-3-Benzoylindoles: Isomeric Synthetic Cannabinoids”*. Karim M. Abdel-Hay, Jack DeRuiter, Forrest Smith, **Tarek S. Belal** and C. Randall Clark.
- 13- 3<sup>rd</sup> FUE International Conference of Pharmaceutical Sciences (3<sup>rd</sup> FUE-ICPS) held in Cairo, Egypt on February 9–11, 2015.  
Poster presentation entitled: *“Validated HPTLC Method for Determination of Posaconazole in Bulk Powder and Suspension Dosage Form”*. Hadeel A. Khalil, Ahmed F. El-Yazbi, Dalia A. Hamdy and **Tarek S. Belal**.
- 14- The Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (Pittcon 2015 Conference and Exposition) held in New Orleans, Louisiana, USA on March 8–12, 2015.  
Two poster presentations entitled:  
- *“Selective Stability-Indicating Determination of Dimenhydrinate in Presence of Six of its Related Substances and Potential Impurities Using a Direct GC-MS Method”*. **Tarek S. Belal**, Karim M. Abdel-Hay and C. Randall Clark.  
- *“Analytical Studies on 1-n-pentyl-naphthoylindoles: Regioisomeric Compounds Related to the Synthetic Cannabinoids”*. Amber Thaxton, **Tarek S. Belal**, Forrest Smith, Jack DeRuiter, Karim M. Abdel-Hay and C. Randall Clark.
- 15- Canadian Society for Pharmaceutical Sciences Conference (CSPS 2015) held in Toronto, Ontario, Canada on May 26–28, 2015.  
Poster presentation entitled: *“Development of a High Performance Liquid Chromatographic Assay for the Simultaneous Determination of Posaconazole and Vincristine in Rat Plasma”*.

*and Its Application in a Drug Interaction Study*". Hadeel A. Khalil, Ahmed F. El-Yazbi, Dalia A. Hamdy and **Tarek S. Belal**.

- 16- First PUA International Conference on Advances in Pharmaceutical Sciences (1<sup>st</sup> PUA-ICAPS) organized by Pharos University in Alexandria, Alexandria, Egypt on October 27–29, 2015.

Three poster presentations entitled:

- *“Validated HPLC-DAD Method for Simultaneous Determination of Some Selected Phosphodiesterase-5 Inhibitors and Serotonin Reuptake Inhibitors Used as Male Sexual Enhancers”*. Mostafa M. Baker, **Tarek S. Belal**, Mohamed S. Mahrous, Hytham M. Ahmed and Hoda G. Daabees.

- *“Validated Stability-Indicating HPTLC and HPLC-DAD Methods for Determination of Loxoprofen Sodium”*. Amira H. Abo-Gharam, **Tarek S. Belal**, Dina S. El-Kafrawy, Mohamed S. Mahrous and Magdi M. Abdel-Khalek.

- *“Spectrofluorimetric Quantification of Nucleic Acids Photo-Damage Caused by Some Non-Steroid Anti-Inflammatory Drugs”*. Karin M. Guirguis, Amira F. El-Yazbi, **Tarek S. Belal** and Mona M. Bedair.

Oral presentation entitled: *“The Effect of Hyperlipidemia on the Pharmacokinetics of Posaconazole in Rat”*. Hadeel A. Khalil, **Tarek S. Belal**, Ahmed F. El-Yazbi and Dalia A. Hamdy.

- 17- The 7<sup>th</sup> European Academy of Forensic Science Conference (EAFS2015) held in Prague, Czech Republic on September 6–11, 2015.

Oral presentation entitled: *“GC-MS and GC-IR Studies on Regioisomeric Substituted Indoles”*. C. Randall Clark, Amber Thaxton, Jack DeRuiter, Forrest Smith, **Tarek S. Belal** and Karim Abdel-Hay.

- 18- The Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy (Pittcon 2016 Conference and Exposition) held in Atlanta, Georgia, USA on March 6–10, 2016.

Poster presentation entitled: *“Validated Capillary Zone Electrophoretic Method for Simultaneous Determination of Some Antihypertensive Drugs in Their Single-pill Combination Therapy”*. Fawzy A. El Yazbi, Hytham M. Ahmed, **Tarek S. Belal**, Rasha A. Shaalan and Sohaila M. Elonsy.

19- BioVision Alexandria 2016 Conference organized by the Bibliotheca Alexandrina, Alexandria, Egypt on April 12–14, 2016.

Three poster presentations entitled:

- “*Spectroscopic Differentiation and Chromatographic Separation of Six Indole Aldehyde Regioisomers*”. Karim M. Abdel-Hay, **Tarek S. Belal**, Amber Thaxton, Forrest Smith, Jack DeRuiter and C. Randall Clark.

- “*HPLC-DAD method for analysis of econazole, triamcinolone acetonide, benzoic acid and butylated hydroxyanisole*”. Mostafa M. Baker, **Tarek S. Belal**, Mohamed S. Mahrous, Hytham M. Ahmed and Hoda G. Daabees.

- “*Colorimetric and HPLC Assays of Ursodeoxycholic Acid Based on Reaction with 2-Nitrophenylhydrazine*”. Amira H. Abo-Gharam, Dina S. El-Kafrawy, **Tarek S. Belal**, Mohamed S. Mahrous and Magdi M. Abdel-Khalek.

20- International Conference on Chemical Sciences and Applications (ICCSA 2016) held in Alexandria, Egypt on August 6–9, 2016.

Poster presentation entitled: “*Validated Stability-Indicating HPLC-DAD Method for Determination of the Recently Approved Hepatitis C Antiviral Agent Daclatasvir*”. Mostafa M. Baker, **Tarek S. Belal**, Dina S. El-Kafrawy and Mohamed S. Mahrous.

21- 4<sup>th</sup> FUE International Conference of Pharmaceutical Sciences (4<sup>th</sup> FUE-ICPS) held in Cairo, Egypt on 31 January–2 February, 2017.

Poster presentation entitled: “*Validated spectrophotometric and chromatographic methods for simultaneous determination of the recently approved hepatitis C antiviral combination ledipasvir and sofosbuvir*”. Mostafa M. Baker, Dina S. El-Kafrawy, Mohamed S. Mahrous and **Tarek S. Belal**.

22- 100<sup>th</sup> Canadian Chemistry Conference and Exhibition (CSC 2017) held in Toronto, ON, Canada on 28 May–1 June, 2017.

Poster presentation entitled: “*Click Chemistry Inspired Copper Sulfide Nanoparticle-Based Fluorescence Assay of Kanamycin Using DNA Aptamer*”. Ahmed S. F. Belal, Azza Ismail and **Tarek S. Belal**.

23- The 9<sup>th</sup> Annual European Pharma Congress held in Madrid, Spain on June 26–28, 2017.

Poster presentation entitled: “*Validated stability-indicating HPLC-DAD method for simultaneous determination of sertaconazole nitrate, sorbic acid and methylparaben in*

*cream dosage form*". Dina S. El-Kafrawy, Mostafa M. Baker, Mohamed S. Mahrous and **Tarek S. Belal**.

24- The 5<sup>th</sup> Annual Congress on Chemistry in Drug Discovery & Designing held in Dubai, UAE on April 16–17, 2018.

Poster presentation entitled: "CZE and HPTLC methods for Simultaneous Determination of Candesartan in Binary Mixtures with Amlodipine and Hydrochlorothiazide". Hytham M. Ahmed, Fawzy A. El Yazbi, Rasha A. Shaalan, **Tarek S. Belal** and Sohila M. Elonsy.

25- BioVision Alexandria 2018 Conference organized by the Bibliotheca Alexandrina, Alexandria, Egypt on April 20–22, 2018.

Two poster presentations entitled:

- "*Click Chemistry established DNA Aptamer-based Fluorescence Assay of Tetracycline*". Ahmed S.F. Belal, Azza Ismail and **Tarek S. Belal**.

- "*Stability-Indicating HPLC-DAD Determination of Amprolium HCl and Ethopabate in Veterinary Powder*". Mostafa M. Baker, Dina S. El-Kafrawy, Magdi M. Abdel-Khalek, Mohamed S. Mahrous and **Tarek S. Belal**.

26- The 9<sup>th</sup> International Scientific Conference of Faculty of Pharmacy - Cairo University organized by Cairo University, Cairo, Egypt on April 25–26, 2018.

Poster presentation entitled: "*Validated Colorimetric Methods for Determination of Baclofen in Tablets*". Karin M. Guirguis, Amira F. El-Yazbi, Mona M. Bedair and **Tarek S. Belal**.

27- First International Pharmaceutical Sciences Conference organized by Faculty of Pharmacy, Menoufia University, Shebin El-Kom, Egypt on August 11–12, 2018.

Poster presentation entitled: "*Simple Spectrophotometric Methods for Determination of Quetiapine Fumarate in Pharmaceutical Formulation*". Yousef S. Elshamy, Hala F. Labib, Wael Talaat, Hytham M. Ahmed and **Tarek S. Belal**.

28- Bioinspired Materials 2018 conference organized by Manchester Metropolitan University, Manchester, UK on October 10<sup>th</sup>, 2018.

Poster presentation entitled: "*Forensic Electrochemistry: The Electroanalytical Sensing of Mephedrone Metabolites*". Hadil M. Elbardisy, Alejandro García-Miranda Ferrari, Christopher W. Foster, Oliver B. Sutcliffe, **Tarek S. Belal**, Wael Talaat, Hoda G. Daabees, Dale A. C. Brownson and Craig E. Banks.

29- International Conference on Pharmaceutical & Healthcare Sciences (PHS 2019) organized by Faculty of Pharmacy, Alexandria University, Egypt on November 6–7, 2019.

Two poster presentations entitled:

- “*Development and validation of stability indicating chromatographic methods for determination of the anticoagulant rivaroxaban: application to degradation, kinetics study, assay of dosage forms and analysis of spiked urine*”. Sohila M. Elonsy, Fawzy A. El Yazbi, **Tarek S. Belal**, Rasha A. Shaalan and Hytham M. Ahmed.

- “*Development and Validation of HPLC-DAD Method for Simultaneous Determination of Six Antimicrobial Drugs and three Proton Pump Inhibitors Commonly Used in Management of H. Pylori Infection. Application to Spiked Simulated Intestinal Fluid Samples*”. Mai M. Elnaggar, Dina A. Gawad and **Tarek S. Belal**.

### **Research Grants**

- 1- Basic and Applied Research Grant, Science and Technology Development Fund (STDF), (Project ID: 5575), Egypt, 2014-2016, (Project title: Effect of Hyperlipidemia on Posaconazole-Vincristine Drug-Drug Interaction in Rat), L.E.750,000 (Co-Principal Investigator).
- 2- Basic and Applied Research Grant, Science and Technology Development Fund (STDF), (Project ID: 14908), 2015-2017, (Project title: Comparative Fluorescent and Chemiluminescent Assays for Detection of Aminoglycosides and Tetracycline Antibiotics Based on Copper Nanoparticle Label), L.E.600,000 (Principal Investigator).

### **Membership**

- 1- Member in Alexandria Pharmacy Syndicate since August 1994.
- 2- Member of the editorial board of **Pharmaceutica Analytica Acta** (Longdom Publishing SL) since June 2011.
- 3- Member of the editorial board of **American Journal of Chemistry** (Scientific & Academic Publishing (SAP)) since September 2011.
- 4- Member of the editorial board of **Research Journal of Pharmaceutical, Biological and Chemical Sciences** (RJPBCS) since November 2011.

- 5- **Journal of Pharmaceutical Analysis** (Elsevier): consulting editor (2012-2015) then editorial board member (2016-Present).
- 6- Member of the editorial board of **International Journal of Pharmacy and Pharmaceutical Sciences** (IJPPS) (2012-2015).
- 7- Member of the editorial board of **Modern Chemistry** (Science Publishing Group) (2012-2015).
- 8- Member of the editorial boards of **International Journal of Analytical and Bioanalytical Chemistry** and **International Journal of Chromatographic Science** (Universal Research Publications) since January 2013.
- 9- Member of the editorial board of **Modern Chemistry & Applications** (Longdom Publishing SL) since February 2013.
- 10- Member of the editorial board of **The Open Access Journal of Science and Technology** (AgiAl Publishing House) since October 2013.
- 11- Member of the editorial board of **Austin Journal of Analytical and Pharmaceutical Chemistry** (Austin Publishing Group) since May 2014.
- 12- Member of the editorial board of **The International Reviewer** (Society of International Reviewers) since October 2014.
- 13- Member of the editorial board of **Current Analysis on Chemistry** (Mesford Publisher Inc.) since July 2018.
- 14- Member of the editorial board of **Trends in Chemistry Research** (Trend Research Publishing) since March 2019.
- 15- Reviewer in the Scientific Committees for Promotion of Professors and Associate Professors of Biochemistry and Pharmaceutical Chemistry, 12<sup>th</sup> Cycle (2016–2019) and 13<sup>th</sup> Cycle (2019–2022), Supreme Council of Universities, Egypt.

### **Consultancy**

Consultant in QC and R&D labs in Borg Pharmaceutical Industries Co., Alexandria, Egypt (December 2010 – December 2011).

### **Awards and Honors**

- 1- Alexandria University's honor list: September 1994.
- 2- Alexandria University award for scientific encouragement (2009).
- 3- Spectroscopy Challenge (14) award sponsored by Springer-Verlag. Solution to the challenge and name of the winner were published in *Analytical and Bioanalytical Chemistry* 396(5), 1631 – 1632, (2010).
- 4- Biography enlisted in *Who's Who in the World* 2010 edition.
- 5- The Academy of Sciences for the Developing World – Arab Regional Office (TWAS-ARO) Young Arab Scientist (YAS) Prize 2011 with the topic “*Chemistry for Sustainable Development in the Arab World*”, Bibliotheca Alexandrina, Alexandria, Egypt.
- 6- State Encouraging Award in Medical Sciences from Academy of Scientific Research and Technology (ASRT) (2011).
- 7- A certificate of appreciation and a commemorative medal from Alexandria University to holders of local, regional or global awards (2012).
- 8- Alexandria University Shield for distinguished scientific publishing in the field of medical sciences (2020).

### **Citations and h-index** (Updated October 2020)

- Scopus: Total citations: 825, h-index: 17 (Author ID 7801647654)
- Google Scholar: Total citations: 1157, h-index: 19
- ORCID ID: 0000-0002-1138-595X



## ***List of Publications***

### **A. Thesis and Dissertation**

**Master Thesis:** *Analysis of some pharmaceutical compounds containing pyridine or pyrimidine ring.*

Faculty of Pharmacy, Alexandria University, Egypt, 2002.

**Ph.D. Dissertation:** *Analysis of some heterocyclic nitrogenous compounds of pharmaceutical interest.*

Faculty of Pharmacy, Alexandria University, Egypt, 2005.

### **B. Papers**

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