

**Dr. Maha Mohamed Kamal Mekkawy  
(2022)**

**Associate Professor of Analytical Chemistry  
Faculty of Pharmacy**

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*Mobile : (+2) 0111-8111-564*

**Objective**

Concerning my personal academic career; the main objective is to apply the gained experience throughout my ph.D. work with the highly developed HPLC mass spectrometric instruments in my future researches. In addition, working in a healthy environment that allows for the best management of time and forming a co-operative team work.

With respect to students, I am aiming to keep them updated with the recent analytical applications throughout the taught courses.

**Education****Postgraduate Certificate of The Higher Education Academy  
University of Greenwich – UK**

2018

**Fellowship of The Higher Education Academy – UK**

2018

**Doctorate of Philosophy (Ph.D.)**

Faculty of Pharmacy

Cairo University

2007-2011

**Master of Pharmaceutical Sciences  
(M.Sc. Analytical Chemistry)**

Faculty of Pharmacy

Cairo University

2002-2007

**Bachelor of Pharmaceutical Sciences**

Faculty of Pharmacy

Cairo University

1990-1995

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***Professional  
Career  
Experience***

**January 2020 – Present  
Ahram Canadian University  
Faculty of Pharmacy  
Associate professor of Analytical Chemistry**

Main Responsibilities include:  
Teaching and assisting in the delivery of academic education courses for undergraduates, the courses include:

**Course Titles:**

Analytical Chemistry 1  
Analytical Chemistry 2

Involved in several administrative, academic, and other activities in the University, including :

- Head of the control of third year.
- Head of Program Committee.
- Head of Students-Support Committee.
- Member in the Clearing committee.
- Member in Summer Training Committee.

**February 2018 – January 2020  
Ahram Canadian University  
Faculty of Pharmacy  
Lecturer of Analytical Chemistry**

Main Responsibilities include:  
Teaching and assisting in the delivery of academic education courses for undergraduates, the courses include:

**Course Titles:**

Analytical Chemistry 1  
Analytical Chemistry 2

Involved in several administrative, academic, and other activities in the University, including :

- Working in the control of fifth year results.
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**January 2012-February 2018**  
**MSA University**  
**Faculty of Pharmacy**  
**Lecturer of Analytical Chemistry**

Main Responsibilities include:

Teaching and assisting in the delivery of academic education courses for undergraduates, the courses include:

**Course Titles:**

- Analytical Chemistry 1
- Analytical Chemistry 2
- Analytical Chemistry 3
- General and physical Chemistry
- Quality Control

Involved in several administrative, academic, and other activities in the University, including :

- MSA Graduation Projects.
- Participating in updating curriculum hand books

**2007-2012**  
**Misr International University**  
**Faculty of Pharmacy**  
**Assistant Lecturer of Analytical Chemistry**

Main Responsibilities include:

Teaching and assisting in the delivery of academic education courses for undergraduates, the courses include:

Course Titles:

- Applied Analytical Chemistry
- Redox reactions
- Acid-base reactions

In addition, I have been involved in several administrative, academic, and cultural activities in the University, include:

- Teaching and assisting in the delivery of academic education courses for undergraduates.
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**2001-2007**  
**Misr International University**  
**Faculty of Pharmacy**  
**Teaching Assistant of Analytical Chemistry**

Main Responsibilities include:

Teaching and assisting in the delivery of academic education courses for undergraduates, the courses include quantitative analysis.

***Ph.D. Study***

The PhD. thesis entitled "Analysis of important pharmaceutical compounds in various matrices using different Derivatization reagents and different techniques".

In this thesis, the following were achieved:

1. Drug monitoring in biological fluids using direct injection techniques.
2. Flow injection procedures for amino acids analysis exploiting Cu-II Oxide as a packed reactor and spectrophotometric detection.
3. Pre-column Derivatization with fluorescence detection for the determination of methotrexate and folic acid.

***Published Papers***

1- Emara Samy, **Maha Kamal**, and Mohamed Abdelkawy. "On-Line Sample Cleanup and Enrichment Chromatographic Technique for the Determination of Ambroxol in Human Serum." ***Journal of Chromatographic Science; 50 (2): 91-6, (2012).***

2- Emara Samy, **Maha Kamal**, Ghada Hadad, Hala ZaaZaa, and Mohamed Abdelkawy. "Back-Flush Column-Switching Technique for On-Line Sample Cleanup and Enrichment to Determine Guaiphenesin in Human Serum." ***Journal of Liquid Chromatography & Related Technologies; 35:15-27, (2012).***

3- Samy Emara, Walaa Zarad, **Maha Kamal**, Ramzia EL-Bagary "Coupling of on-Line Pre-Column Oxidative Cleavage and Solid-Phase Enrichment with Liquid Chromatography Using an Eco-Friendly Analytical Procedure to Determine Low Levels of Methotrexate". ***Journal of Analytical Sciences, Methods and Instrumentation; 2: 194-202, (2012).***

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- 4- Samy Emara, Tsutomu Masujima, Walaa Zarad, **Maha Kamal** and Ramzia EL-Bagary "On-line solid-phase enrichment coupled to packed reactor flow injection analysis in a green analytical procedure to determine low levels of folic acid using fluorescence detection". *Chemistry Central Journal*, **6:155, (2012)**.
- 5- Emara Samy, Tarek Aboul-Fadl, Abdel Nasser El-Shorbagy, **Maha Kamal**, Walaa Zarad and Mohamed Abdel Kawi. "A Combined Experimental Green Flow-Injection Procedure and Computational Analysis to Determine Amino Acids." *American Chemical Science Journal*; **3(4):419-433, (2013)**.
- 6- Emara Samy, Tsutomu Masujima, Ghada Hadad, **Maha Kamal**, Hala ZaaZaa, and Mohamed Abdelkawy.  
"A rapid, sensitive, and environmentally friendly on-line solid phase extraction using protein-coated  $\mu$ -Bondapak cyanide silica pre-column for chromatographic determination of paracetamol in human serum" *Journal of Liquid Chromatography & Related Technologies*; **36 (10): 1297-1311, (2013)**.
- 7- Samy Emara, Tsutomu Masujima, Walaa Zarad, **Maha Kamal**, Ramzia EL-Bagary  
"On-line coupling of derivatization with pre-concentration to determine trace levels of methotrexate". *Journal of Pharmaceutical Analysis*; **3(1):28–35, (2013)**.
- 8- Samy Emara, Tsutomu Masujima, Walaa Zarad, **Maha Kamal** and Ramzia EI-Bagary  
"Online Pre-Column Derivatization with Chromatographic Separation to Determine Folic Acid". *Journal of Chromatographic Science*; **51:544–551, (2013)**.
- 9- Samy Emara1, Tsutomu Masujima, Walaa Zarad, Khaled Mohamed, **Maha Kamal**, Marwa Fouad and Ramzia EL-Bagary  
"Field-Amplified Sample Stacking b-Cyclodextrin Modified Capillary Electrophoresis for Quantitative Determination of Diastereomeric Saponins". *Journal of Chromatographic Science*; **52:1308–1316, (2014)**.
- 10- Samy Emara, Tsutomu Masujima, Walaa Zarad, **Maha Kamal**, Marwa Fouad and Ramzia El-Bagary  
"An Eco-Friendly Direct Injection HPLC Method for Methyldopa Determination in Serum by Mixed-Mode Chromatography Using a Single Protein-Coated Column" *Journal of Chromatographic Science*; **53:1353–1360, (2015)**.

11- Samy Emara, Tsutomu Masujima, Walaa Zarad, **Maha Kamal**, Marwa Fouad & Ramzia El-Bagary

"A Combination of Isocratic and Gradient Elution Modes in HPLC with the Aid of Time-Overlapping Process for Rapid Determination of Methyldopa in Human Urine". *Journal of Liquid Chromatography & Related Technologies*; **38: 153–162, (2015).**

12- Dalia Mohamed, **Maha Kamal**

"Enhanced HPLC-MS/MS method for the quantitative determination of the co-administered drugs ceftriaxone sodium and lidocaine hydrochloride in human plasma following an intramuscular injection and application to a pharmacokinetic study". *Biomedical Chromatography*; **32: e4322, (2018).**

13- Samy Emara, Walaa Zarad, **Maha Kamal**, Ahmed Ali, and Yasmine Aboulella

"Sensitivity Enhancement for Direct Injection Capillary Electrophoresis to Determine Morphine in Human Serum via In-capillary Derivatization". *Journal of Chromatographic Science*; **57:177-185, (2019).**

14- Walaa Zarad, Heba El-Gendy, Lamiaa Bazan, Ahmed Ali, Yasmine Aboulella, **Maha Kamal**, Samy Emara, AhmedShawky  
"Bio-analytical liquid chromatographic-based method with a mixed mode online solid phase extraction for drug monitoring of fluconazole in human serum" *Journal of Chromatography B Volume 1187,(2021).*

15- Walaa Zarad, Ahmed Shawky, Ahmed Ali, Yasmine Aboulella, **Maha Kamal**, Samy Emara, Tsutomu Masujima, Heba El-Gendy  
"Field amplified sample stacking and in-capillary derivatization for forensic analysis of morphine and morphine-6-glucuronide in human urine by capillary electrophoresis" *Talanta Open, Volume 3, (2021).*

16- Heba El-Gendy, Walaa Zarad, Lamiaa Bazan, Ahmed Ali, Yasmine Aboulella, **Maha Kamal**, Samy Emara, Ahmed Shawky  
"Rapid Back flushed direct sample injection bioanalytical HPLC-UV method for therapeutic drug monitoring of terbinafine" *Analytical Biochemistry 659, (2022).*

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***Skills*****Computer Skills**

- Efficiency in using Microsoft Office (Word – PowerPoint – Excel).

**Languages**

- Native speaker of Arabic
- Fluent in English

***Personal  
Data***

**Date of Birth** August 9<sup>th</sup>, 1972  
**Place of Birth** Tripoli, Libya  
**Nationality** Egyptian

***Reference***

- **Prof. Dr. Samy Emara**  
TITLE: Professor of Analytical Chemistry  
Misr International University, Egypt
  - **Prof. Dr. Shereen Tawakol**  
TITLE: Professor of Analytical Chemistry  
Ahran Canadian University, Egypt
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