

# Rasha Abdel Aziz Shaalan

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**Rasha.shaalan@pua.edu.eg**

**Date of birth:** 13/9/1971

**Nationality:** Egyptian

**Status:** .Married



## Education:

September 2005	<i>Ph.D. of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Alexandria University.</i>
May 1998	<i>Master of Pharmaceutical Sciences, Faculty of Pharmacy, Alexandria University.</i>
June 1994	<i>Bachelor of Pharmaceutical Sciences, Faculty of Pharmacy, Alexandria University, with Grade "Excellent" Distinction Honors.</i>
June 1990	<i>Terminating secondary, preparatory and primary studies at "Religieuses fransiscanes Coeur Immacule' de Marie".</i>
October 2004	<i>Certificate of "Institutional Toefel" with grade" Very good".</i>

## Languages:

- ❖ **Native Arabic**
- ❖ **Fluent English**
- ❖ **Good in French**

### **Working Experience:**

#### **June 2016 till present**

Professor of Pharmaceutical Analytical Chemistry, Department of Pharmaceutical Analytical Chemistry, *Faculty of Pharmacy, Alexandria University.*

#### **January 2011 to June 2016**

Assistant professor of Pharmaceutical Analytical Chemistry, Department of Pharmaceutical Analytical Chemistry, *Faculty of Pharmacy, Alexandria University.*

#### **January 2006 to January 2011**

Lecturer of Pharmaceutical Analytical Chemistry, Department of Pharmaceutical Analytical Chemistry, *Faculty of Pharmacy, Alexandria University.*

#### **June 1998 to January 2006**

Assistant Lecturer of Pharmaceutical Analytical Chemistry, Department of Pharmaceutical Analytical Chemistry, *Faculty of Pharmacy, Alexandria University.*

#### **October 1994 to April 1998**

Demonstrator of Pharmaceutical Analytical Chemistry, Department of Pharmaceutical Analytical Chemistry, *Faculty of Pharmacy, Alexandria University.*

## **PROFESSIONAL ATTRIBUTES AND EXPERIENCE**

- *Teaching of practical courses in Analytical and Pharmaceutical Chemistry to pharmacy students including qualitative and quantitative analysis of organic and inorganic compounds and instrumental analysis.*
- *Teaching of Spectroscopy to 2nd year pharmacy students (Alexandria University) in the academic year 2009 – 2010.*
- *Preparation of “physicochemicals methods of analysis of nutraceuticals and cosmetic Products” course to the students of **Analysis of Cosmetics and Nutraceuticals Diploma** in the academic year 2008 – 2009.*
  1. *Contributing to the teaching load for the quantitative analytical chemistry course, second year students (Alexandria University-Damanhour branch; 2010- 2011)*
  2. *Contributing to the teaching load for the quantitative analytical chemistry course, second year students (Alexandria University-; 2010-2011, 2011-2012, 2012 – 2013, 2013 – 2014, 2014 - 2015).*
  3. *Contributing to the teaching load for the quantitative analytical chemistry courses (PC 306; 2010-2011) / (PC 407; 2011-2012), second year clinical pharmacy students.*
  4. *Contributing to the teaching load for the General Chemistry course (PHR122); 2011-2012, freshmen pharmacy students, Pharos University.*
  5. *Contributing to the teaching load for the Analytical Chemistry II course (PHR 224) ;( 2012-2013, 2013-2014), pharmacy students, Pharos University.*
  6. *Contributing to the teaching load for the Pharmaceutical Analysis course (PHR 326) ;( 2016 - 2017), pharmacy students, Pharos University.*
  7. *Post graduate master and Ph. D. thesis supervision:*

- *Completed supervision of a Ph.D. thesis entitled: "**Analytical study of some selected antiviral drugs.**"*

*By: M. D. Heba Kamal Ashour. Started August 2007- July 2011.*

- *Completed supervision of a master thesis entitled: "**Analytical studies on some selected drugs acting on the gastrointestinal tract.**"*

*By: Pharmacist Mahmoud Abdel Sattar. Started September 2010- September 2013.*

- *Completed supervision of a master thesis entitled: "**Advanced Analytical techniques for determination of minor and trace constituents in pharmaceuticals.**"*

*By: Pharmacist Marwa Rashad. Started September 2010, November 2014.*

- *Completed supervision of a master thesis entitled: "**Analysis of some selected drugs used in the treatment and management of cardiovascular disorders.**"*

*By: Pharmacist Sohaila Mohamad Mahmoud Elonsy. Started September 2010- June 2013.*

- *Current supervision of a master thesis entitled: "**Analytical study of some selected B - Lactam Antibiotics.**"*

*By: Pharmacist Mohammad Samir Mahmoud Nasr. Started September 2013, in progress.*

*Current supervision of a Ph.D. thesis entitled: "**Quantitative determination of some drugs used for the treatment of cardiovascular diseases and associated disorders**"*

*By: M. D. Sohaila Mohamad Mahmoud Elonsy. Started September 2013, in progress.*

*Current supervision of a Ph.D. thesis entitled: “**Chromatographic and electrophoretic methods for the analysis of some selected drugs alone or in presence of their related substances.**”*

*By: M. D. Mahmoud Abdel Sattar. Started December 2014, in progress.*

- *Operating modern instruments and analytical problem solving using different analytical techniques: UV/ Vis. Spectrophotometry, Fluorimetry, HPLC, HPTLC and electrochemical techniques.*
- *A reliable, skilled and dynamic researcher with experience and record of achievements.*

**Publications:**

**A. Thesis and Dissertation:**

**Master Thesis:** *“Analysis of some selected drugs acting on the cardiovascular system”.*

Faculty of Pharmacy, University of Alexandria, Egypt, 1998.

**Ph.D. Dissertation:** *“Analysis of some drugs used in the treatment of cardiovascular disturbances”.*

Faculty of Pharmacy, University of Alexandria, Egypt, 2005.

**B. Papers:**

1. Spectrophotometric and Spectrofluorimetric Methods For The Determination of Terazosin In Dosage forms.H.H. Abdine, F.A. El-Yazbi, S.M. Blaih and **R.A. Shaalan**, Spectroscopy Letters, 31(5), 969-980, (1998).
2. Spectrophotometric determination of ternary mixtures by the derivative ratio spectrum – zero crossing method, Fawzy A. El- Yazbi, Heba H. Abdine and **Rasha A. Shaalan**, Spectroscopy Letters, 31(7), 1403-1414,

- (1998).
3. Spectrophotometric and Spectrofluorimetric methods for the assay of lisinopril in single and multicomponent pharmaceutical dosage forms. Fawzy A. El-Yazbi, Heba H. Abdine and **Rasha A. Shaalan**. Journal of Pharmaceutical and Biomedical Analysis, 19, (1999), 819-827.
  4. Spectrophotometric methods for the determination of benazepril hydrochloride in its single and multicomponent dosage forms. Fawzy A. El-Yazbi, Heba H. Abdine and **Rasha A. Shaalan**. Journal Of Pharmaceutical and Biomedical Analysis, 20, (1999), 343-350.
  5. Direct-, differential solubility- and compensatory- derivative spectrophotometric methods for resolving and subsequently determining binary mixtures of some antihypertensive drugs, H.H.Abdine, F.A. El-Yazbi, **R.A.Shaalan** and S.M. Blaih, S.T.P.Pharma Sciences 9(6), 587-591, (1999).
  6. Spectrophotometric Determination of enalapril maleate and Ramipril in Dosage forms, salah M. Blaih, Heba H. Abdine, Fawzy A. El-Yazbi and **Rasha A. Shaalan**. Spectroscopy Letters, 33 (1), 91- 102, (2000).
  7. Kinetic Spectrophotometric determination of atenolol, metoprolol tartarate and timolol maleate in pharmaceutical preparations, Saied F. Belal, Rim S. Haggag, Ekram M. Hassan and **Rasha A. Shaalan**, Bull Fac. Pharm. Cairo Univ., 42(2), 359-370, (2004).
  8. The use of an aromatic substitution reaction in the spectrophotometric determination of Selected Amino or Thiol Containing Drugs, Saied Fathalla Belal, Rim Said Haggag and **Rasha Abdel-Aziz Shaalan**, Journal of Food and Drug Analysis, vol. 16, No. 1, (2008). ( *Alexandria Univ. Award* )
  9. Differential pulse polarographic Determination of clonidine hydrochloride and fosinopril sodium in pharmaceutical preparations through labelling using nitro derivatives, Rim Said Haggag, Saied Fathalla Belal, and **Rasha Abdel-Aziz Shaalan**, Bull Fac. Pharm. Cairo Univ., 46(1), 271-282, (2008).

10. Derivatization with 4-Chloro-7-nitro-2,1,3-benzoxadiazole for the spectrophotometric and differential pulse polarographic determination of acetylcysteine and captopril, Rim Haggag, Saied Belal and Rasha Shaalan, *Sci Pharm.* 76 : 33- 48, (2008).
11. The use of 4- chloro- 7- nitro-2, 1,3-benzoxadiazole for the determination of amlodipine bezylate and heptaminol hydrochloride in dosage forms. Rim S. Haggag, Saied F. Belal and Rasha A. Shaalan. *Mansoura J. Pharm. Sci.*, 25(1), 22 – 30 (2009).
12. Selective stability- indicating methods for the determination of clonidine hydrochloride and / or its related substance 2,6-dichloroaniline. Rim Said haggag, Saied Fathallah Belal, **Rasha Abdel Aziz Shaalan** ; *Journal of Food and Drug Analysis*, Vol. 19, No. 2, 2011, Pages 174-182. (*Alexandria Univ. Award*)
13. Selective and Stability- indicating methods for the simultaneous determination of Mexiletine Hydrochloride and/or Its Related substances, 2,6- Dimethyl phenol, Tarek S. Belal, Rim S. Haggag, and **Rasha A. Shaalan**, *Journal of AOAC International*, Vol. 91, No. 4, 720-730 (2008). (*Alexandria Univ. Award*)
14. Improved Spectrofluorimetric Methods for determination of penicillamine in capsules. **Rasha A. Shaalan**, *Cent. Eur. J. Chem.* 8(4), 892-898, (2010). (*Alexandria Univ. Award*)
15. Spectrofluorimetric and Spectrophotometric determination of Pregabalin in capsules and urine samples. **Rasha A. Shaalan**, *IJBS*, 6(3), 260-267, (2010).
16. Validated HPLC Determination of the Two Fixed Dose Combinations (Chlordiazepoxide Hydrochloride and Mebeverine Hydrochloride; Carvedilol and Hydrochlorothiazide) in their Tablets. Rim S. Haggag, **Rasha A. Shaalan** and Tarek S. Belal; *J. AOAC Int.*, 93(4), 1192 – 1200, (2010). (*Alexandria Univ. Award*)
17. HPLC-DAD stability indicating determination of nitrofurazone and

lidocaine hydrochloride in their combined topical dosage form. **Rasha A. Shaalan** and Tarek S. Belal; Journal of Chromatographic Science, vol. 48, 647-653, september 2010. (*Alexandria Univ. Award*). Presented in EAS Conference, Nov. 2009.

18. Simultaneous Spectrofluorimetric Determination of Amlodipine Besylate and Valsartan in their Combined Tablets. **Rasha A. Shaalan** and Tarek S. Belal; Drug Testing and Analysis 2010, 2, 489-493, first published online 24 September 2010, DOI: 10.1002/dta.160. (*Alexandria Univ. Award*)
19. Gradient HPLC-DAD stability indicating determination of lidocaine hydrochloride and cetylpyridinium chloride in two combined oral gel dosage forms. Tarek S. Belal, **Rasha A. Shaalan** and Rim S. Haggag; JOURNAL OF AOAC INTERNATIONAL VOL. 94, NO. 2, 2011. (*Alexandria Univ. Award*)
20. Selective DAD-HPLC Methods for the Determination of Tenofovir fumarate and Emtricitabine in Bulk Powder and in Tablets. Mohammad H. AbdelHay, Azza A. Gazy, **Rasha A. Shaalan** and Heba K. Ashour. *Acta Chromatographica* 27(2015)1, 41–54.  
DOI: 10.1556/AChrom.27.2015.1.4(*Alexandria Univ. Award*)
21. 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** ; poster presentation for *Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy* (Pittcon 2011 Conference and Exposition); published in Journal of Liquid Chromatography & Related Technologies, 35: 215–230, 2012. DOI: 10.1080/10826076.2011.597071. (*Alexandria Univ. Award*)
22. Validated stability- indicating HPLC and HPTLC methods for the determination of Ritonavir in bulk powder and in capsules. Mohammad H. AbdelHay, Azza A. Gazy, **Rasha A. Shaalan** and Heba K.



Ashour ; poster présentation for *Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy* (Pittcon 2012 Conference and Exposition) Orlando, USA, March 11-15, 2012. *Journal of Food and Drug Analysis*, Vol. 20, No. 4, 2012, Pages 963-973. doi:[10.6227/jfda.2012200428](https://doi.org/10.6227/jfda.2012200428). (*Alexandria Univ. Award*)

23. HPLC-DAD Stability Indicating Determination of the Fixed-Dose Combination of Diclofenac sodium and Diflunisal in Their Combined Dosage Form. Tarek S. Belal and **Rasha A. Shaalan**; [10.3797/scipharm.1301-24](https://doi.org/10.3797/scipharm.1301-24). *Scientia Pharmaceutica* 2013; 81: 713–731.
24. Validated Stability-Indicating HPLC-DAD Method of Analysis for the Antihypertensive triple Mixture of Amlodipine Besylate, Valsartan and Hydrochlorothiazide in their Tablets. **Rasha Shaalan**; Tarek S Belal; Fawzy El-yazbi; Sohila M El-Onsy, [10.1016/j.arabic.2013.04.012](https://doi.org/10.1016/j.arabic.2013.04.012) *Arabian Journal of Chemistry*.
25. Validated Stability-Indicating HPLC-DAD Method of Analysis for the Antihypertensive binary Mixture of carvedilol and Hydrochlorothiazide in Tablet dosage forms. Tarek S Belal; **Rasha Shaalan**; Fawzy El-yazbi; Sohila M El-Onsy, *Chromatographia* (2013) 76:1707–1720 DOI [10.1007/s10337-013-2537-0](https://doi.org/10.1007/s10337-013-2537-0). (*Alexandria Univ. Award*)
26. Simultaneous Determination of Hyoscine, Ketoprofen and Ibuprofen in Pharmaceutical Formulations by HPLC – DAD. **Rasha A. Shaalan**, Rim S. Haggag, Saeid F. Belal and Mahmoud Agami. *Journal of Applied Pharmaceutical Science* Vol. 3 (07), pp. 038-047, July, 2013 Available online at <http://www.japsonline.com> DOI: 10.7324/JAPS.2013.3708.
27. Simple spectrophotometric methods for determination of tenofovir fumarate and emtricitabine in bulk powder and in tablets. Mohammad H. AbdelHay, Azza A. Gazy, **Rasha A. Shaalan** and Heba K. Ashour. *Journal of Spectroscopy* Volume 2013, Article ID 937409, 7 pages <http://dx.doi.org/10.1155/2013/937409>.

28. Application of a new simple spectrophotometric method for determination of the binary mixtures of hydrochlorothiazide with either carvedilol or losartan potassium in tablets dosage forms. Tarek s Belal, Rasha A Shaalan, Fawzy A El Yazbi and sohila M El-Onsy. Der Pharma Chemica, 2014, 6(4):120-129.
29. Validated HPTLC methods for determination of some selected antihypertensive mixtures in their combined dosage forms. Rasha A Shaalan, Tarek s Belal, Fawzy A El Yazbi and sohila M El-Onsy. Bulletin Facult Pharmacy Cairo Univ (2014), <http://dx.doi.org/10.1016/j.bfopcu.2014.07.001>.
30. Validated HPLC - DAD and HPLC-FLU Methods for Simultaneous Determination of Granisetron and Domperidone in Pharmaceutical Formulations and in Plasma.  
**Rasha A. Shaalan**, Rim S. Haggag, Saeid F. Belal and Mahmoud Agami.  
EUROANALYSIS XVIII (The European Conference on Analytical Chemistry) 2015, held in Bordeaux, France, 6th - 10th September 2015.

### **Technical Skills:**

- ❖ *Proficient user of Microsoft Applications.*

### **Personal Skills:**

- ❖ *Manage workload such that deadlines are consistently met.*

### **Awards and Honors:**

- Alexandria University's honor list: September 1994.
- Alexandria University awards for encouraging scientific publication.
- Biography enlisted in Who's Who in the World 2012 edition.
- Alexandria University's award of scientific encouragement, 2015.

## **Training:**

## **Conferences, Symposia, Workshops:**

### **TRAINING SEMINARS AND CONFERENCES**

#### **Participated in the following training sessions:**

- Teaching preparation workshop, 32nd course, Education Faculty, 1997.
- TOEFEL preparatory course, ESP Center of Alexandria University, with general grade “Very Good”, 2004.
- Effective Teaching workshop T1, Faculty and Leadership Development Center, FLDC, June 25-28, 2005.
- Thinking Skills P1, FLDC, June 11-16, 2005.
- Communication Skills I2, FLDC, July 9-12, 2005.
- Research Methodology T4, FLDC, July 30- August 2, 2005.
- Code of Ethics P4, FLDC, August 6-8, 2005.
- Credit hours system, FLDC, January 23-25, 2010.
- Use of technology in teaching, FLDC, March 9-11, 2010.
- Preparing competitive funds for research projects, FLDC, May 18-20, 2010.
- Legal and financial aspects in university environment, FLDC, June 29-1<sup>st</sup> July, 2010.
- International publishing of scientific research, FLDC, July 27-29, 2010.

- Conference Organization, FLDC, August 24-26, 2010.
- University Management, FLDC, December; 9, 10, 2013.
- E - Learning, FLDC, August; 30, 31, 2014.
- References Management System, FLDC, February; 25, 26, 2015.
- Research Team Management, FLDC, March; 4, 5, 2015.
- Examination and Evaluation of students 'systems, FLDC, March; 18, 19, 2015.
- Crisis and Disaster Management, FLDC, March; 25, 26, 2015.
- Workshop on Course specification, Quality Assurance unit, Faculty of Pharmacy, Alex. University, June 19<sup>th</sup>, 2008.
- Workshop on Annual Course report, Quality Assurance unit, Faculty of Pharmacy, Alex. University, June 23<sup>rd</sup>, 2008.
- Laboratory Performance and Quality Assurance Course and Workshop, June 27-29, 2009, held at the Medical Technology Center, Medical Research Institute, University of Alexandria.
- Non-Conventional Methods for Optimization in Experimental Studies Course, February 16, 2010, organized by the Science Park, Faculty of Pharmacy, University of Alexandria.
- 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, University of Alexandria.
- References and data management using endnote-X4, May 21<sup>st</sup> and 22<sup>nd</sup>, 2011, held at the Medical Technology Center, Medical Research Institute, University of Alexandria.
- Basic statistical Techniques using SPSS, February 15<sup>th</sup> and 16<sup>th</sup>, 2012,

held at the Medical Technology Center, Medical Research Institute, University of Alexandria.

- Basic electrophoresis techniques in protein research, 6<sup>th</sup> and 7<sup>th</sup> March, 2013, held at the Medical Technology Center, Medical Research Institute, University of Alexandria.
- How to improve the quality of separation?  
Held during the Euroanalysis 2015 Conference held in Bordeaux, France, 6<sup>th</sup> – 10<sup>th</sup> September 2015.

**Attending the following conferences:**

- 1st Scientific Conference of Faculty of Pharmacy Cairo University, March, 29<sup>th</sup>, 2008. On PHARMACY Role in Community Health promotion.

A poster presentation was shown entitled: "Differential pulse polarographic Determination of clonidine hydrochloride and fosinopril sodium in pharmaceutical preparations through labelling using nitro derivatives". Rim Haggag, Saied Belal and **Rasha Shaalan**.

- 1<sup>st</sup> International Conference of quality Assurance and Accreditation center, April, 15<sup>th</sup>, 2008. On " *الجودة و الاعتماد بين الواقع و الطموحات* "
- Eastern Analytical Symposium and Exposition (EAS 2009) held in Somerset, New Jersey, USA on November 16-19, 2009.

A poster presentation was shown entitled: "HPLC-DAD stability indicating determination of nitrofurazone and lidocaine hydrochloride in their combined topical dosage form". **Rasha A. Shaalan** and Tarek S. Belal.

- The International conference Bio Vision Alexandria 2010 organized in partnership with the world Life sciences forum, Bio Vision held in Alexandria, Egypt on April, 2010.

- Third Scientific Conference of faculty of Pharmacy, Cairo University on “Good Pharmacy Practice” April 25<sup>th</sup> – 26<sup>th</sup> April 2012. A poster presentation entitled: “Fluorimetric Determination of Oseltamivir in Bulk powder and in Pharmaceutical Preparations” Mohammad H. AbdelHay, Azza A. Gazy, **Rasha A. Shaalan** and Heba K. Ashour.
- The International conference Bio Vision Alexandria 2014 organized in partnership with the world Life sciences forum, Bio Vision held in Alexandria, Egypt on April 7 - 9, 2014. HPLC-DAD and HPTLC Methods for Simultaneous Determination of Carvedilol and Hydrochlorothiazide. Sohila M. Elonsy, Tarek S. Belal, Rasha A. Shaalan, Fawzy A. El Yazbi.
- The 3<sup>rd</sup> FUE International Conference of Pharmaceutical Sciences, Future University, Cairo, Egypt. 9 – 11 February, 2015. Poster Presentation entitled: “Stability- indicating HPLC Method for the Simultaneous Determination of Alverine Citrate and chlordiazepoxide in Plasma” Rim S. Haggag, **Rasha A. Shaalan**, Saeid F. Belal and Mahmoud Agami.
- 18th edition of Euroanalysis- European conference on analytical chemistry- Bordeaux, France 6 - 10 September 2015. Poster presentation entitled: “Validated HPLC - DAD and HPLC- FLU Methods for Simultaneous Determination of Granisetron and Domperidone in Pharmaceutical Formulations and in Plasma”. Rasha A. Shaalan, Rim S. Haggag, Saeid F. Belal and Mahmoud A. Agami.

### Visited Sites:

### Activities:

- *Reviewing manuscripts for international journals:*
  - Central European journal of chemistry.

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- Drug testing and analysis.
  - International journal of biomedical sciences.
  - Journal of chromatographic sciences.
  - Arabian Journal of Chemistry.
  - Scientia Pharmaceutica
  - Analytical Chemistry research
  - Food bioscience
  - African journal of pharmacy and pharmacological research
  - British journal of pharmaceutical research
  - Journal of planar chromatography and related technology.
  - Journal of analytical science and technology
- *Supervision of the summer training of third year students in pharmacies.*
  - *Academic advisor for the clinical pharmacy students since 2009.*

References are upon requests.