

CURRICULUM VITAE

Aya Saad Radwan

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1. PERSONAL DATA

Nationality: Egyptian
Place of Birth: Mansoura city, Egypt
Date of Birth: April 01, 1993
Language: Arabic: Mother tongue
English: Writing, Listening, and Speaking (Excellent)
Marital status: Married

2. RESEARCH INTEREST

The main topics of research interests are:

1. Analysis of drugs in multi-component mixtures, such as eye drops, antihistamine, antihypertensive preparations,.....etc. Combined therapy is frequently recommended to potentiate the action (synergistic effect) of some drugs.
2. Analysis of drugs using nanotechnology (quantum dots).
3. Analysis of drugs in biological fluids, such as blood, plasma, urine....etc in pharmacokinetic and pharmacodynamic studies.

Conducting the researches using HPLC, fluorometric, spectrophotometric and titrimetric methods.

3. EDUCATION

- 2020 – Now:** **Ph.D. in pharmaceutical Analytical Chemistry**
Pharmaceutical Analytical Chemistry Dept., Faculty of Pharmacy, Suez-canal University, Ismailia, Egypt.
Dissertation title: “Use the advanced Techniques for the Analysis of Some Pharmaceutically Important Compounds Containing Heterocyclic Rings”.
- 2015 – 2020:** **M.Sc. in Pharmaceutical Analytical Chemistry**
Faculty of Pharmacy, Tanta University, Tanta, Egypt.
Thesis title: “New Analytical Methods for Determination of Some Nitrogen and / or Carbonyl Group Containing Drugs”
- 2009– 2014:** **B.Sc. in Pharmaceutical Sciences**

4. EXPERIENCES

4.1. Positions

4.1.1. Academic positions

- 2022-Now** **lecturer**
Pharmaceutical Chemistry Department, Faculty of Pharmacy, Horus University, New Damietta, Egypt.
- 2020 – 2022:** **Assistant lecturer**
Pharmaceutical Chemistry Department, Faculty of Pharmacy, Horus University, New Damietta, Egypt.
- 2018 – 2020:** **Demonstrator**
Pharmaceutical Chemistry Department, Faculty of Pharmacy, Horus University, New Damietta, Egypt.

4.1.2. Other positions

- 2016– 2018:** **Clinical Pharmacist**
Cardio vascular system intensive care Department, Dikirnis Hospital, Mansoura, Egypt
- 2015 – 2016:** **Hospital Pharmacist**
Dikirnis Hospital, Mansoura, Egypt.
- 2014- 2015:** **Community Pharmacist**
Masr Pharmacy, Mansoura, Egypt

4. 2. Teaching

Undergraduate

- 2022- Now** **Teaching lectures for level 1 and 2 (Pharmaceutical analytical 1, Pharmaceutical analytical 2 and instrumental analysis)**
- 2018 – 2022:** **Qualitative Inorganic Analysis (B.SC. Labs, First Year pharmacy students, semester 1, credit hour system)**
Pharmaceutical Chemistry Department, Faculty of Pharmacy, **Horus University in Egypt**, New Damietta City, Egypt.
- Analytical Chemistry 2 (B.SC. Labs, Second Year pharmacy students, semester 3, credit hour system)**
Pharmaceutical Chemistry Department, Faculty of Pharmacy, **Horus University in Egypt**, New Damietta City, Egypt.
- Analytical Chemistry 1 (B.SC. Labs, First Year pharmacy students, semester 2, credit hour system)**
Pharmaceutical Chemistry Department, Faculty of Pharmacy, **Horus University in Egypt**, New Damietta City, Egypt.

Instrumental Analysis (B.SC. Labs, Second Year pharmacy students, semester 4, credit hour system)

Pharmaceutical Chemistry Department, Faculty of Pharmacy,
Horus University in Egypt, New Damietta City, Egypt.

Drug Quality Control (B.SC. Labs, 5th Year pharmacy students, semester 10, credit hour system)

Pharmaceutical Chemistry Department, Faculty of Pharmacy,
Horus University in Egypt, New Damietta City, Egypt.

Pharmaceutical Analytical Chemistry I (Pharm -D program) (Labs, First Year pharmacy students, semester 1)

Pharmaceutical Chemistry Department, Faculty of Pharmacy,
Horus University in Egypt, New Damietta City, Egypt.

Pharmaceutical Analytical Chemistry II (Pharm -D program) (Labs, First Year pharmacy students, semester 2)

Pharmaceutical Chemistry Department, Faculty of Pharmacy,
Horus University in Egypt, New Damietta City, Egypt.

Pharmaceutical Analytical Chemistry III (Pharm -D program) (Labs, Second Year pharmacy students, semester 3)

Pharmaceutical Chemistry Department, Faculty of Pharmacy,
Horus University in Egypt, New Damietta City, Egypt.

Instrumental Analysis (Pharm -D program) (Labs, Second Year pharmacy students, semester 4)

Pharmaceutical Chemistry Department, Faculty of Pharmacy,
Horus University in Egypt, New Damietta City, Egypt.

Pharmaceutical Analytical Chemistry I (Pharm -D Clinical program) (Labs, First Year pharmacy students, semester 1)

Pharmaceutical Chemistry Department, Faculty of Pharmacy,
Horus University in Egypt, New Damietta City, Egypt.

Pharmaceutical Analytical Chemistry III (Pharm -D Clinical program) (Labs, First Year pharmacy students, semester 2)

Pharmaceutical Chemistry Department, Faculty of Pharmacy,
Horus University in Egypt, New Damietta City, Egypt.

Instrumental Analysis (Pharm -D program) (Labs, Second Year pharmacy students, semester 3)

Pharmaceutical Chemistry Department, Faculty of Pharmacy,
Horus University in Egypt, New Damietta City, Egypt.

5. TRAINING COURSES

A. Technical Training Courses:

- Training in Mansoura city public pharmacies (2010-2013).

- The use of EndNote® X19 program, Mansoura University Library, Egypt, 2022.

B. Conferences:

1. 3rd Annual Conference of Graduate Researchers in Pharmaceutical Sciences, December 5th, 2021, Faculty of Pharmacy, Suez-canal University, Egypt [poster & workshop].
2. Climate Change: Opportunities and Challenges Conference, March 26-27, 2021, Faculty of Pharmacy, Suez-canal University, Egypt.

6. List of publications for Aya Saad Radwan, M.Sc. Faculty of Pharmacy – Horus University

I. PAPERS PUBLISHED IN PEER REVIEWED JOURNALS

1. Synchronous spectrofluorometric methods for simultaneous determination of diphenhydramine and ibuprofen or phenylephrine in combined pharmaceutical preparations. **Aya Saad Radwan**, M. M. Salim and Sherin Hammad
Luminescence. 2020,35, 550–560.
[DOI: [10.1002/bio.3750](https://doi.org/10.1002/bio.3750)]
2. Simultaneous estimation of recently FDA approved co-formulated ophthalmic solution benoxinate and fluorescein: Application to aqueous humor. **Aya Saad Radwan**, Mohamed M. Salim, Ghada M. Hadad, Fathalla Belal, and Mahmoud M. Elkhoudary.
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 267 (2022): 120599
[DOI: [10.1016/j.saa.2021.120599](https://doi.org/10.1016/j.saa.2021.120599)]
3. A highly sensitive spectrofluorimetric method for the determination of bilastine in its pharmaceutical preparations and biological fluids. **Aya Saad Radwan**, Mahmoud M. Elkhoudary, Ghada M. Hadad, Fathalla Belal, and Mohamed M. Salim.
Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 276 (2022): 121246
[DOI: [10.1016/j.saa.2022.121246](https://doi.org/10.1016/j.saa.2022.121246)]
4. Green fluorometric strategy for simultaneous determination of the antihypertensive drug telmisartan (A tentative therapeutic for COVID-19) with Nebivolol in human plasma. Mohamed M. Salim, **Aya saad Radwan**, Ghada M. Hadad, Fathalla Belal, and Mahmoud M. Elkhoudary

Scientific Reports, 13(1):.3576

[DOI:[10.1038/s41598-023-30400](https://doi.org/10.1038/s41598-023-30400)]

5. Study of the binding interaction of salmon sperm DNA with nintedanib, a tyrosine kinase inhibitor using multi-spectroscopic, thermodynamic, and in silico approaches. **Aya Saad Radwan**, Mohamed M Salim, Mahmoud M Elkhoudary, Ghada M Hadad, Moataz A Shaldam, Fathalla Belal, Galal Magdy

Journal of Biomolecular Structure and Dynamics, (2023): 1-11

[DOI:[10.1080/07391102.2023.2202776](https://doi.org/10.1080/07391102.2023.2202776)]

II. BOOKS, REVIEWS, AND THESIS

- **Aya Saad Radwan**, “New Analytical Methods for Determination of Some Nitrogen and / or Carbonyl Group Containing Drugs”, Master thesis, Tanta, Egypt, 2020.

III. POSTERS PRESENTED IN CONFERENCES

- **Aya Saad Radwan**, Mohamed M. Salim, Ghada M. Hadad, Fathalla Belal, and Mahmoud M. Elkhoudary. “Simultaneous estimation of recently FDA approved co-formulated ophthalmic solution benoxinate and fluorescein: Application to aqueous humor”. 3rd Annual Conference of Graduate Researchers in Pharmaceutical Sciences 5 December, 2021, Faculty of Pharmacy, Suez- Canal University, Ismailia, Egypt. [Poster Presentation]

IV. SUPERVISION

- Under-Graduate student (research project), Faculty of Pharmacy, Horus University, Egypt
 - Research Project (Lead Hazard in Cosmetics).
- Under-Graduate student (research project), Faculty of Pharmacy, Horus University, Egypt
 - Research Project (Environmental benign).

V. SCIENTIFIC ACTIVITIES

- **Reviewing paper for the following journal:**
 - Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy.

VI. Skills

- Foreign languages: English (excellent, teofl)
- Advanced computer skills [International Computer Driving License (ICDL)].
- Professional skills in several scientific software such as EndNote® 19.

VII. REFERENCE SCIENTISTS

Fathalla F. Belal

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