Curriculum Vitae

Hend Zaki Hassan

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Summary

I am a lecturer at the Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt with 12 years of experience in academic teaching & research. I have Ph. D. and M.Sc. Degrees in Analytical Chemistry, Faculty of Pharmacy, Ain Shams University. I always try to be creative in explanation and presenting scientific content using animation, videos, role-play, mind mapping, social media & mobile applications to add enthusiasm & suspense to the learning process. I have excellent skills in using presentation and animation software as PowerPoint, Prezi, Vyond, Slidedog, VideoScribe, Powtoon.

My research fields of interest include nanomaterial's synthesis, characterization & applications in innovative electrochemical biosensors. Besides, using quantum dots in analytical applications. Moreover, developing green sample extraction techniques and new analytical methods for the determination of substances in different matrices using spectrophotometric, spectrofluorimetric, chromatographic & electrochemical techniques.

Personal Information

Date of Birth	20th August 1986
Nationality	Egyptian

Current Position

2018 - Present	Lecturer, Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Ain Shams University
2011 - Present	Quality Assurance Coordinator, Pharmaceutical Analytical Chemistry Department, Faculty of Pharmacy, Ain Shams University

Education

2015 - 2018	**Ph.D. in Analytical Chemistry** Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Ain Shams University. Title of Thesis: "Analytical Study on Certain Drugs Used For Treatment of Chronic Obstructive Pulmonary Disease"
2011 - 2014	**M.Sc. in Analytical Chemistry** Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Ain Shams University. Title of Thesis: "Analytical Study on Certain Natural Anti- diabetics"
2004 - 2009	**B.Sc. in Pharmaceutical Sciences** Faculty of Pharmacy, Ain Shams University, with general grade Excellent with honors.

Teaching Experience

2018 - Present	**Lecturer in Analytical Chemistry** Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Ain Shams University.
2021-2022	**Part-time Lecturer in Analytical Chemistry** Department of Pharmaceutical Chemistry, Faculty of Pharmacy, British University in Egypt (BUE).
2014 - 2017	**Assistant Lecturer in Analytical Chemistry** Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Ain Shams University.
2010 - 2014	**Teaching Assistant in Analytical Chemistry** Department of Pharmaceutical Analytical Chemistry, Faculty of Pharmacy, Ain Shams University.

Teaching Courses:

Undergraduates	• Physical & Inorganic Chemistry • Analytical Chemistry I & II • Instrumental Analysis • Food & Cosmetics Analysis
Postgraduates	• Sample Preparation; Extraction & Clean-Up Techniques • HPLC Troubleshooting

Professional Skills

Teaching Skills	• Experience of 12 years in teaching using different learning technologies. • Good experience in blended learning (online learning & place-based learning) • Excellent skills in using presentation & animation software such as PowerPoint, Prezi, Vyond, Slidedog, VideoScribe and Powtoon. • Creativity in explanation & presenting scientific content using animation, videos, role-plays, mind mapping, social media and mobile applications. • Good presentation & communication skills. • Problem solving skills. • Project & time management skills. • Leadership skills.
Research Skills	• Nanomaterials synthesis, characterization & applications in electrochemical biosensors. • Sample preparation using green extraction & clean-up techniques. • Quantum dots applications in analytical methods.

- Development & validation of new analytical methods for determination of substances in different matrices using spectrophotometric, spectrofluorimetric, chromatographic & electrochemical techniques.
- Stability-indicating studies.

Training Courses

2022	**Tools used for The Greenness Assessment of Analytical Methods,** Analytical Chemistry department, of Faculty of Pharmacy, Ain Shams University
	Mendeley Tutorial, Analytical Chemistry department, of Faculty of Pharmacy, Ain Shams University
2021	**Question Bank**, Measurement and Evaluation Centre, Ain Shams University
	"Tailored Nanomaterials For Analytical Applications; Where Structure Meets Function" Webinar, Presented by Dr. Sherif Okeil, Institute for Particle Technology and Laboratory for Emerging Nanometrology, Technische Universität Braunschweig, Germany.
	"LC-MS; Basics & Applications" Webinar, Presented by Dr. Ahmed El-Khatib, Department of Chemistry, Humboldt-Universitätzu Berlin, Berlin, Germany.
2020	**Using e-learning system (Moodle),** e-learning Centre, Ain Shams University
2018	**Hunting a Scholarship,** Training & Development Centre (TD Centre), Ain Shams University
	Ain Shams Scholar Workshop, Information Unit of Faculty of Pharmacy, Ain Shams University
	Fighting Fires in Academic Buildings Workshop, Faculty of Pharmacy, Ain Shams University

2017	**Effective Communication Skills,** Training & Development Centre (TD Centre), Ain Shams University
	Using Technology in Teaching, Training & Development Centre (TD Centre), Ain Shams University
	Data Management & Basic Statistics, Training & Development Centre (TD Centre), Ain Shams University
	Egyptian Knowledge Bank (EKB), Training & Development Centre (TD Centre), Ain Shams University
	Strategic Planning, Training & Development Centre (TD Centre), Ain Shams University
	CAMAG® Thin Layer Chromatography-Mass Spectrometry (TLC-MS) Workshop, Central Lab of Faculty of Pharmacy, Ain Shams University
	Plagiarism Workshop, Faculty of Pharmacy, Ain Shams University
2014	**Using Technology in Teaching**, Faculty and Leadership Faculty Development Project (FLDP), Ain Shams University
	Scientific Research Ethics, Faculty and Leadership Development Project (FLDP), Ain Shams University
2013	**Examination and Evaluation Systems**, Faculty and Leadership Development Project (FLDP), Ain Shams University
	Quality Standards of Teaching Process, Faculty and Leadership Development Project (FLDP), Ain Shams University
2012	**International Publication,** Faculty and Leadership Development Project (FLDP), Ain Shams University
2011	**Effective Presentation Skills**, Faculty and Leadership Faculty and Leadership Development Project (FLDP), Ain Shams University
2010	**Drug Design,** Syndicate of Pharmacists in Egypt
2009	**Clinical Pharmacy**, Cairo University
2008	**First Aid**, Cairo University and Ahmed Maher Hospital

Publications

1. Atty, S. A., Ghany, M. F. A., Hussein, L. A., Magdy, N., & Yamani, H. Z. (2020). **TiO_2 nanoparticles and ionic liquid platform for selective electrochemical determination of indacaterol in pharmaceutical formulations and human fluids: application to content uniformity.** *Journal of the Iranian Chemical Society*, *17*(2), 383-395.

2. Yamani, H. Z., Hussein, L. A., & Abdel Ghany, M. F. (2019). **Microwave-assisted extraction of the gallic acid biomarker from *Acacia arabica* bark followed by HPLC analysis**. *Archives of Pharmaceutical Sciences Ain Shams University*, *3*(1), 78-89.

3. Hussein, L. A., Magdy, N., & Yamani, H. Z. (2017). **Stable glycopyrronium bromide solid contact ion selective potentiometric sensors using multi-walled carbon nanotubes, polyaniline nanoparticles and polyaniline microparticles as ion-to-electron transducers: A comparative study**. *Sensors and Actuators B: Chemical*, *247*, 436-444.

4. Ghany, M. F. A., Hussein, L. A., Magdy, N., & Yamani, H. Z. (2016). **Simultaneous spectrophotometric determination of indacaterol and glycopyrronium in a newly approved pharmaceutical formulation using different signal processing techniques of ratio spectra**. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, *157*, 251-257.

5**.** Kamel, A. H., Yamani, H. Z., Safwat, N., & Gala, H. R. (2016). **Assessment of pesticides in environmental samples using voltammetric molecular imprented based sensors: A review.** *European Chemical Bulletin*, *5*(2), 69-76.

6. Hussein, L. A., Abdel Ghany, M. F., & Yamani, H. Z. (2015)**. Development of microwave-assisted extraction of trigonelline biomarker from *Trigonella foenum-graecum* seeds followed by high-performance thin-layer chromatographic and high-performance liquid chromatographic analyses**. *JPC-Journal of Planar Chromatography-Modern TLC*, *28*(5), 373-379.

7. Ghany, M. F. A., Hussein, L. A., & Yamani, H. Z. (2014). **Comparative study of calix-6-arene, 2-hydroxy propyl beta cyclodextrin and 18-crown-6 as ionophores in potentiometric ion-selective electrodes for determination of trigonelline in *Trigonella foenum-graecum* seeds extract and plasma.** *Journal of Applied Pharmaceutical Science*, *4*(7), 32.