

## Curriculum Vitae

# Heba Essam Sedky Ahmed

Lecturer - Department of Pharmacology  
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## PERSONAL DATA

Date & Place of birth: June 12, 1984, Alexandria, Egypt.

Nationality: Egyptian.

Language Proficiency: English and Arabic

## ACADEMIC QUALIFICATIONS

1. **PhD** in Pharmacology and Experimental Therapeutics (2020), Medical Research Institute, Alexandria University.
2. **M. Sc.** in Pharmacology and Experimental Therapeutics (2015), Medical Research Institute, Alexandria University.
3. **M.B.B.Ch** (2008), Distinction honor, Faculty of medicine, Alexandria University.

## APPOINTMENTS

### I- Academic:

1. Lecturer (2021– date), faculty of pharmacy, Arab Academy for Science, Technology & Maritime Transport, Egypt.
2. Lecturer (2020- date), Department of Pharmacology & Experimental Therapeutics, Medical Research Institute, Alexandria University, Egypt.
3. Assistant Lecturer (2015- 2020), Department of Pharmacology & Experimental Therapeutics, Medical Research Institute, Alexandria University, Egypt.
4. Demonstrator (2010 - 2015), Department of Pharmacology & Experimental Therapeutics, Medical Research Institute, Alexandria University, Egypt.
5. House officer at Alexandria university hospital, 2009-2010.

### II- Administrative:

- Member in the committee of Egyptian Association of Advancement of Medical Basic Science (EAMBS)
- Deputy manager of measurement and assessment unit of Medical research institute (2019- date)
- Quality coordinator for pharmacology and experimental therapeutics department (2020- date)
- Participation in teaching the following courses in pharmacology department in medical research institute (2020-date)
  - 1- Pharmacology (1704720)
  - 2- Graduate pharmacology (1704701)

- 3- Methods in pharmacology (1704704)
  - 4- Therapeutics in high risk patients (1704802)
  - 5- Clinical pharmacology and therapeutics II (1704801)
  - 6- Recent advances in chemotherapy (1704805)
- Participation in teaching the following courses in faculty of pharmacy, Arab Academy for Science, Technology & Maritime Transport (2021- date)
    - 1- Toxicology (PCS429, PD426)
    - 2- Basic & Clinical Toxicology (CCS445)
    - 3- Therapeutics I (CPP311)
    - 4- Pharmaotherapeutics III (PCS423)
    - 5- Basic pharmacology (PD226, CCS241)
    - 6- Pharmacology I (CCS342)
    - 7- Pharmacology II (CCS343)
    - 8- Pharmacology & Therapeutics II (PD324)
    - 9- Clinical Pharmacokinetics (PCS428)
    - 10- Pharmacology and Therapeutics III (PD422)
    - 11- Pharmacology III (CCS444)
    - 12- Pharmacology IV (CCS446)
    - 13- Pharmacology and therapeutic V (PD521)
  - Participating in preparation and teaching in basic and advanced pharmacovigilance workshop which was held at medical technology Centre, Alexandria university (15-17 March 2022)
  - Participating in preparation and teaching in experimental animal models of various diseases I workshop which was held at medical technology Centre, Alexandria university (25 February 2023)
  - Participating in preparation and teaching in experimental animal models of various diseases II workshop which was held at medical technology Centre, Alexandria university (25 May 2023)
  - Member in the organizing committee of international conference of medical research institute “milestone in cancer research: from genomics to practice”, 13-14 May 2023
  - Participating in preparation and teaching in handling of experimental animals (routes of drug administration and isolation of different organs) workshop which was held at medical technology Centre, Alexandria university (17-18 December, 2023)
  - Participating in preparation and teaching in experimental animal models of various diseases I workshop which was held at medical technology Centre, Alexandria university (25 February 2024)
  - Participating in preparation and teaching in experimental animal models of various diseases II workshop which was held at medical technology Centre, Alexandria university (14 September 2024)
  - Participating in preparation and teaching in handling of experimental animals workshop (routes of drug administration and isolation of different organs) workshop which was held at medical technology Centre, Alexandria university (12-13 February, 2025)
  - Practical Training of demonstrators and lecturer assistants of Pharmacology Department, College of Medicine, Alexandria university

#### **CONFERENCES, COURSES & WORKSHOPS ATTENDED**

- Speaker in 19<sup>th</sup> conference of Egyptian Association of Advancement of Medical Basic Science "Unlocking The Secrets To Healthy Longevity" 10 April 2025, Faculty of Medicine,

Alexandria, Egypt

- Organization of 19<sup>th</sup> conference of Egyptian Association of Advancement of Medical Basic Science "Unlocking The Secrets To Healthy Longevity" 10 April 2025, Faculty of Medicine, Alexandria, Egypt
- Speaker in international conference of Nutromed ,19-20 September 2024.
- Organization of 18<sup>th</sup> conference of Egyptian Association of Advancement of Medical Basic Science " future of RNA applications: diagnostics, therapeutics and prevention " 24<sup>th</sup> April 2024, Faculty of Medicine, Alexandria, Egypt
- Speaker in international conference of Nutromed ,28-29 September 2023.
- Speaker in international conference of medical research institute “milestone in cancer research: from genomics to practice”, 13-14 May 2023
- Poster in "The 2nd international conference and exhibition on pharmaceutical and healthcare sciences", Faculty of pharmacy, Alexandria University, Egypt, 23-24 November, 2022, entitled "Combination of thioridazine and sorafenib potentiates antitumor effect in HepG2 cell line"
- Speaker in "The World Breast Cancer Month", Medical research institute, Alexandria University, Egypt, October 19<sup>th</sup>, 2022
- " Item club workshop", Measurement and assessment center, Alexandria university, 8-20 November 2020.
- "Basic level of assessment for staff in health sector, measurement and assessment center, Ministry of High Education and Scientific Research, 17-18 November 2020.
- "Taking your classroom online", DAAD, 21 April, 2020
- "University exams and digital question banks", DAAD, 25 September, 2019
- "The Use of Laboratory Animals in Experimental Medicine and Research Workshop" ", Medical Technology Center, Alexandria University, Egypt, 5-7February, 2017
- "Hands on Western Blotting Workshop" Medical Biochemistry Department, Faculty of Medicine, Alexandria University, Egypt, 24-25 February,2016
- "Real time PCR workshop" Medical Biochemistry Department, Faculty of Medicine, Alexandria University, Egypt, 16-17 May, 2015.
- " Biostatistics at the receiving end workshop"", Egybiotech, Alexandria University, Egypt, 11-13 February, 2015
- "Clinical Trial Design, Implementation and Reporting Workshop", Egybiotech, Alexandria University, Egypt, 5-7 February, 2014
- "The Basic Techniques Used in Molecular Biology Workshop ", Medical Technology Center, Alexandria University, Egypt, 20-23 October, 2014
- "Basic techniques in Cell Culture and Stem Cell Research", Medical Technology Center, Alexandria University, Egypt, 16-18 June, 2012
- 16<sup>th</sup> conference of Egyptian Association of Advancement of Medical Basic Science " Fever updates" 23<sup>th</sup> April 2019, Faculty of Medicine, Alexandria, Egypt.
- 15<sup>th</sup> conference of Egyptian Association of Advancement of Medical Basic Science " Immunomodulation: a new era in medicine" 29<sup>th</sup> March 2018, Facultyof Medicine, Alexandria, Egypt.
- 14<sup>th</sup> conference of Egyptian Association of Advancement of Medical Basic Science " Liver regeneration: current and future trend" 30<sup>th</sup> March 2017, Facultyof Medicine, Alexandria, Egypt.
- 13<sup>th</sup> conference of Egyptian Association of Advancement of Medical Basic Science "Understanding lymphoma: translating basic science to clinical practice "24<sup>th</sup> March 2016,

Faculty of Medicine, Alexandria, Egypt.

- 12th conference of Egyptian Association of Advancement of Medical Basic Science "Advances in Adiposity and Neurocognition " 19<sup>th</sup> March 2015, Faculty of Medicine, Alexandria, Egypt.
- 11th conference of Egyptian Association of Advancement of Medical Basic Science "The Burn Wound from Basic to Management " 28<sup>th</sup> April 2014, Faculty of Medicine, Alexandria, Egypt
- 2<sup>nd</sup> International Conference "Molecular Therapeutics and Introduction to Molecular Biology Techniques" 15<sup>th</sup>- 18<sup>th</sup> December 2014, Faculty of Science, Alexandria university, Egypt.
- 18<sup>th</sup> Conference "6<sup>th</sup> International "Medical Research Institute –Alexandria University- Multidisciplinary Approach in Cancer Management "23<sup>rd</sup> -26<sup>th</sup> September, 2013, Tulip Hotel, Alexandria, Egypt
- 17<sup>th</sup> Conference "5<sup>th</sup> International "Medical Research Institute –Alexandria University- advances in Medical Research" Obesity "13<sup>th</sup> -16<sup>th</sup> November ,2012, Helton Green Plaza Hotel, Alexandria, Egypt
- 16<sup>th</sup> Conference "4<sup>th</sup> International "Medical Research Institute –Alexandria University- advances in Medical Research" Quality in Medical Education and Practice "19<sup>th</sup> -22<sup>nd</sup> October, 2010, Sheraton Montazah Hotel, Alexandria, Egypt.

### Publications

1. El-Wakil ES, Khodear GAM, **Ahmed HES**, Ibrahim GIK, Hegab F, Abdo SM. Therapeutic efficacy of albendazole and berberine loaded on bovine serum albumin nanoparticles on intestinal and muscular phases of experimental trichinellosis. *Acta Trop.* 2023 May;241:106896.
2. **Sedky, H. E.**, Elwany, Y. N., Alfay, E. S. E., Elwany, M. N., Nabil, Y. M., Manna, H. F., ... & Hadidy, W. F. E. (2024). Combined neurokinin-1 receptor antagonist and sorafenib is a promising approach for hepatocellular carcinoma therapy. *Egyptian Liver Journal*, 14(1), 57.
3. Wen, M. M., Abdelwahab, I. A., Abozohra, R., Abdelhamid, S. M., Baraka, K., **Ahmed, H. E.** S., & El-Hadidy, W. F. (2025). Sustainable nanophytosome-based therapies against multidrug-resistant *Escherichia coli* in urinary tract infections: an in Vitro and in vivo study. *Journal of Nanobiotechnology*, 23(1), 174.
4. Farag, M. M., Wagdy, M. A., **Ahmed, H. E.**, & Kazem, A. H. (2025). The Potential Protective Effect of the Standardized Ginkgo biloba Leaves Extract EGb761 against Contrast-Induced Acute Kidney Toxicity in Rats via Mitigating Renal Tissue Redox Imbalance, Inflammation, Cell Apoptosis and Mitochondrial Damage. *Journal of Medicinal Natural Products*, 2(2), 100010.
5. Noah, A. A., & **Sedky, H. E.** (2025). New frontiers in pharmacological treatment of attention-deficit hyperactivity disorder. *Naunyn-Schmiedeberg's Archives of Pharmacology*, 1-11.

### Dissertation supervision (in progress)

- 1- Thesis Master Degree, Medical research institute, Alexandria University. " A study on the possible protective effects of Berberine and/or aspirin on experimental myocardial infarction induced in rats " as a cosupervision with Prof. Dr. Wessam Elhadidy, 2022.
- 2- Thesis Master Degree, Medical research institute, Alexandria University. " Evaluation of the potential anti-tumor effect of chlorogenic acid and/or doxorubicin in hepatocellular carcinoma cell line. " as a cosupervision with Prof. Dr. Magda Abbas Nasr, 2022.
- 3- Thesis Master Degree, Medical research institute, Alexandria University. " Evaluation of potential modulatory effects of Disulfiram on the carcinogenic Src-pathway in Triple Negative breast cancer cell line " as a cosupervision with Prof. Dr.

Remonda Rizk and Prof. Dr. Maged Wasfy, 2023.

- 4- Thesis Master Degree, Medical research institute, Alexandria University. " Evaluation of Potential Protective Effects of Ginkgo Biloba in Comparison with Aspirin in Isoproterenol-Induced Myocardial Infarction in Rats " as a cosupervision with Prof. Dr. Wessam Elhadidy, 2024.
- 5- Thesis PhD Degree, Medical research institute, Alexandria University. " A Study on the Potential Protective Effects of Ginkgo Biloba Alone or Its Combination with Olmesartan Therapy on Acute Myocardial Infarction and Post-Infarction Remodeling in Isoproterenol-Induced Rat Model " as a cosupervision with with Prof. Dr. Wessam Elhadidy, 2024.

#### **Dissertation supervision (discussed)**

- 1- Thesis Master Degree, Medical research institute, Alexandria University. " Assessment of Potential Preventive Effects of *Ginkgo biloba* Extract, Given Alone and in Combination with Atorvastatin, on Contrast-Induced Nephropathy in Rats " as a cosupervision with Prof. Dr. Mahmoud Farag and Prof. Dr. Amany Kazem, 2024
- 2- Thesis Master Degree, Medical research institute, Alexandria University. " A study on The Possible Effects of Canagliflozin, Carvedilol or Their Combination Therapy on Isoproterenol-Induced Acute Myocardial Infarction in Rats " as a cosupervision with Prof. Dr. Wessam Elhadidy and Dr. Asmaa Khalifa, 2024.

#### **RESEARCH INTEREST**

- 1- Investigate new therapeutic alternatives for better management of Cancer in-vivo and invitro.
- 2- Investigate new targets for chronic diseases

