

Curriculum Vitae

Esther Tharwat Menze, PhD

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Personal Information

- Citizenship: Egyptian
- Date of Birth: September 7th, 1984
- Marital Status: Married
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Present Position

- Associate Professor, Department of Pharmacology and Toxicology, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
- Program Coordinator, Ph.D. Program, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
- Deputy Director of the Assessment and Evaluation Unit, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
- Trainer at the Institute of Environmental Studies and Research, Ain Shams University, Cairo, Egypt

Degrees

- 2002:** Egyptian High School Certificate, Notre Dame Des Apotres School, Heliopolis, Cairo, Egypt.
- 2007:** Bachelor of Pharmacy Faculty of Pharmacy, Ain Shams University
- 2012:** Master's degree in Pharmaceutical Science, Pharmacology and Toxicology, Faculty of Pharmacy, Ain Shams University
- 2014:** Ph.D. in Pharmaceutical Sciences, Pharmacology and Toxicology, Faculty of Pharmacy, Ain Shams University

Occupational Background

- 2008-2012:** Worked as Demonstrator of Pharmacology & Toxicology, Faculty of Pharmacy, Ain Shams University
- 2012-2015:** Worked as assistant lecturer of Pharmacology & Toxicology, Faculty of Pharmacy, Ain Shams University
- 2015-2020:** Worked as Lecturer of Pharmacology & Toxicology, Faculty of Pharmacy, Ain Shams University
- 2020- Current:** Working as Associate Professor of Pharmacology & Toxicology, Faculty of Pharmacy, Ain Shams University
- 2016- Current:** Working as trainer in the Institute of Environmental Studies and Research, Ain Shams University
- 2016-2019:** Worked as Coordinator of the Master and PhD Programs – Faculty of Pharmacy – Ain Shams University
- 2019- Current:** Working as Coordinator of the PhD Program – Faculty of Pharmacy – Ain Shams University
- 2017-2018:** Acted as a member of the Environment Culture Council of the Ministry of Culture
- 2017-2021:** Part-time lecturer, Faculty of Pharmacy, British University in Egypt, El-Sherouk, Cairo, Egypt
- 2022- 2023:** Part-time lecturer, Faculty of Nursing, Ain Shams University, Cairo, Egypt.

Training and Workshops

- Workshop on the “Environmental audit of educational facilities” – Institute of Environmental Studies and Research – Ain Shams University
- Training on “Managing Crises and disasters” – Quality Assurance and Accreditation Center – Ain Shams University
- Training on “Methods of assessment and evaluation and preparation of the test item - health sector” The Assessment and Evaluation Center certifies the Higher Education Development Projects Management Unit, in cooperation with the Supreme Council for Universities
- Training on “Assessment in Pharmacy Education Programme” Knowledge E together with the Egyptian Knowledge Bank
- Training and Development Center training programs
 - 1- Change management
 - 2- Active teaching
 - 3- Student’ assessment and evaluation systems
 - 4- The 8 roles of health professional teacher
 - 5- Organization of conferences
 - 6- International Publication
 - 7- Scientific writing
 - 8- Using technology in teaching
 - 9- Professional ethics and behaviors
 - 10- Competitive Research projects
 - 11- Developing a research strategy
 - 12- Capacity development for internationalization
 - 13- The university work legal aspects for faculty members

Conferences

2014: Poster Presentation in the 17th Congress of the Association of Pharmacy Colleges in the Arab World, Faculty of Pharmacy, Ain Shams University, Cairo Egypt.

“Genistein improves locomotor activity in an ovariectomized rat model of Huntington’s disease”

2016: Oral presentation in the 55th Annual Conference of the Egyptian Society of Pharmacology and Experimental Therapeutics – “The first European – Egyptian workshop on Pharmacovigilance” – British University- Cairo-Egypt

“Genistein improves sensorimotor gating: mechanisms related to its neuroprotective effects on the striatum”.

2018: Poster Presentation in the 2nd International Conference of the Faculty of Pharmacy, Ain Shams University, Cairo, Egypt – “Future Trends in the Development of Pharmaceutical Education and Research”.

“Filgrastim: A potential neuroprotective agent in Parkinson’s disease and its underlying mechanisms”

2018: Poster Presentation in 7th World Congress on Mass Spectrometry, Rome, Italy.

“In vivo anti-inflammatory activity and UPLC-MS/MS profiling of the peels and pulps of Cucumis melo var. cantalupensis and Cucumis melo var. reticulatus”

2019: Attended the eighteenth conference of Ain Shams University – “Creativity, Innovation, Industry”

2023: Poster Presentation in the 3rd International Conference of the Faculty of Pharmacy, Ain Shams University, Cairo, Egypt – “Sustainability and Innovation in Pharmaceutical Research and Industry”

“Chemotherapy and Cognitive Function: Comprehensive Review on Methotrexate-Induced Chemobrain”

2023: Worked as the head of the Public Relations committee for the organization of the 3rd International Conference of the Faculty of Pharmacy, Ain Shams University, Cairo, Egypt – “Sustainability and Innovation in Pharmaceutical Research and Industry”

Academic Activities

Undergraduate courses for Bachelor program – Ain Shams University

Medical Terminology, Basic Pharmacology; Clinical Pharmacology; Toxicology; Clinical Toxicology; Drug and Poison Information

Undergraduate courses for Bachelor program - Drug Design Program – Ain Shams University

Pharmacology 1; Virtual Pharmacological screening; Toxicology; Pharmacological quality control; Drug Interactions and Drug information

Undergraduate courses for Bachelor program – British University in Egypt

Evaluation of Safety of Drugs

Undergraduate courses for Pharm D program – Ain Shams University

Biostatistics; Basic Pharmacology

Undergraduate courses for Pharm D (Clinical) program – Ain Shams University

Basic Pharmacology; Pharmacology 1

Postgraduate courses – Ain Shams University

Clinical Pharmacology and therapeutics; Molecular pharmacology; Experimental Pharmacology; Neuropharmacology; Biostatistics

Supervised the graduation projects of the fifth-level students - the drug design program years 2015-2016, 2016-2017, 2017-2018, 2018-2019 and 2019-2020.

Control work

- 2015-2016: Member of the third-year control
- 2016-2017 to 2018-2019: Member of the fourth-year control
- 2016-2017 to 2020-2021: Member of Drug Design Program control
- 2020-2021: Member of Level 2 control (Pharm D)
- 2021-2023: Head of Level 2 control (Pharm D)

Scientific and Research Activities

H-index according to Scopus author Profile is (17)

Scopus Author ID: 55329078200

Orchid ID: <https://orcid.org/0000-0002-1819-9113>

Research Interests

Neuropharmacology: The pharmacological management of depression, psychosis, epilepsy and neurodegeneration, and the underlying molecular mechanisms of the acting drugs.

Toxicity of Chemotherapy: Studying the molecular mechanisms of chemotherapy-induced toxicity, including nephrotoxicity, neurotoxicity, hepatotoxicity and endocrine toxicity besides searching for natural products to alleviate such toxicity and improve patients' quality of life.

Gastrointestinal tract Pharmacology: Drug repurposing for the management of common gastrointestinal tract conditions.

Pharmacology of Estrogens: The effect of phytoestrogens and related compounds on postmenopausal medical conditions (osteoporosis and depression), epilepsy and multiple sclerosis.

Anti-inflammatory profiling of naturally isolated compounds.

Publications

1. Potential neuroprotective effects of hesperidin on 3-nitropropionic acid-induced neurotoxicity in rats.

Esther T Menze, Mariane G Tadros, Ahmed M Abdel-Tawab, Amani E Khalifa
Neurotoxicology (2012) 33 (5), 1265-1275

2. Genistein improves 3-NPA-induced memory impairment in ovariectomized rats: impact of its antioxidant, anti-inflammatory and acetylcholinesterase modulatory properties.

Esther T Menze, Ahmed Esmat, Mariane G Tadros, Ashraf B Abdel-Naim, Amani E Khalifa
PLoS One (2015) 10 (2), e0117223

3. Genistein improves sensorimotor gating: Mechanisms related to its neuroprotective effects on the striatum.

Esther T Menze, Ahmed Esmat, Mariane G Tadros, Ashraf B Abdel-Naim, Amani E Khalifa
Neuropharmacology (2016) 105, 35-46

4. The hidden mechanism beyond ginger (*Zingiber officinale* Rosc.) potent in vivo and in vitro anti-inflammatory activity.

Shahira M Ezzat, Marwa I Ezzat, Mona M Okba, Esther T Menze, Ashraf B Abdel-Naim
Journal of Ethnopharmacology (2018) 214, 113-12

5. Neuroprotective effects of filgrastim in rotenone-induced Parkinson's disease in rats: insights into its anti-inflammatory, neurotrophic, and antiapoptotic effects.

Mariama S Azmy, Esther T Menze, Reem N El-Naga, Mariane G Tadros
Molecular Neurobiology (2018) 55 (8), 6572-6588

6. Effects of genistein on pentylenetetrazole-induced behavioral and neurochemical deficits in ovariectomized rats.
Amr A Elsayed, Esther T Menze, Mariane G Tadros, Bassant MM Ibrahim, Nagwa A Sabri, Amani E Khalifa
Naunyn-Schmiedeberg's Archives of Pharmacology (2018) 391 (1), 27-36
7. Tetramethylpyrazine guards against cisplatin-induced nephrotoxicity in rats through inhibiting HMGB1/TLR4/NF- κ B and activating Nrf2 and PPAR- γ signaling pathways.
Haidy E Michel, Esther T Menze
European Journal of Pharmacology (2019) 857, 172422
8. Involvement of Nrf2/HO-1 antioxidant signaling and NF- κ B inflammatory response in the potential protective effects of vincamine against methotrexate-induced nephrotoxicity in rats.
Youssef M Shalaby, Esther T Menze, Samar S Azab, Azza S Awad
Archives of Toxicology (2019) 93 (5), 1417-1431
9. In vivo anti-inflammatory activity and UPLC-MS/MS profiling of the peels and pulps of Cucumis melo var. cantalupensis and Cucumis melo var. reticulatus. Shahira M Ezzat, Mai Raslan, Maha M Salama, Esther T Menze, Seham S El Hawary
Journal of Ethnopharmacology (2019) 237, 245-254
10. Antiosteoporotic activities of isoquercitrin in ovariectomized rats: Role of inhibiting hypoxia inducible factor-1 α .
Hadeer A Fayed, Bassant M Barakat, Shereen S Elshaer, Ashraf B Abdel-Naim, Esther T Menze
European Journal of Pharmacology (2019) 865, 172785
11. Eucalyptus sideroxylon bark anti-inflammatory potential, its UPLC-PDA-ESIqTOF-MS profiling, and isolation of a new phloroglucinol.
Rehab MS Ashour, Mona M Okba, Esther T Menze, Rania A El Gedaily
Journal of Chromatographic Science (2019) 57 (6), 565-574
12. Caffeic acid phenethyl ester counteracts doxorubicin-induced chemobrain in Sprague-Dawley rats: Emphasis on the modulation of oxidative stress and neuroinflammation.
Marwa A Ali, Esther T Menze, Marianne G Tadros, Mai F Tolba
Neuropharmacology (2020) 181, 108334
13. Potential therapeutic antipsychotic effects of Naringin against ketamine-induced deficits in rats: involvement of Akt/GSK-3 β and Wnt/ β -catenin signaling pathways.
Mina Y George, Esther T Menze, Ahmed Esmat, Mariane G Tadros, E El Demerdash
Life Sciences (2020) 249, 117535
14. A potent lignan from Prunes alleviates inflammation and oxidative stress in lithium/pilocarpine-induced epileptic seizures in rats.
Fadia S Youssef, Esther T Menze, Mohamed L Ashour
Antioxidants (2020) 9 (7), 575
15. Role of linagliptin in preventing the pathological progression of hepatic fibrosis in high fat diet and streptozotocin-induced diabetic obese rats
Yara M Aboulmagd, Alshaymaa AZ El-Bahy, Esther T Menze, Samar S Azab, Ebtehal El-Demerdash
European Journal of Pharmacology (2020) 881, 173224

16. Protective effects of morin against depressive-like behavior prompted by chronic unpredictable mild stress in rats: Possible role of inflammasome-related pathways.
Mennat-Allah M Hassan, Amany M Gad, Esther T Menze, Osama A Badary, Reem N El-Naga
Biochemical Pharmacology (2020) 180, 114140

17. Deferiprone ameliorates memory impairment in Scopolamine-treated rats: The impact of its iron-chelating effect on β -amyloid disposition.
Silvia F Fawzi, Esther T Menze, Mariane G Tadros
Behavioural Brain Research (2020) 378, 112314

18. In-vivo Anti-inflammatory Activity of Hydrocotyle umbellata L. aerial parts and Isolation of the Main Phytochemicals.
Sherif A Hamdy, Esther T Menze, Hala M El Hefnawy, Shadia M Azzam, Elsayed A Aboutabl
Iranian Journal of Pharmaceutical Research: IJPR (2020) 19 (3), 34

19. The effect of metformin on indomethacin-induced gastric ulcer: Involvement of nitric oxide/Rho kinase pathway.
Eman Y AbdelAziz, Mariane G Tadros, Esther T Menze
European Journal of Pharmacology (2021) 892, 173812

20. Simvastatin mitigates depressive-like behavior in ovariectomized rats: Possible role of NLRP3 inflammasome and estrogen receptors' modulation.
Esther T Menze, Hager Ezzat, Salma Shawky, Marwa Sami, Eman H Selim, Samar Ahmed, Nouran Maged, Nancy Nadeem, Shorouk Eldash, Haidy E Michel
International Immunopharmacology (2021) 95, 107582

21. Protective and therapeutic effects of the flavonoid "pinocembrin" in indomethacin-induced acute gastric ulcer in rats: impact of anti-oxidant, anti-inflammatory, and anti-apoptotic mechanisms.
Aya A El-Demerdash, Esther T Menze, Ahmed Esmat, Mariane G Tadros, Doaa A Elsherbiny
Naunyn-Schmiedeberg's Archives of Pharmacology (2021), 1-14

22. Naringin treatment improved main clozapine-induced adverse effects in rats; emphasis on weight gain, metabolic abnormalities, and agranulocytosis.
Mina Y George, Esther T Menze, Ahmed Esmat, Mariane G Tadros, E ElDemerdash
Drug Development Research (2021), 1-10

23. The potential neuroprotective effect of diosmin in rotenone-induced model of Parkinson's disease in rats.
Christine N Habib, Mohamed R Mohamed, Mariane G. Tadros, Mai F Tolba, Esther T Menze, Somia I Masoud.
European Journal of Pharmacology (2021), 914, 174573

24. UPLC-PDA-MS/MS Profiling and Healing Activity of Polyphenol-Rich Fraction of Alhagi maurorum against Oral Ulcer in Rats.
Hala El-Zahar, Esther T Menze, Heba Handoussa, Ahmed K Osman, Mohamed ElShazly, Nada M Mostafa, Noha Swilam.
Plants 11.3 (2022): 455.

25. Insights on the neuroprotective effects of *Salvia officinalis* L. and *Salvia microphylla* Kunth in memory impairment rat model.

Iriny Ayoub, Mina Y George, Esther T Menze, Maryhan Mahmoud, Mariam Botros, Mariam Essam, Israa Ashmawy, Pussy Shendi, Andrew Hany, Mohammed Galal, Mohamed Ayman, Rola Labib.

Food & Function (2022).

26. Neuroprotective repositioning and anti-tau effect of carvedilol on rotenone-induced neurotoxicity in rats: Insights from an *in silico* & *in vivo* anti-Parkinson's disease study.

Kamal, R.E., Menze, E., Albohy, A., Ahmed, H.I., Azab, S.S.

European Journal of Pharmacology (2022).

27. Linagliptin counteracts rotenone's toxicity in non-diabetic rat model of Parkinson's disease: Insights into the neuroprotective roles of DJ-1, SIRT-1/Nrf-2 and implications of HIF1- α .

ElGamal, R.Z., Tadros, M.G., Menze, E.T.

European Journal of Pharmacology, 2023, 941, 175498

28. L-carnitine Modulates Cognitive Impairment Induced by Doxorubicin and Cyclophosphamide in Rats; Insights to Oxidative Stress, Inflammation, Synaptic Plasticity, Liver/brain, and Kidney/brain Axes

Morid, O.F., Menze, E.T., Tadros, M.G., George, M.Y.

Journal of Neuroimmune Pharmacology, 2023.

29. Clotrimazole ameliorates chronic mild stress-induced depressive-like behavior in rats; crosstalk between the HPA, NLRP3 inflammasome, and Wnt/ β -catenin pathways.

Fawzi, S.F., Michel, H.E., Menze, E.T., Tadros, M.G., George, M.Y.

International Immunopharmacology, 2024.

30. Effect of carvedilol on pharmacokinetics of sofosbuvir and its metabolite GS-331007: role of P-glycoprotein.

Salma N Fahmy, Lobna H Khedr, Sara A Wahdan, Esther T Menze, Samar S Azab, Ebtehal El-Demerdash

Journal of Pharmacy and Pharmacology, 2024.

Scientific Supervision

19 Master and 8 PhD theses

Review of publications

Reviewer for "PLoS one", "Biochemical Pharmacology", "Frontiers in Pharmacology", "European Journal of Pharmacology", "BMC Complementary & Alternative Medicine" and "Archives of Pharmaceutical Sciences"

Guest editor for Frontiers in Pharmacology

Projects:

"Support and Qualifying of Educational Programs for International Accreditation in Higher Educational Institutions."

The Egyptian Ministry of Higher Education and Scientific Research.

Awards:

- 1- "Ain Shams Incentive Award" in the field of medical sciences, for 2022.
- 2- "State Encouragement Award" in the field of medical sciences, for 2023.

General skills

- Language Skills
 - Arabic: Mother Tongue
 - English: Excellent
 - French: Good

- Computer Skills
 - Proficient user of MS Word, Excel, and PowerPoint
 - Proficient user of the Internet
 - Expert in managing e-learning courses.

- Personal Qualifications
 - Ability to work under pressure.
 - Dynamic, creative, and self-motivated.
 - Fast Learning and good communication skills
 - Work individually and as a cooperative team member.