

REZA EBRAHIMI HARIRY

Faculty of Pharmacy, Girne American University, Kyrenia, Cyprus

Phone: (+90)5391124736 (Cell), (+90)8506502000/1238 (Work)

E-mail: rehariry@gmail.com, rezahariry@gau.edu.tr

Research group: <https://www.sehs.info/>

Academic Social: [Google Scholar](#), [Reseachgate](#), [Web of Science](#), [ORCID](#)

Objective:

Dedicated and accomplished Assistant Professor with expertise in pharmaceutical and medical science, artificial intelligence, and eHealth, boasting 8 years of teaching and research experience. I am seeking opportunities to excel in academia, mentor students, and advance research in pharmaceutical and digital health sciences.

EDUCATION

- **Ph.D., Pharmacology and Toxicology**

Department of Pharmacology and Toxicology, Ankara University, Ankara, Turkey (2015-2022), Part-Time

- **Visiting Researcher**

Institute of Pharmacology and Toxicology, Freie Universitat Berlin, Germany (2017)

- **DVM (Doctor of Veterinary Medicine)**

Faculty of Veterinary Medicine, Azad University, Tabriz, Iran (2000-2006)

ACADEMIC APPOINTMENT

- **Assistant Professor, Head of the Department**

*Department of Pharmacology and Digital Health Technology, Faculty of Pharmacy, Girne American University, Kyrenia, Cyprus
2022- Present*



TEACHING EXPERIENCE

- **Instructor** (Part-time): Hacettepe University, Ankara, Turkey
Title of Course: Digital transformations in Pharma
Nov 2018-May 2022
- **Instructor** (Part-time): Başkent University Ankara, Turkey
Title of Course: Drug Research and Production Technologies
Sep 2016-May 2018
- **Instructor** (Part-time): Faculty of Pharmacy, Azad University, Tehran, Iran
Title of Courses: ANS, Cardiovascular pharmacology, Neuropharmacology
Sep 2011-May 2013
- **Instructor:** Faculty of Medicine, Azad University, Ardebil, Iran
Title of Courses: Endocrine, Chemotherapy, antimicrobial agents
2009-2011

CURRENT RESEARCH PROJECTS:

1. Revolutionizing Healthcare with Digital Pharmacies: Exploring the Efficacy of eHealth Innovations (2023)
2. AI-Powered Drug Interaction Detection for Improved Medication Safety (2023)
3. Optimizing Pharmacy Practice through Personalized Medication Regimens: A Confluence of Pharmacogenomics and Artificial Intelligence (2023)
4. RNA Interference Therapeutics: Addressing Limitations and Charting Future Developments (2023)
5. Empowering Patient Education through Artificial Intelligence: Advancements in Medication Counseling (2023)
6. Transforming Drug Information Resources: The Impact of Artificial Intelligence-Enhanced Tools for Healthcare Professionals (2023)
7. Harnessing the Power of Artificial Intelligence in Alzheimer's Disease Research (2023)



PUBLICATIONS

- I. Hariry, R. E., et al. (2023). The concentrations of selective endocrine disruptors in milk from different lactation periods of cows.
- II. Hariry, R. E., & Barenji, R. V. (2023). Embracing Digital Technologies in the Pharmaceutical Industry. In *Control Engineering in Mechatronics* (pp. 141-165). Singapore: Springer Nature Singapore.
- III. Hariry, R. E., et al. (2023). Occurrence of *Staphylococcus aureus* in milk and antibacterial properties of some herbal extracts on milk and hospital-acquired strains, *Turkish Journal of Veterinary & Animal Sciences*, 47(1), 69-79.
- IV. Hariry, R. E., et al. (2023), Industry 4.0 in the Drug Discovery: Towards Pharma 4.0, *Industry 4.0: Technologies, Applications, and Challenges, Emerging Trends in Mechatronics*; 221-238
- V. Hariry, R. E., et al. (2022). Towards Pharma 4.0 in clinical trials: a future-orientated perspective. *Drug Discovery Today*, 27(1), 315-325.
- VI. Hariry, R. E., et al. (2020). From Industry 4.0 to Pharma 4.0. *Handbook of Smart Materials, Technologies, and Devices: Applications of Industry 4.0*, 1-22.
- VII. Hariry, R. E., et al. (2013). Carbonyl stress in aging process: role of vitamins and phytochemicals as redox regulators. *Aging and disease*, 4(5), 276.
Hariry, R. E., et al. (2013). Natural products and the aging process. *Hormone Molecular Biology and Clinical Investigation*, 16(2), 55-64.
- VIII. Hariry, R. E., et al. (2013). Evaluation of an aqueous-ethanolic extract from *Rosmarinus officinalis* (Rosemary) for its activity on the hormonal and cellular function of testes in adult male rat. *Iranian journal of pharmaceutical research: IJPR*, 12(2), 445.
- IX. Hariry, R. E. (2011). Anticonvulsant effects of hydroalcoholic extract of *Melissa officinalis* on pentylenetetrazole (PTZ) model of convulsion in mice. *Journal of Medicinal Plants Research*, 5(16), 3803-3809.



- x. Hariry, R. E. (2011). Anticonvulsant Profile of Valeriana officinalis on Pentylenetetrazole-Induced Seizure Threshold in Mice. *World Applied Sciences Journal* 2011;12(8):1291-1298.
- xI. Hariry, R. E., et al. (2013). CNS depression effects of Ketamine alone and Ketamine-Lorazepam following oral administration in dog. *Iranian Journal of Veterinary Science*.

PROCEEDINGS

- I. Hariry R.E., Filazi A. Veterinary Pharmacoeconomics. *5th National Veterinary Pharmacology and Toxicology Congress, September 2, 2016*.
- II. Hariry R.E., Cromer B., Mahdipour A.D. Comparative study of anticonvulsant activity of Valeriana officinalis, Lavandula officinalis and Melissa officinalis on pentylenetetrazole-induced seizure threshold in mice. *6th European Congress of Pharmacology (EPHAR) July 1, 2012*
- III. Hariry R.E., Samini M., Pourmand M. Effect of Mexiletine on Feline hepatic enzymes. *2nd International Congress of Veterinary Pharmacology, Iranian Veterinary Council, Iran 2011*

RESEARCH EXPERIENCE AND GRANTS

- **Research Scientist (Jan 2019-Aug 2022)**
- **Research Fellow (Sep 2017-Dec 2018)**
- **Research Assistant (Sep 2016-Aug 2017)**
Smart Engineering & Health Systems Research Group ([SEHS](#)), Hacettepe University, Ankara, Turkey

Projects:

- a. A cyber-physical system to integrate multi-omics data (Jan 2021-present).
- b. Solid Dispersion Design and Manufacturing using Hot-melt Extruder via Artificial Intelligence Methods (Mar 2021-present).
- c. Towards Pharma 4.0 in pharmaceutical digital transformation (Jan 2019-Dec 2020).
- d. Boosting participant's safety in clinical research (Jan 2017-Aug 2019).
- e. A blockchain-enabled blood cold chain management system (Sep 2016-Dec 2016).



▪ ***Research Assistant (August 2015-August 2016)***

Department of Pharmacology and Toxicology, Ankara University, Turkey

Projects:

- a. Antibiotic resistance in dairy products and alternative medicines
- b. Determination of environmental contaminants residues in dairy products by GC/MS and HPLC

▪ ***Research Assistant (September 2013-July 2015)***

Department of Pharmacology, Gazi University, Ankara, Turkey

Project:

- a. Redox regulators in the aging process

▪ ***Research Assistant (September 2011-August 2013)***

Avicenna Research Institute (ACECR), Shahid Beheshti University, Tehran, Iran

Project:

- a. Hormonal and cellular function of testes in adult male rat

▪ ***Young Researcher (August 2008 - July 2011)***

Young Researchers Club (YRC), Azad University, Ardebil, Iran

Project:

- a. Herbal medicine in epilepsy models

TEACHING PROFESSIONAL DEVELOPMENT

"Train the Trainers" Workshops, Turkey Higher Education

- Workshop Dates:
 - 2015: 3rd - 8th February, Ankara
 - 2016: 2nd - 7th February, Ankara
 - 2017: 1st - 6th February, Istanbul
 - 2018: 10th - 15th February, Ankara
- Topics Covered:
 - Learning management system Moodle
 - Gamification of lectures
 - Constructive alignment
 - Didactics
 - E-learning and Teaching



- Group Dynamics
- Didactics in small groups
- Massive open online courses
- Open education resources
- Media Didactic conception
- Video production
- Academic Leadership

SKILLS, EXPERTISE AND SOFTWARE

General:

- *Expert in administration, students managing, curriculum development, grant acquisition, admissions tutor, mentoring and delegation*
- *Strong knowledge in academic writing in different sections of research proposals and articles*
- *Strong organizational skills and team working including the ability to handle several projects at a time*
- *Worked independently and in collaboration with multidisciplinary & interdisciplinary teams*
- *General application (windows, Microsoft Office, Web and Social Skills, Graphic Design)*

Analytical Laboratory Skills

- *Chromatography Analysis:*
 - Gas Chromatography (GC), Liquid Chromatography (LC), HPLC
- *Spectroscopy Analysis*
 - UV-visible Spectroscopy (UV-vis), UV-visible Spectroscopy (UV-vis)
- *Mass Spectrometry:*
 - Gas Chromatography Mass Spectrometry (GC/MS)
- *Microscopy Analysis*
 - Optical microscopy

in-vivo & in-vitro experiments

- *Animals Models*
 - Disease induction, xenograft, inbred strains, transgenic models
- *Cell Culture techniques*
- *Microbiological Laboratory Techniques*



Experience in Data Mining, Coding and Programming Languages:

- *Python*
 - Numpy, Pandas, Sklearn
 - Notebook (Jupyter), Matplotlib, Seaborn
- *Visual Studio Code*
- *Atom*
- *Unified Modeling Language (UML)*
- *Familiar with R and Matlab*

Deep experience of Machine Learning:

Regression Analysis

- *Linear, non-Linear, Logistic*

Classification Modelling

- *KNN, Decision tree, Logistic Regression, SVM*

Clustering Algorithms

- *K-means, Hierarchical Methods, DBSCAN*

Recommender Systems

- *Content-based*
- *Collaborative filtering*

Experienced in Deep learning:

Neural Network

- *Classic Neural Networks*
- *Convolutional Neural Networks*
- *Recurrent Neural Networks (RNNs)*

LANGUAGE(S) PROFICIENCY

English: Fluent in reading, speaking, writing, and listening

Turkish: Fluent in reading, speaking, writing, and listening

Azerbaijani: Native language

Persian: Native language

