

# Curriculum Vitae



## First: Personal Information:

- **Name:** Reham Atef Mohamed Abdel Moneim
- **Current status:**
  - Head of Pharmacy Practice Department, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University
  - Assistant Vice Dean for Community Service and Environmental Development Affairs, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University
- **Date of Birth:** February 12, 1984
- **Contact details:**
- **Email:** [reham.atef@ecu.edu.eg](mailto:reham.atef@ecu.edu.eg) - [reham.atef@pharma.cu.edu.eg](mailto:reham.atef@pharma.cu.edu.eg)

## Second: Academic Credentials:

- *PhD in Pharmaceutical Sciences (Pharmacology & Toxicology) - Cairo University (2016)*

The submitted thesis for the degree was titled:

Characterization of Adenosine Receptor Signaling Pathway Involved in Modulating Cerebral Ischemia-Reperfusion Injury

- *Pharmaceutical Sciences Master's Degree (Pharmacology & Toxicology) - Cairo University (2012)*

The submitted thesis for the degree was titled:

Study of the Possible Role of Adenosine A2A Receptor (A2AR) in

## Modulating Ischemia-Reperfusion Injury in Rats

- *Bachelor of Pharmaceutical Sciences from Cairo University in 2006: Overall Grade: Excellent with Honors.*

### **Third: University Career Advancement:**

- Associate Professor and Acting Head of Pharmacy Practice Department, Faculty of Pharmacy and Drug Technology, Egyptian Chinese university (2024 – till now)
- Associate Professor at Pharmacology and Toxicology Department Faculty of Pharmacy, Cairo University (2023 – 2024).
- Lecturer at Pharmacology and Toxicology Department Faculty of Pharmacy, Cairo University (2016 – 2022).
- Assistant Lecturer at Pharmacology and Toxicology Department Faculty of Pharmacy, Cairo University (2012-2015).
- Teaching Assistant at Pharmacology and Toxicology Department Faculty of Pharmacy, Cairo University (2007-2011).

### **Fourth: Practical Experiences:**

#### 1. Teaching undergraduate Courses at Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (ECU):

- Drug interactions: for Bachelor's Degree Students in pharm D Program (2024- till now)
- Marketing & Pharmacoeconomics: for Bachelor's Degree Students in pharm D Program (2025- till now)
- Clinical Pharmacy 1: for Bachelor's Degree Students in pharm D Program (2024)

- Clinical pharmacokinetics: Intended for fourth year students in pharm D Program (2024 – till now)

2. Teaching both undergraduate and postgraduate courses at Faculty of Pharmacy, Cairo University (FOPCU):

***Undergraduate Courses***

- Pharmacology-1: Intended for undergraduate students in the Pharmaceutical Sciences Program (2016 - 2023).
- Therapeutics-2: Intended for students enrolled in the Pharmaceutical Sciences Program - Clinical Pharmacy (2016-2023).
- Toxicology: Intended for undergraduate students in the Pharmaceutical Sciences Program (2016-2018).
- Pharmacology-2: Intended for students in the Pharm D-Clinical Pharmacy program (2021-2023).
- First Aid: for Bachelor's Degree Students in Pharmaceutical Sciences Program (2017).
- Medical Course: Intended for second-year students pursuing a Bachelor's degree in Pharmaceutical Sciences (2016-2021).

***Postgraduate Courses***

- Advanced Applied Pharmacology: Intended for Pharmacology Diploma Students (2018-2022)
- Applied Toxicology: Pharmacology Diploma Students (2018-2021)
- Experimental Pharmacology: Intended for Master's Students in Pharmacology (2016-2023)

3. Teaching undergraduate Courses at Faculty of Pharmacy, Misr International University (MIU):

- Pharmacology-1: Intended for third-year students in the Pharmaceutical Sciences Program (2017, 2018).
- Pharmacology-2: Intended for third-year students enrolled in the Pharmaceutical Sciences Program (2019, 2023).

- Pathophysiology-3: Intended for third-year students enrolled in the Pharmaceutical Sciences Program (2017).

## **2. Supervision of master's and doctoral theses:**

### **Master's dissertations:**

- A study of the potential role of p38 MAPK pathway in attenuating experimentally-induced Alzheimer's disease.
- A study of the possible neuroprotective effect of 1,25- dihydroxy vitamin D3 against global cerebral ischemia-reperfusion injury in rats.
- Targeting brain insulin signaling pathway for modulation of cognitive impairment in a rat model of type II diabetes mellitus.
- Involvement of adenosine receptor(s) in modulating 3NP-induced Huntington's disease.
- A study of the potential role of brain-derived neurotrophic factor pathway in ameliorating experimentally induced Huntington's disease in rats.
- Targeting endoplasmic reticulum stress pathway for attenuation of experimentally-induced Alzheimer's disease in rats.
- The inhibitory effect of Dimethyl fumarate on ferroptosis in ketamine-induced Mania like behavior in rats.

### **Doctoral Dissertations:**

- Study of the Possible Role of Adenosine A2A Receptor In Modulating Experimentally Induced Mania in Rats.
- Possible role of cilostazol in modulating cerebral ischemia-reperfusion injury in rats.

## **4. Evaluation of Scientific theses:**

- Therapeutic Role of Melatonin in a Rat Model of Fibromyalgia, 2026

## **5. Scientific Journal Reviewer**

- Translational Health Sciences
- Biological sciences
- BMC Pharmacology and Toxicology
- BMC Complementary Medicine and Therapeutics
- Molecular Neurobiology

- Neurochemical Research
- Scientific Reports

## **Fifth: Scientific Activities, Events and Leadership:**

### **1. Leadership & Administrative Roles**

- Head of Pharmacy Practice Department, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (since 2024 – till now).
- Assistant Vice Dean for Community Service and Environmental Development Affairs, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (2025).
- Former Acting Vice Dean for Community Service and Environmental Development Affairs, Faculty of Pharmacy and Drug Technology, Egyptian Chinese University (2024 -2025).
- Assistant Vice Dean of Community Service and Environmental Development Affairs, Cairo University (2023-2024).

### **2. Activities and events beyond the department and the faculty:**

- Courses at the Faculty and Leadership Development Program (FLDC):

### **While working as a teaching assistant**

- Teaching Process Quality Standards (June 2010)
- University Work Professional Behaviours (February 2011)
- Research Ethics (March 2011)
- Proficient Presentation Skills (May 2011)
- Management of Research Teams (May 2012)
- Assessment and Student Evaluation Systems (July 2012)

### **While Working as an assistant lecturer**

- Time Management and Meetings (December 2013)

- Communication Skills across Diverse Learning Styles (February 2014)
- Utilizing Technology for Teaching (August 2014)
- Publication of Scientific Research on an International Scale (February 2015)
- Effective teaching Skills (December 2015)
- Scientific Conferences' Organization (April 2016)

**While Working as a lecturer**

- Statistical Analysis of Biomedical Experiments (July 2018)
- Strategic Planning (March 2021)
- Blended Learning Essentials (June 2022)
- Digital Transformation (March 2023)
- Critical Thinking (March 2023)
- Prevention and Combating of Administrative Corruption Methods (April 2023)

• **While Working as an associate professor**

- AI Applications in Education and Scientific Research (December 2025)
- Sustainability in University Education (December 2025)

**3. Internal activities within the department and the faculty:**

- Community Service Committee member, ECU (2025 – till now)
- Occupational Health and Safety Committee member, ECU (2025-till now)
- Crisis Management Committee member, ECU (2025-till now)
- Head of the Community Service Committee, ECU (2024 – 2025)
- Head of the Occupational Health and Safety Committee, ECU (2024-2025)
- Head of the Crisis Management Committee, ECU (2024-2025)
- Member of the Training Unit, ECU (2024 – till now)

- The Department's Quality Coordinator for Clinical Pharmacy Program, Cairo University (2022-2023)
- Safety and Crisis Management Committee Member, Cairo University (2021-2023).
- Participation in academic counselling within the Clinical Pharmacy Program, Cairo University (2015-2023).
- Control Member for the Clinical Pharmacy Program, Cairo University (2015-2023).
- Cultural and Media Activities Committee Advisor, Cairo University (2017-2023)
- Member of Quality Committee at the pharmacology and toxicology Department, Cairo University (2019-2021)
- Member of the Department's Equipment Committee, Cairo University (2020-2022).
- Secretary of the Department Council, Cairo University (2018).
- Control Member for second year students, Cairo University (2019).

#### **4. Conferences:**

- Attendee at "1<sup>st</sup> NCI Oncology Pharmacists Scientific Forum", May 2026
- Reviewer Committee member at the ECU-CRACM Joint International Pharmacy Conference, February 2026
- Organizing Committee member at the ECU-CRACM Joint International Pharmacy Conference, February 2026
- Chairperson for a scientific session entitled "Pharmacy Practice in Health Care Institutions" at the ECU-CRACM Joint International Pharmacy Conference, February 2026
- Attendee at the 12<sup>th</sup> International Conference of Faculty of Pharmacy, Cairo University, 2025
- Attendee at the First Conference of the Egyptian Cancer Support Foundation "International Comprehensive Onconexus Congress" August 2025
- Attendee at "Heart is Life Annual International Congress AIC-2025".

- Poster Presentation in 2nd World Congress on Chemistry, Rome, Italy (2019) (The Ying and Yang of adenosine A1 and A2A receptors on ERK1/2 activation in a rat model of global cerebral ischemia-reperfusion injury).
- Poster presentation in the experimental biology conference, Boston, USA (2015) (The Yin and Yang of Adenosine A1 and A2A Receptors in Global Cerebral Ischemia-Reperfusion Injury)
- Poster presentation in the experimental biology conference, San Diego, USA (2014) (Role of Adenosine A2A Receptor in Ischemia-Reperfusion Injury: Signalling to Extracellular Signal-Regulated Protein Kinase) .

### **5. Workshops:**

- Proposal writing post Docs (DAAD), Egypt (October 2012)
- Immunohistochemical technique: The Medical Technology Center for Research and Services, Alexandria University, Egypt (December 2013).
- Explorative learning and teaching 2, University Duisburg, Essen, Germany (January 2014).
- How to present scientific data (DAAD), Egypt (May 2014).
- Accreditation and Self-Evaluation Course for Higher Education Institutions; Performance Evaluation and Quality Assurance Unit, Faculty of Pharmacy - Cairo University (October 2020)
- Academic Standards and Course File Elements; Performance Evaluation and Quality Assurance Unit, Faculty of Pharmacy, Cairo University (May 2022)
- Application of competency-based learning, performance appraisal, and quality assurance in the Faculty of Pharmacy at Cairo University, Egypt (July 2022)
- Safe chemical handling in the laboratory: Best Practices and Guidelines; Community Service and Environmental Development Affairs Sector, Faculty of Pharmacy, Cairo University (November 2022)
- Specialized Course in Quality Assurance at the Performance Evaluation and Quality Assurance Unit, Faculty of Pharmacy, Cairo University (May 2023)

- Internal Audit Operations; Performance Assessment and Quality Assurance Division, Faculty of Pharmacy, Cairo University (December 2022)
- Mastering Biomedical Systematic Reviews, Research Academy On Campus, October 2024
- Systematic Review and Meta-analysis, Trust Research Center, October 2025
- Sample Size Calculation, Trust Research Center, November 2025
- Test Item Analysis Workshop, ECU, April 2026

## **Sixth: Membership and affiliation with scientific associations:**

- Member of the General Syndicate of Pharmacists of Egypt since 2006.

## **Seventh: Published Scientific Output:**

### **Before acquiring a doctorate:**

1. **Mohamed RA**, Agha AM, Nassar NN (2012), SCH58261 The selective adenosine A(2A) receptor blocker modulates ischemia-reperfusion injury following bilateral carotid occlusion: role of inflammatory mediators. *Neurochem Res* 37: 538-547, DOI: 10.1007/s11064-011-0640-x. PMID: 22071908
2. **Mohamed RA**, Agha AM, Abdel Rahman AA, Nassar NN (2016), Role of Adenosine A2A Receptor in Cerebral Ischemia-Reperfusion Injury: Signaling to Phosphorylated Extracellular Signal Regulated Protein Kinase (pERK1/2). *Neuroscience* Feb 9;314:145-59. DOI: 10.1016/j.neuroscience.2015.11.059. PMID: 26642806
3. **Atef, R.M.**, Agha, A.M., Abdel-Rhaman, AR.A., et al. (2017), The Ying and Yang of Adenosine A1 and A2A Receptors on ERK1/2 Activation in a Rat Model of Global Cerebral Ischemia-Reperfusion Injury. *Mol Neurobiol*, doi:10.1007/s12035-017-0401-1. PMID: 28120151

### **Upon attaining a doctorate:**

1. **Reham A. Mohammed** and Suzan M. Mansour (2021) Sodium hydrogen sulfide upregulates cystathionine  $\beta$ -synthase and protects striatum against 3-nitropropionic acid-induced neurotoxicity in rats. *Journal of Pharmacy and*

2. **Reham A. Mohammed**, Mohammed F.El-Yamany, Abdel A.Abdel-Rahman, Noha N.Nassar, Muhammad Y.Al-Shorbagy (2021) Role of pERK1/2-NFκB signaling in the neuroprotective effect of thalidomide against cerebral ischemia-reperfusion injury in rats. *Eur J Pharmacol* 895(3):173872. DOI: 10.1016/j.ejphar.2021.173872. PMID: 33465355. IF= 5.195.
3. Heba Nasr Shalaby, Hala Fahmy Zaki, Afaf Abd Almonim AinShoka, **Reham Atef Mohammed** (2022) Adenosine A2A Receptor Blockade Ameliorates Mania Like Symptoms in Rats: Signaling to PKCα and Akt/GSK3β/βCatenin. *Mol Neurobiol.* 59(10): 6397–6410. DOI: 10.1007/s12035-022-02977-2. PMID: 35943710. IF= 5.686.
4. Omnia S. Zaki, Noha N. Nassar, Dalaal M. Abdallah, Marwa M. Safar, **Reham A. Mohammed** (2022) Cilostazol Alleviates NLRP3 Inflammation-Induced Allodynia/Hyperalgesia in Murine Cerebral Cortex Following Transient Ischemia: Focus on TRPA1/Glutamate and Akt/Dopamine/BDNF/Nrf2 Trajectories. *Mol Neurobiol* 59: 7194–7211. DOI: 10.1007/s12035-022-03024-w. PMID: 36127628. IF= 5.686.
5. **Reham A. Mohammed**, Rabab H. Sayed, Ayman E. El-Sahar, Mohamed A. Khattab, Muhammed A. Saad (2022) Insights into the role of pERK1/2 signaling in post-cerebral ischemia-reperfusion sexual dysfunction in rats. *Eur J Pharmacol.* 933:175258. DOI: 10.1016/j.ejphar.2022.175258. PMID: 36096157. IF= 5.195.
6. Heba I. Ibrahim, Mostafa A. Rabie, **Reham M. Atef**, Noha N. Nassar (2023) Adenosine A1 receptor agonist, N6-cyclohexyl adenosine, attenuates Huntington's disease via stimulation of TrkB/PI3K/Akt/CREB/BDNF pathway in 3-nitropropionic acid rat model. *Chem Biol Interact.* 369: 110288. DOI:10.1016/j.cbi.2022.110288. PMID: 36509115. IF= 5.168.
7. Lina Y. Hassab, Samah S. Abbas, **Reham A. Mohammed**, Dalaal M. Abdallah (2023) Dimethyl fumarate abrogates striatal endoplasmic reticulum stress in experimentally induced late-stage Huntington's disease: Focus on the IRE1α/JNK and PERK/CHOP trajectories. *Front.Pharmacol.Sec. Neuropharmacology.* 14-2023. DOI: 10.3389/fphar.2023.1133863. IF=5.988 (In press)
8. Muhammad Muneeb, Suzan M. Mansour, Samira Saleh, **Reham A. Mohammed** (2022) Vitamin D and rosuvastatin alleviate type-II diabetes-induced cognitive dysfunction by modulating neuroinflammation and canonical/noncanonical Wnt/β-catenin signaling. *Plos One*, 17(11):e0277457. DOI: 10.1371/journal.pone.0277457. PMID: 36374861 IF=3.752.
9. Sherehan M. Ibrahim, Ahmed S. Kamel, Kawkab A. Ahmed, **Reham A. Mohammed**, Reham M. Essam (2024) The preferential effect of Clemastine on F3/Contactin-1/Notch-1 compared to Jagged-1/Notch-1 justifies its remyelinating effect in an experimental model of multiple sclerosis in rats.

10. May Magdy Ali, Rabab Hamed Sayed , Walaa Wadie , **Reham Atef Mohammed** (2025) Cilostazol and SB203580 combination: Targeting ER stress and p38MAPK signaling in Alzheimer's disease mouse model. Eur J Pharmacol. 1003:17789DOI10.1016/j.ejphar.2025.177897. PMID: 40609614. IF= 4.7
11. Doaa Abd El-Tawab, Mostafa A. Rabie, **Reham A. Mohamed**, Mohammed F. El-Yamany (2025) Acute calcitriol treatment alleviates cerebral ischemia reperfusion injury via activation of MasR/PI3K/Akt/CREB axis and suppression of AT-1R/NF- $\kappa$ B p65 signaling cascade. Eur J Pharmacol. 1007:178240 doi: 10.1016/j.ejphar.2025.178240. PMID: 41101680. IF= 4.7
12. **Reham A Mohammed**, Ahmed S Kamel, Merhan O Hindam, Ahmed M El-Dessouki, Hend A Hamouda, Nehal M Ramadan, Sarah S Mohamed, Riham A El-Shiekh, Nada M Kamel (2025) Acteoside as a multifunctional natural glycoside: therapeutic potential across various diseases. Inflammopharmacology doi: 10.1007/s10787-025-01811-0. PMID: 4054931 IF= 5.3
13. Marwa Matboli , Aly Elanwar, Walaa Ibrahim, Mohamed Kamel Hassan, Marwa Ali, Radwa Khaled, Shady Montaser, Sara Keshk, Hadeel Medhat, Marwa M Shafei, **Reham Atef Mohamed**, Manar Ahmed Fouad (2026) Role of SFTPD/miR-335-5p/lnc-HNRNPUL2 axis in colorectal cancer: in silico characterization and clinical validation. BMC Cancer doi: 10.1186/s12885-026-15833-6 PMID: 41882606. IF=3.4
14. Sally A. Fahim, Ahmed M. El-Dessouki<sup>2</sup>, Nada Osama, Sherif S. Abdel Mageed, Mahrous H. Mahrous ,**Reham A. Mohammed**, Ahmed S. Kamel, Kareem Abdou, Joon Hyung Yeo, Riham A. El-Shiekh, Nehal I. Rizk (2026) Natural compounds targeting inflammatory signaling and cell adhesion molecules in ischemic acute kidney injury. Archives of Pharmacal Research doi: 10.1007/s12272-026-01601-4. PMID: 42035370. IF= 7.5

## **Eighth: Textbooks:**

### **Contribution to authoring the textbooks for students at the Faculty of Pharmacy, Cairo University:**

- Pharmacology I
- Pharmacology II
- Therapeutics II

## **Ninth: Awards and Certificates of Appreciation:**

- Top Master's Thesis of 2012.

- Top PhD Dissertation of 2016.
- Honored by Cairo University for the publication of research in international scientific journals.
- Certificate of appreciation from Faculty of Pharmacy, Cairo University for organizing the undergraduate poster session in the 11<sup>th</sup> International Scientific Conference “Authenticity for Excellence in Pharmacy” 2023
- Certificate of appreciation from Faculty of Pharmacy, Cairo University for participation in awareness flyer preparation “FOPCU CAN” for the academic year 2023 – 2024
- Certificate of appreciation from Faculty of Pharmacy, Cairo University for participating in the organising committee of the 17<sup>th</sup> FOPCU Employment Fair “Way to Fifth Industrial Revolution” 2024
- Certificate of appreciation from Faculty of Pharmacy and Drug Technology, Egyptian Chinese University for participating as reviewer and organising committee member of the ECU-CRACM Joint International Pharmacy Conference” 2026