



Karema Mohammed Abu-Elfotuh soliman

كريمه محمد ابو الفتوح سليمان

Associate Professor

PROFILE

Assistant professor of Pharmacology and Toxicology Department faculty of Pharmacy AlAzher University

ACADEMIC TITLES

2023-11-01 Associate Professor

GRADUATE SUPERVISION

None

None (2020)

ADMINISTRATIVE POSITIONS

2023-09-23 - Present Director of quality assessment

INTERNATIONAL MEMBERSHIPS

• None

PUBLICATIONS (6 0)

- From bench to brain: novel thieno-oxazine hybrids as potent pleiotropic anti-Alzheimer's agents with in vivo/in vitro validation and in silico insights**
Journal of Enzyme Inhibition and Medicinal Chemistry 41 (1), 2598741, 2026 | 2026 | Cited: 1
- Therapeutic effects of Lactobacillus rhamnosus, thymol and their combination against neurotoxicity in propionic acid (PA)-induced autistic rats: insights into the role of the**
Frontiers in Pharmacology 16, 1728908, 2026 | 2026
- The protective role of Astaxanthin against the central and peripheral detrimental effects for chronic administration of sweeteners in a rat model: Involvement of multiple**
The Journal of Nutritional Biochemistry, 110309, 2026 | 2026
- Discovery of novel bicyclic and tricyclic cyclohepta [b] thiophene derivatives as multipotent AChE and BChE inhibitors, in-Vivo and in-Vitro assays, ADMET and molecular docking**
European Journal of Medicinal Chemistry 284, 117201, 2025 | 2025 | Cited: 12
- Targeting Ferroptosis/Nrf2 Pathway Ameliorates AICL3-Induced Alzheimer's Disease in Rats: Neuroprotective Effect of Morin Hydrate, Zeolite Clinoptilolite, and**
International Journal of Molecular Sciences 26 (3), 1260, 2025 | 2025 | Cited: 9
- Combining vinpocetine or cocoa with levodopa, Coenzyme Q10 and vitamin B complex mitigates rotenone-induced Parkinson's disease in rats: Impact on Nrf2/HO-1, NF-kB, AMPK/SIRT-1**
Biomedicine & Pharmacotherapy 186, 118011, 2025 | 2025 | Cited: 6
- Okra seed polysaccharides mitigate neuroinflammation and cognitive impairment via modulation of Nrf2/HO-1, HMGB1/RAGE/TLR4/NF-KB, NLRP3/Caspase-1, JAK-2/STAT-3, AMPK/SIRT1/**
International Immunopharmacology 148, 114110, 2025 | 2025 | Cited: 6

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EDUCATION

دكتوراه (01-08-2018)

Pharmacology and Toxicology

Al-Azhar University

RESEARCH METRICS

h-index (Scopus)	13
h-index (GS)	16
Citations (Scopus)	497
Citations (GS)	720
Documents (Scopus)	32
Documents (GS)	50

AWARDS

• Ideal Pharmacist from Asharqia Syndicate

PATENTS

• None

RESEARCH INTERESTS

• Neurodegenerative disease

• Hepatorenal



8. **Modulating Multiple Molecular Trajectories by Nutraceuticals and/or Physical Activity in Attention-Deficit/Hyperactivity Disorder (ADHD)-Like Behaviors in Rat Pups**
Journal of Neuroimmune Pharmacology 20 (1), 27, 2025 | 2025 | Cited: 3
9. **Unlocking Therapeutic Potential of Novel Thieno-Oxazepine Hybrids as Multi-Target Inhibitors of AChE/BChE and Evaluation Against Alzheimer's Disease: In Vivo, In Vitro ...**
Pharmaceuticals 18 (8), 1214, 2025 | 2025 | Cited: 5
10. **Lemon Juice-Assisted Green Extraction of Strawberry Enhances Neuroprotective Phytochemicals: Insights into Alzheimer's-Related Pathways**
Pharmaceuticals 18 (12), 1892, 2025 | 2025
11. **CORRIGENDUM TO "NATURAL ANTIOXIDANTS ENHANCE THE POWER OF PHYSICAL AND MENTAL ACTIVITIES VERSUS RISK FACTORS INDUCING PROGRESSION OF ALZHEIMER'S DISEASE IN RATS"[INT ...**
INTERNATIONAL IMMUNOPHARMACOLOGY, 113429, 2024 | 2024
12. **The potential anti-Alzheimer's activity of Oxalis corniculata Linn. Methanolic extract in experimental rats: Role of APOE4/LRP1, TLR4/NF-K β /NLRP3, Wnt 3/ β -catenin/GSK-3 β ...**
Journal of Ethnopharmacology 324, 117731, 2024 | 2024 | Cited: 16
13. **A mechanistic exploration of the metabolome of African mango seeds and its potential to alleviate cognitive impairment induced by high-fat/high-carbohydrate diets: Involvement ...**
Journal of Ethnopharmacology 324, 117747, 2024 | 2024 | Cited: 13
14. **Sesamol protects against monosodium glutamate-induced attention-deficit/hyperactivity disorder (ADHD) in rats' Offsprings focused on regulating the GSK3- β /Nrf2/NF-k β /Bax/Bcl-2 ...**
Azhar International Journal of Pharmaceutical and Medical Sciences 4 (1), 40-51, 2024 | 2024 | Cited: 2
15. **Neuroprotective effects of punicalagin and/or micronized zeolite clinoptilolite on manganese-induced Parkinson's disease in a rat model: Involvement of multiple pathways**
CNS Neuroscience & Therapeutics 30 (10), e70008, 2024 | 2024 | Cited: 6
16. **Corrigendum to "Natural antioxidants enhance the power of physical and mental activities versus risk factors inducing progression of Alzheimer's disease in rats"[Int ...**
International Immunopharmacology 143 (P2), 113429, 2024 | 2024
17. **In silico and in vivo analysis of the relationship between ADHD and social isolation in pups rat model: Implication of redox mechanisms, and the neuroprotective impact of ...**
Life Sciences, 122252, 2023 | 2023
18. **In silico and in vivo analysis of the relationship between ADHD and social isolation in pups rat model: Implication of redox mechanisms, and the neuroprotective impact of ...**
Life Sciences 335, 122252, 2023 | 2023 | Cited: 9
19. **The protective effects of sesamol and/or the probiotic, Lactobacillus rhamnosus, against aluminum chloride-induced neurotoxicity and hepatotoxicity in rats ...**
Frontiers in Pharmacology 14, 1208252, 2023 | 2023 | Cited: 30
20. **The consumption pattern and perception of using artificial sweeteners among the public in Tabuk region, Saudi Arabia**
Frontiers in public health 11, 1166868, 2023 | 2023 | Cited: 14
21. **Corrigendum to "Evaluating the neuroprotective activities of vinpocetine, punicalagin, niacin and vitamin E against behavioural and motor disabilities of manganese-induced ...**
Biomedicine & Pharmacotherapy 165, 115060, 2023 | 2023
22. **The Protective Effects of Sesamol and/or the Probiotic, Lactobacillus rhamnosus, against Aluminum Chloride-induced Neurotoxicity and Hepatotoxicity in Rats: Modulation of Wnt/ β ...**
Frontiers in Pharmacology 14, 1208252, 2023 | 2023 | Cited: 2
23. **The consumption pattern and perception of using artificial sweeteners among the public in Tabuk region, Saudi Arabia**
Frontiers in Public Health 11, 1166868, 2023 | 2023 | Cited: 1

24. **Punicalagin's Protective Effects on Parkinson's Progression in Socially Isolated and Socialized Rats: Insights into Multifaceted Pathway**
Pharmaceutics 15 (10), 2420, 2023 | 2023 | Cited: 12
25. **Corrigendum to" Evaluating the neuroprotective activities of vinpocetine, punicalagin, niacin and vitamin E against behavioural and motor disabilities of manganese-induced ...**
Biomedicine & pharmacotherapy= Biomedecine & pharmacotherapie 165, 115060, 2023 | 2023
26. **Anti-Alzheimer Activity of Combinations of Cocoa with Vinpocetine or Other Nutraceuticals in Rat Model: Modulation of Wnt3/ β -Catenin/GSK-3 β /Nrf2/HO-1 and PERK/CHOP/Bcl-2 Pathways**
Pharmaceutics 15 (8), 2063, 2023 | 2023 | Cited: 26
27. **Sesamol protects against monosodium glutamate-induced attention-deficit/hyperactivity disorder (ADHD) in rats' Offsprings focused on regulating the GSK3- β /Nrf2/NF- κ β /Bax/Bcl-2 ...**
Azhar International Journal of Pharmaceutical and Medical Sciences, 40-51, 2023 | 2023 | Cited: 1
28. **Corrigendum to" The protective effect of thymoquinone or/and thymol against monosodium glutamate-induced attention-deficit/hyperactivity disorder (ADHD)-like behavior in rats ...**
Biomedicine & pharmacotherapy= Biomedecine & pharmacotherapie 162, 114735, 2023 | 2023 | Cited: 1
29. **Abu-Elfotuh K, Hamdan AME, Mohammed AA, Atwa AM, Kozman MR, Ibrahim AM, Motawea SM, Selim HMRM, Tohamy STK, Nour El-Din M, Zaghlool SS, Gowifel AMH, Awny MM. (2022 ...**
Pharmaceutics, 15(12), 1554.1554 (*Pharmaceutics*, 15(12), 1554 ...), 2022 | 2022
30. **Neuroprotective Effects of Some Nutraceuticals against Manganese-Induced Parkinson's Disease in Rats: Possible Modulatory Effects on TLR4/NLRP3/NF-KB, GSK-3 β , Nrf2/HO-1, and ...**
Pharmaceutics 15 (12), 1554, 2022 | 2022 | Cited: 42
31. **Fluoxetine ameliorates Alzheimer's disease progression and prevents the exacerbation of cardiovascular dysfunction of socially isolated depressed rats through activation of ...**
International Immunopharmacology 104, 108488, 2022 | 2022 | Cited: 56
32. **Evaluating the neuroprotective activities of vinpocetine, punicalagin, niacin and vitamin E against behavioural and motor disabilities of manganese-induced Parkinson's disease ...**
Biomedicine & Pharmacotherapy 153, 113330, 2022 | 2022 | Cited: 34
33. **Neuroprotective effects of phytochemicals against aluminum chloride-induced Alzheimer's disease through ApoE4/LRP1, wnt3/ β -catenin/gsk3 β , and TLR4/NLRP3 pathways with physical ...**
Pharmaceutics 15 (8), 1008, 2022 | 2022 | Cited: 76
34. **The protective effect of thymoquinone or/and thymol against monosodium glutamate-induced attention-deficit/hyperactivity disorder (ADHD)-like behavior in rats: Modulation of ...**
Biomedicine & Pharmacotherapy 155, 113799, 2022 | 2022 | Cited: 60
35. **Neuroprotective effect of morin hydrate against attention-deficit/hyperactivity disorder (ADHD) induced by MSG and/or protein malnutrition in rat pups: Effect on oxidative ...**
Pharmaceutics 15 (8), 1012, 2022 | 2022 | Cited: 32
36. **Melatonin and zinc supplements with physical and mental activities subside neurodegeneration and hepatorenal injury induced by aluminum chloride in rats: Inclusion of GSK-3 β ...**
Neurotoxicology 91, 69-83, 2022 | 2022 | Cited: 21
37. **Natural antioxidants enhance the power of physical and mental activities versus risk factors inducing progression of Alzheimer's disease in rats**
International Immunopharmacology 96, 107729, 2021 | 2021 | Cited: 26
38. **Attenuative Effects of Fluoxetine and Triticum aestivum against Aluminum-Induced Alzheimer's Disease in Rats: The Possible Consequences on Hepatotoxicity and ...**
Molecules 26 (21), 6752, 2021 | 2021 | Cited: 22
39. **Khaled Abd-Elhaleim El Azazy M, Kamel Mohamed EA, Ismail Abo El-Fadl HM, Abd El-Razik FH, Abu-Elfotuh K. (2021) Omega-3 Rich Oils Attenuate ADHD-Like Behaviour Induced by ...**
Pak J Biol Sci. 24(8):868-880.868 (*Pak J Biol Sci.* 24(8):868-880.), *Pak J ... 2021 | 2021*
40. **Ali AA, Wahid A, Khalil MG, Mohamed AA, Kamal MM, Abu-Elfotuh K. (2021)Epigallocatechin-3-Gallate Protects against Aluminum-Induced Neurotoxicity in Rats under Social Isolation ...**
International Journal of Pharma Medicine and Biological Sciences,10:3. 103 ... 2021 | 2021

41. **Abu-Elfotuh K., Ragab GM, Salahuddin A, Jamil L, Abd Al Haleem EN. (2021) Attenuative Effects of Fluoxetine and Triticum aestivum against Aluminum-Induced Alzheimer's Disease ...**
Molecules, 26(21):6752.6752 (*Molecules*, 26(21):6752.), *Molecules*, 26(21):6752.2021, | 2021
42. **Ali AA, Khalil MG, Abd El-Atif DM, Okda T, Abdelaziz AI, Abu-Elfotuh K.,Kamal MM, Wahid A. (2021) The influence of Vinpocetine alone or in combination with Epigallocatechin-3 ...**
Archives of Gerontology and Geriatrics,98:104557 104557 (*Archives of ...*, 2021 | 2021
43. **Vinpocetine mitigates aluminum-induced cognitive impairment in socially isolated rats**
Physiology & behavior 208, 112571, 2019 | 2019 | Cited: 30
44. **Nephrotoxicity and hepatotoxicity induced by chronic aluminum exposure in rats: Impact of nutrients combination versus social isolation and protein malnutrition Arab**
J. Lab. Med 43 (2), 195-213, 2018 | 2018 | Cited: 8
45. **AliAA, Abd El-LatifDM, GadAM, ElnahasYMA,Abu-ElfotuhK. (2018)Nephrotoxicity And Hepatotoxicity Induced By Chronic Aluminium Exposure In Rats: Impact Of Nutrients Combination ...**
Arab. J. Lab. Med. 43(2):195-213. 195 (*Arab. J. Lab. Med.* 43(2):195-213 ..., 2018 | 2018
46. **Nephrotoxicity and hepatotoxicity induced by chronic aluminum exposure in rats: Impact of nutrients combination versus social isolation and protein malnutrition Arab**
J. Lab. Med 43 (2), 195-213, 2018 | 2018 | Cited: 9
47. **The role of mental and physical activities against development of Alzheimer's disease in socialized and isolated rats (TDR)**
Brain Disord Ther 6 (2), 2017 | 2017 | Cited: 5
48. **AliAA, ElnahasTM, Abd El-FattahAI, KamalMM,Abu-Elfotuh K. (2017) Comparative Study on the Influence of Different Drugs against Aluminium- induced Nephrotoxicity and ...**
International Journal of Current Research, 9(10):58684-58700 58684 ..., 2017 | 2017
49. **AliAA, Khalil MG, ElarinyHA, Abu-ElfotuhK. (2017)The Role of Mental and Physical Activities against Development of Alzheimer's disease in Socialized and Isolated Rats. Brain ...**
*Brain Disord Ther.*6(3):1-17 631 (*Brain Disord Ther.*6(3):1-17), *Brain Disord ...*, 2017 | 2017
50. **[P3–033]: COMPARATIVE STUDY ON THE IMPACT OF NUTRIENTS AND/OR PHYSICAL PLUS MENTAL ACTIVITY AGAINST THE DELETERIOUS EFFECTS OF SOCIAL ISOLATION AND PROTEIN MALNUTRITION ON THE ...**
Alzheimer's & Dementia 13 (75_Part_19), P942-P942, 2017 | 2017 | Cited: 1
51. **The Role of Mental and Physical Activities against Development of Alzheimer's Disease in Socialized and Isolated Rats (TDR)**
Brain Disord Ther 6 (240), 2, 2017 | 2017 | Cited: 4
52. **Study on social isolation as a risk factor in development of Alzheimer's disease in rats**
Brain Disord. Ther 6 (2), 2017 | 2017 | Cited: 53
53. **Modeling stages mimic Alzheimer's disease induced by different doses of aluminum in rats: focus on progression of the disease in response to time**
J Alzheimer's Parkinsonism Dementia 1 (1), 2, 2016 | 2016 | Cited: 55
54. **The potential effect of epigallocatechin-3-gallate alone or in combination with vitamin E and selenium on Alzheimer's disease induced by aluminum in rats**
J Alzheimers Parkinsonism Dement 10, 2, 2016 | 2016 | Cited: 5
55. **Ali AA, Ahmed HI,Abu-ElfotuhK. (2016)The Potential Effect of Epigallocatechin-3-gallate Alone or in Combination with Vitamin E and Selenium on Alzheimer's disease Induced by ...**
J Alzheimers Parkinsonism Dementia, 1(1) 001:1-10. 100 (*J Alzheimers ...*, 2016 | 2016
56. **AliAA, AhmedHI, KhalilMG, AlwakeelAI,Abu-Elfotuh K. (2016) Comparative study on the influence of Epigallocatechin-3-gallate and/or Coenzyme Q10 on induction of Alzheimer's ...**
J Alzheimers Dis Parkinsonism, 6(3):1-10., *J Alzheimers Dis Parkinsonism*, 6 ..., 2016 | 2016
57. **Comparative study on the influence of epigallocatechin-3-gallate and/or coenzyme Q10 against Alzheimer's disease induced by aluminium in normally-fed and protein malnourished rats**
J Alzheimers Dis Parkinsonism 6 (240), 2161-0460, 2016 | 2016 | Cited: 22

58. **Therapeutic effects of Lactobacillus rhamnosus and/or thymol against neurotoxicity in propionic acid (PA)-induced autistic rats: Insights for the role of Nrf2/HO-1, Wnt3/ β ...**
Frontiers in Pharmacology 16, 1728908, 0 | 0
59. **Unveiling the neuroprotective effects of pomegranate extract and/or physical activity against aluminum chloride-induced Alzheimer's disease in rats: Modulation of multitude ...**
Frontiers in Pharmacology 17, 1793211, 0 | 0
60. **In silico and in vivo analysis of the relationship between ADHD and social isolation in pups rat model: Implication of redox mechanisms, and the neuroprotective impact of ...**
Life sciences, 122252, 0