بيان بالتاريخ العلمي

الإســـم : كريمة محمد ابو الفتوح سليمان

تاريخ الميلاد : ١٧/ ١٩٨١/٨

الحالة الإجتماعية: متزوجة ولها أربعة أبناء

التليفون ٠١٠١٣٩٠٦٨٨٧---٠١١٤٦٢٧٢٧٦١--٠٥٥٢٥٠١٩١٧

البريد الإلكتروني: Karimasoliman.pharmg@azhar.edu.eg

العنوان العواسجة –ههيا-شرقية

المؤهلات العلمية :

- درجة البكالوريوس فى العلوم الصيدلية بتقدير عام "امتياز مع مرتبة الشرف" ٢٠٠٥ كلية الصيدلة – جامعة الأزهر .
- درجة الماجستير فى العلوم الصيدلية تخصص (فارماكولوجى) " أدوية وسموم " ٢٠١٥ كلية الصيدلة - جامعة الأزهر (بنات).
- درجة دكتوراه الفلسفة فى العلوم الصيدلية تخصص (فارماكولوجى)" أدوية وسموم " ٢٠١٨ كلية الصيدلة - جامعة الأزهر (بنات.

التدرج الوظيفي

- معيدة بقسم الأدوية و السموم - كلية الصيدلة (بنات) - جامعة الأزهر بالقاهرة من١ مارس ٢٠١٢ وحتى ٢٨ ابريل ٢٠١٦.
- مدرس مساعد بقسم الأدوية و السموم - كلية الصيدلة (بنات) - جامعة الأزهر بالقاهرة من ٢٨ ابريل ٢٠١٦ و حتى ٢٧ فبراير ٢٠١٩.
- مدرس بقسم الادوية والسموم - كلية الصيدلة (بنات) - جامعة الأزهر بالقاهرة من ٢٠١٩/٢/٢٧ و حتى ٢٠٢٢\١٢\٢٨ ومدرس بقسم الصيدلة الاكلينيكية من ٢٠٢٢\١٢\٢٨ وحتى الآن.
- مدرس بقسم الادوية والسموم - كلية الصيدلة -**جامعة العين العراقية**

الإنتاج والنشاط العلمي قبل الحصول على درجة مدرس

- ✓ رسالة الماجستير فى العلوم الصيدلية تخصص) " أدوية وسموم " ٢٠١٥ كلية الصيدلة - جامعة الأزهر (بنات).
- ✓ وعنوانها :

دراسة الحماية المحتملة لكل من ابيجاللو كاتيكن-٣- جاللات وبعض مضادات الاكسدة ضد كلوريد الالومونيوم المسبب لمرض الزهايمر فى الجرذان:التركيز على تطور المرض"

- ✓ رسالة الدكتوراة فى العلوم الصيدلية تخصص) " أدوية وسموم " ٢٠١٨ كلية الصيدلة - جامعة الأزهر (بنات).
- ✓ وعنوانها :

" أثر العزلة الاجتماعية على مرض الزهايمر: التأثير الوقائي المحتمل للفينبوستين و/أو مسحوق الاسيتوكا باستخدام العزلة المرتبطة بنموذج مرض الزهايمر فى الجرذان" .

النشاط العلمي والخبرة العلمية

أولاً : الخبرة العلمية فى مجال التدريس وأعمال الأمتحانات

- ✓ التدريس فى جميع للمقررات العملية والنظرية بقسم الادوية والسموم (لكل المراحل فى كلية الصيدلة وعددهم سبع مقررات)
- ✓ المشاركة فى تدريس مقررات الصيدلة الاكلينيكية بقسم الصيدلة الاكلينيكية خلال الفصل الدراسي الأول والثانى للعام الجامعي ٢٠٢٢/٢٠٢٣.
- ✓ عضو كنترول من ٢٠١٣ وحتى العام الحالي.

ثانياً : عدد كتابين نظرى وعدد من الكتب العملية العلمية المؤلفة والمنشورة للمراحل المختلفة فى كلية الصيدلة

ثالثاً : الأبحاث المنشورة فى المجلات العلمية

- ✓ نشر عدد من الأبحاث العلمية فى العديد من المجلات العلمية المرموقة وذلك فى المجالات الأتية:
  - نشر أكثر من عشرة أبحاث علمية فى العديد من المجلات الدولية عن مرض الزهايمر ووقف تدهور المرض فى الظروف المختلفة.
  - أبحاث خاصة وأمراض الكبد والكلى
  - وكذلك اثر سوء التغذية على مفعول الأدوية وعلى تطورالامراض
  - بالاضافة لأثر الضغوط النفسية واستخدام المواد الطبيعية والطرق المبتكرة للعلاج
  - بالاضافة لأثر الضغوط النفسية واستخدام المواد الطبيعية والطرق المبتكرة للعلاج

رابعا : المؤتمرات العلمية والدولية

١- نشرت عدد من الابحاث العلمية فى المؤتمرات العلمية والدولية ومن تلك المؤتمرات على سبيل المثال لا الحصر:

- ✓ المؤتمر الدولى الثالث عن الزهايمر (٨/٣١ -٩/٢ ٢٠١٥) بكندا (أربعة أبحاث مقبولة فى هذا المؤتمر).
- ✓ المؤتمر الدولى لجمعية الزهايمر والمنعقد بكندا من ٢٤-٢٨ يوليو٢٠١٦(بحثين مقبولين فى هذا المؤتمر).
- ✓ المؤتمر الدولى الخامس لمرض الزهايمر والخرف لعام ٢٠١٦ والمنعقد فى الفترة من ٢٩ سبتمبر- ٢ أكتوبر/ ٢٠١٦ فى لندن – انجلترا.
- ✓ المؤتمر الدولى التاسع عشر حول تلوث البيئة ومكافحة التلوث لعام ٢٠١٧ فى الفترة من ١٩ -٢٠ يناير ٢٠١٧فى لندن- انجلترا.
- ✓ المؤتمر الدولى عن الخرف وسبل رعايتة (Brain disorders and Dementia Care 2017) فى الفترة من ١٤- ٢٠١٧/٨/١٦.
- ✓ المؤتمر الدولى (AAIC- 2017) وهو المؤتمر السنوى الخاص بالجمعية الدولية لتطويرأبحاث وعلاج الزهايمر (ISTAART) .
- ✓ المؤتمر الدولى الثالث عن مرض الشلل الرعاش (باركنسون) وإضطرابات الحركة وذلك فى الفترة من ٢٥- ٢٦ سبتمبر ٢٠١٧ فى شيكاغو- الولايات المتحدة الأمريكية.

٢. حضور المؤتمرالإفتراضي الدولي الثانى في العلوم الصيدلية والطبية لكلية الصيدلة - بنات - جامعة الأزهر بتاريخ ١-٣ نوفمبر٢٠٢١ بعنوان:

Has actively participated as an instructor in Online post- conference Workshop the 2nd International Online Pharmaceutical and Medical Sciences Conference (PMS-2) that was held on the 1st – 3 rd. November 2021 Entitled: "Alzheimer's disease:

Induction, Progression, Risk Factors and Multi-target Directed Strategies for Protection and Treatment"

٣- - حضور المؤتمر الدولي الأول SU. جامعة سينا فرع القنطرة الاسماعيلية ، مصر ،و المنعقد فى ٢٠-٢١ مارس ، ٢٠٢٢ تحت عنوان:
(pharmaceutical and Bio-Medical Research (PBMR"

٤. حضورالمؤتمر العلمي الدولي الثامن لجامعة تورنتو المنعقد فى ٢٥-٢٦ فبراير٢٠٢٣ تحت عنوان:
The Beyond Sciences Initiative 8th International Remote Conference :Science & Society "

خامسا: الأعمال الإنشائية والأنشطة العملية والعلمية والتطبيقية

- ✓ **المشاركة فى تجهيز وتصنيع عدد من الأجهزة العلمية والأدوات اللازمة لدراسة علم الأدوية المؤثرة علي السلوك في حيوانات التجارب في العديد من الحالات والأمراض النفسية والعصبية والتي تم عمل نموذج لها في حيوانات التجارب للأبحاث الخاصة بدراسة سلوك الحيوانات (فارماكولوجيا السلوك - Behavioral Pharmacology**

سادساً: النشاط الاجتماعي

- ✓ **الحصول على لقب الأم الصيدلانية المثالية لعام ٢٠١٨ و لقب الصيدلى المثالي لعام ٢٠٢١ من نقابة صيادلة الشرقية.**
- ✓ **الحصول على دورات مختلفة فى التنمية البشرية.**

Karema Mohammed Abu Elfotuh

Assistant professor of Pharmacology and Toxicology Department, Faculty of Pharmacy, Al-Azhar University, Cairo, Egypt and Faculty of Pharmacy Al-Ayen Iraqi University, Thi-Qar, 64001, Iraq.

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Personal Information:

Nationality: Egyptian

Marital status: Married

Date of Birth: 17/8/1981

Qualifications:

1. **Bachelor's degree in Pharmacy**, Al-Azhar University "class of 2005" Grade: Excellent with the certificate of honor.

2. Master's degree in pharmacology, Al-Azhar University 2015, the title of thesis was "**The possible protective effect of both Epigallocatechin-3- gallate and some antioxidants against Aluminum chloride-induced Alzheimer's disease in rats: focus on disease progression**".

3. Doctor of Philosophy degree, Al-Azhar university 2018, the title of thesis was "**Impact of social isolation on Alzheimer's disease: The possible protective effect of Vinpocetine and /or Acticoa powder using isolation - associated Alzheimer's disease model in rat**".

Experience and employment record

- Working as lecturer in Pharmacology and Toxicology department -Faculty of Pharmacy, Al-Azhar University**, Cairo, Egypt** since 2\2019 till now.
- Working as lecturer assistant in Pharmacology and Toxicology department -Faculty of Pharmacy, Al-Azhar University**, Cairo, Egypt** since 2015 to 2018.
- Working as Demonstrator in Pharmacology and Toxicology department -Faculty of Pharmacy, Al-Azhar University**, Cairo, Egypt** since 3\2012 to 2015.
- Working as pharmacist at **Hehia hospital pharmacy**, Egypt since 2006 till 2012.

Publication:

I- Conferences Publication List: (Oral and Poster)

I- 3rd International Conference on Alzheimer's Disease & Dementia August 31 - September 02, 2015 Toronto, Canada: http://alzheimers-dementia.conferenceseries.com/2015/

1. Azza A Ali, Hebatalla I Ahmed, Mona G. Khalil , Asmaa I Alwakeel, **karema Abu-Elfotuh**

Comparative study on the influence of Epigallocatechin-3-gallate and/or Coenzyme Q10 on induction of Alzheimer's disease in normally-fed and protein malnourished rats. Proceedings of the 3rd International Conference on Alzheimer's Disease & Dementia. August 31 - September 02, 2015 Toronto, Canada. J Alzheimers Dis Parkinsonism, 5(3): 96, 2015. doi: 10.4172/2161-0460.C1.016. (Poster).

2. Azza A Ali , Hebatalla I Ahmed**, karema Abu-Elfotuh**

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. (Proceedings of the 3rd International Conference on Alzheimer's Disease & Dementia. August 31 - September 02, 2015 Toronto, Canada. J Alzheimers Dis Parkinsonism, 5(3): 95, 2015. doi: 10.4172/2161-0460.C1.016. (Poster)

3. Azza A Ali , Hebatalla I Ahmed, **karema Abu-Elfotuh**

Modeling stages of Alzheimer's disease induced by different doses of Aluminum in rats: Focus on progression of the disease in response to time. Proceedings of the 3rd International Conference on Alzheimer's Disease & Dementia. August 31 - September 02, 2015 Toronto, Canada. J Alzheimers Dis Parkinsonism, 5(3): 94, 2015. doi: 10.4172/2161-0460.C1.016. (Poster)

II- 5th International Conference on Alzheimer's Disease & Dementia SEPTEMBER 29, 2016 London, United Kingdom. https://www.omicsonline.org/http://alzheimers-dementia.conferenceseries.com/2016/

1. Azza A Ali , Mona G Khalil, Hemat A Elariny, **karema Abu-Elfotuh**

Study on Social Isolation as a Risk Factor in Alzheimer's disease. Proceedings of the 5th International Conference on Alzheimer's Disease & Dementia. September 29 - October 01, 2016 London, UK. J Alzheimers Dis Parkinsonism, 6(5):85 (Suppl), 2016. doi: 10.4172/2161-0460.C1.022 (Poster)

2. Azza A Ali , Mona G Khalil, Hemat A Elariny, **karema Abu-Elfotuh**

The Role of Mental and Physical Activities against Development of Alzheimer's disease in Socialized and Isolated Rats. Proceedings of the 5th International Conference on Alzheimer's Disease & Dementia. September 29 - October 01, 2016 London, UK. J Alzheimers Dis Parkinsonism, 6(5):84 (Suppl), 2016. doi: 10.4172/2161-0460.C1.022 (Poster)

III- ICEPPC 2017 : 19th International Conference on Environmental Pollution and Pollution Control held in London, January, 19-20, 2017: https://waset.org/conference/2017/01/london/ICANAT/program?forceTentative=1

(Gained the Best Presentation Award)

1. Azza A. Ali, Toqa M. Elnahhas, Abeer I. Abd El-Fattah, Mona M. Kamal, **Karema Abu-Elfotuh**

Comparative Study on the Influence of Different Drugs against Aluminium- Induced Nephrotoxicity and Hepatotoxicity in Rats. Proceedings of the 19th International Conference on Environmental Pollution and Pollution Control, International Scholarly and Scientific Research & Innovation. International Journal of Environmental and Ecological Engineering Vol: 4, No: 1, 2017. (Oral, The Best Presentation Award)

2**. Azza A. Ali, Asmaa Abdelaty, Mona G. Khalil, Mona M. Kamal, Karema Abu-Elfotuh**

Influence of Protein Malnutrition and Different Stressful Conditions on Aluminum-Induced Neurotoxicity in Rats: Focus on the Possible Protection Using Epigallocatechin-3-Gallate. Proceedings of the 19th International Conference on Environmental Pollution and Pollution Control, International Scholarly and Scientific Research & Innovation. International Journal of Environmental and Ecological Engineering Vol: 4, No: 1, 2017. (Oral)

3. Azza A. Ali, Abeer I. Abd El-Fattah, Shaimaa S. Hussein, Hanan A. Abd El-Samea, **Karema Abu-Elfotuh**

The Potential Role of Some Nutrients and Drugs in Providing Protection from Neurotoxicity Induced by Aluminium in Rats. Proceedings of the 19th International Conference on Environmental Pollution and Pollution Control, International Scholarly and Scientific Research & Innovation. International Journal of Environmental and Ecological Engineering Vol: 4, No: 1, 2017. (Oral)

4. Azza A. Ali, Doaa M. Abd El-Latif, Amany M. Gad, Yasser M. A. Elnahas, **Karema Abu-Elfotuh**

Nephrotoxicity and Hepatotoxicity Induced by Chronic Aluminium Exposure in Rats: Impact of Nutrients Combination versus Social Isolation and Protein Malnutrition. Proceedings of the 19th International Conference on Environmental Pollution and Pollution Control, International Scholarly and Scientific Research & Innovation. International Journal of Environmental and Ecological Engineering Vol: 4, No: 1, 2017. (Oral)

IV- Alzheimer's Association International Conferences (AAIC) July 16–21, 2017. Annual Conference, London, UK: http://www.alz.org/aaic/

(All Accepted for Poster Presentation)

1. Azza A. Ali, Shereen S. El Shaer, Amany M. Gad, **karema Abu-Elfotuh**

Impact of Physical and Mental Activities versus Protein Malnutrition associated with Social Isolation during induction and progression of Alzheimer's disease in Rats.

2. Azza A. Ali, Doaa M. Abd El-latif, Engy M. El Morsy, **karema Abu-Elfotuh**

The Role of Epigallocatechin-3-gallate, Coenzyme Q10 and Vinpocetine combination in providing Protection Together with Mental and Physical Activities against Alzheimer's disease Associated Risk Factors in Rats.

3. Azza A. Ali, Mona G. Khalil , Shaimaa S. Hussein, Asmaa Abdelaty, Shaimaa M. Sabry, **karema Abu-Elfotuh**

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 development of Alzheimer's disease in Rats.

4. Azza A. Ali, Hebatalla I. Ahmed, Sahar A. Khaleel, **karema Abu-Elfotuh**

Comparative Study on the Influence of Cocoa and/or Vinpocetine against Development of Alzheimer's disease in Rats: Focus on Social Isolation Associated the Disease Progression.

5. Azza A. Ali, Abeer I. Abd El-Fattah, Hemat A. Elariny, **karema Abu-Elfotuh**

Enhancing the Power of Physical and Mental Activities versus Risk Factors Inducing Progression of Alzheimer's disease in Rats: Impact of Epigallocatechin-3-gallate in Combination with Vitamin E, C and Selenium.

6. Azza A. Ali, Fatma-Elzahraa M. Hassan, Toqa M. Elnahhas, **karema Abu-Elfotuh,** Essam Ezzeldin

Impact of Alzheimer's Disease Development on the Heart: Focus on Influence of Physical and Mental Activity Against the Deleterious Effect of Social Isolation and Protein Malnutrition.

V- **7th International Conference on Dementia & Care Practice (August 14-16, 2017 at Toronto, Canada):** http://dementiacare.alliedacademies.com/organizing-committee

1. Azza A. Ali, Mona M. Kamal, Asmaa Saleh, Hanan A. Abd El-Samea, **karema Abu-Elfotuh**

The Possible Interaction between Social Isolation and Protein Malnutrition on Induction and Progression of Alzheimer's disease in Rats. (Accepted for Poster Presentation)

2. Azza A. Ali, Mona M. Kamal, Mona G Khalil, Doaa M. Abd El-latif, **karema Abu-Elfotuh**

Comparative Study on the Influence of Vinpocetine Alone or in Combination with different drugs against Aluminum-induced Alzheimer's disease in Rats. (Accepted for Poster Presentation)

VI- 3rd International Conference on Parkinson's Disease and Movement Disorders (September 25-26, 2017 Chicago, USA)

1. Azza A. Ali, Toqa M. Elnahhas, **karema Abu-Elfotuh,** Essam Ezzeldin

Comparative Study on the Potential Role of Cocoa, Epigallocatechin-3-gallate, Coenzyme Q10 and Their Combinations against Manganese-Induced Parkinsonian Like syndrome in Rats. Proceedings of the 3rd International Conference on Parkinson's Disease and Movement Disorders (September 25-26, 2017 Chicago, USA): (poster)

VII- **5th International Conference on Parkinson's disease and Movement ...**_NewYork-NY-359545_Oct 20, 2018

1. Azza A. Ali, Mona G. Khalil , Asmaa Abdelaty, Aya Y. Gawish, Manal M. Abd-Elhady, **Karema Abu-Elfotuh**

Protection against Development of Parkinsonism in Rats: Impact of Nutrients versus the Deleterious Effects of Manganese

2. Azza A. Ali, Mona G. Khalil , Mona M. Kamal, Soha O. Hassanin, Manal M. Abd-Elhady, **Karema Abu-Elfotuh**

Comparison Between the Efficacy of Vinpocetine, Pomegranate, Vitamin B complex, Vitamin E in Providing Protection Against Parkinsonian Syndrome Induced by Manganese in Rats

3. Azza A. Ali, Mona G. Khalil , Shimaa A. Ali, Ahmed Wahid, Hemat A. Elariny, **Karema Abu-Elfotuh**

Comparison between the Efficacies of Pomegranate with Different Combinations against Development of Parkinsonism using Rotenone Model in Rats

II- Papers : (International Publications and Websites)

1. Ali AA, Ahmed HI, Khalil MG, Alwakeel AI, **Abu-Elfotuh K**. (**2016**) Comparative study on the influence of Epigallocatechin-3-gallate and/or Coenzyme Q10 on induction of Alzheimer's disease in normally-fed and protein malnourished rats. *J Alzheimers Dis Parkinsonism*, 6(3):1-10.

2. Ali AA, Ahmed HI, **Abu-Elfotuh K.** (**2016**) 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 Dementia*, 1(1) 001:1-10.

3. Ali AA, Ahmed HI, **Abu-Elfotuh K. (2016)** 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 Alzheimers Parkinsonism Dementia*, 1(1) 002:1-11.

4. Ali AA, Khalil MG, Elariny HA, **Abu-Elfotuh K**. (**2016**) Study on Social Isolation as a Risk Factor in Alzheimer's disease. *Brain Disorders & Therapy Journal*

5. Ali AA, Khalil MG, Elariny HA, **Abu-Elfotuh K**. (**2017**) The Role of Mental and Physical Activities against Development of Alzheimer's disease in Socialized and Isolated Rats. *Brain Disord Ther*. 6(3):1-17

6. Ali AA, Elnahhas TM, Abd El-Fattah AI, Kamal MM, **Abu-Elfotuh K**. (**2017**) Comparative Study on the Influence of Different Drugs against Aluminium- induced Nephrotoxicity and Hepatotoxicity in Rats. *International Journal of Current Research*, 9(10):58684-58700

7- Ali AA, Abd El-Latif DM, Gad AM, Elnahas YMA, **Abu-Elfotuh K**. (**2018**) Nephrotoxicity And Hepatotoxicity Induced By Chronic Aluminium Exposure In Rats: Impact Of Nutrients Combination Versus Social Isolation And Protein Malnutrition . *Arab. J. Lab. Med.* 43(2):195-213 .

8- Ali AA, Ahmed HI, Khaleel SA, **Abu-Elfotuh K**. (**2019**) Vinpocetine mitigates aluminum-induced cognitive impairment in socially isolated rats. *Physiology & Behavior*, 208:112571

9. Ali AA, Abd El-Fattah AI, **Abu-Elfotuh K**, Elariny HA. (**2021**) 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.

10. Ali AA, Khalil MG, Abd El-latif DM, Okda T, Abdelaziz AI, **Abu-Elfotuh K.,** Kamal MM, Wahid A. (**2021**) The influence of Vinpocetine alone or in combination with Epigallocatechin-3-gallate, Coenzyme COQ10, Vitamin E and Selenium as a potential neuroprotective combination against Aluminium-induced Alzheimer's disease in Wistar Albino Rats. *Archives of Gerontology and Geriatrics*, 98:104557.

11. 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 in Rats: The Possible Consequences on Hepatotoxicity and Nephrotoxicity. *Molecules*, 26(21):6752.

12. 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, Electric Shock and Inadequate Protein Malnutrition. *International Journal of Pharma Medicine and Biological Sciences*, 10:3.

13. 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 Dietary Monosodium Glutamate in Rats. *Pak J Biol Sci.* 24(8):868-880.

14- Abu-Elfotuh K, Hussein FH, Abbas AN, Al-Rekabi MD, Barghash SS, Zaghlool SS, El-Emam SZ. (**2022**) Melatonin and zinc supplements with physical and mental activities subside neurodegeneration and hepatorenal injury induced by aluminum chloride in rats: Inclusion of GSK-3β-Wnt/β-catenin signaling pathway. *Neurotoxicology*, 91:69-83.

15- Abu-Elfotuh K, Al-Najjar AH, Mohammed AA, Aboutaleb AS, Badawi GA. (**2022**) Fluoxetine ameliorates Alzheimer's disease progression and prevents the exacerbation of cardiovascular dysfunction of socially isolated depressed rats through activation of Nrf2/HO-1 and hindering TLR4/NLRP3 inflammasome signaling pathway. *Int Immunopharmacol.*, 104:108488.

16- Abu-Elfotuh, K., Abdel-Sattar, S. A., Abbas, A. N., Mahran, Y. F., Alshanwani, A. R., Hamdan, A. M. E., ... & El-Din, M. N**. (2022)**. The protective effect of thymoquinone or/and thymol against monosodium glutamate-induced attention-deficit/hyperactivity disorder (ADHD)-like behavior in rats: Modulation of Nrf2/HO-1, TLR4/NF-κB/NLRP3/caspase-1 and Wnt/β-Catenin signaling pathways in rat model. Biomedicine & Pharmacotherapy, 155, 113799.

17- Hamdan AM, Alharthi FHJ, Alanazi AH, El-Emam SZ, Zaghloo SS, Metwally K, Albalawi SA, Abdu YS, Aly OM, Salem HA, Abd Elmageed ZY, **Abu-Elfotuh K**. **(2022)** Neuroprotective effects of phytochemicals against Aluminum chloride-induced Alzheimer's disease through ApoE4/LRP1, Wnt3/β-catenin/GSK3β, and TLR4/NLRP3 pathways with physical and mental activities in a rat model. Pharmaceuticals 15(8),1008

18- Salem HA, Elsherbiny N, Alzahrani S, Alshareef HM, Abd Elmageed ZY, Ajwah SM, Hamdan AM, Abdou YS, Galal OO, El Azazy MKA, **Abu-Elfotuh K. (2022)** Neuroprotective effect of Morin hydrate against attention-deficit / hyperactivity disorder (ADHD) induced by MSG and/or protein malnutrition in rat pups: Effect on oxidative/monoamines/inflammatory balance and apoptosis. Pharmaceuticals 15(8), 1012

19- Abu-Elfotuh k, Hamdan A, Abbas AN, Al Ahmare ATS, Elewa MAF, Ali AA, Othman M, Kamal MM, Hassan FAM, Khalil MG, El-Sisi AM, Abdel Hady MMM, El Azazy MKA, Awny MM, Wahid A**. (2022)** Evaluating the neuroprotective activities of vinpocetine, punicalagin, niacin and vitamin E against behavioural and motor disabilities of Manganese-induced Parkinson's disease in Sprague Dawley rats. Biomed Pharmacother 153:113330.

20- Fekry, N., Abd Elmaqsoud, E. S., Elewa, H. A., Abdel Rhman, M., **Abu-Elfotuh, K**., & Zalat, Z. A. K**. (2023)**. Direct Acting Anti-Viral Therapy, and Potential Increase in the Incidence of Hepato-Cellular Carcinoma in Cirrhotic Patients With Hepatitis C Virus. Journal of Medical and Life Science, 5(1), 31-42.

21- Alharthi, S. A., Alaisayi, K. H. A., Alalawi, L. Y. S., Alamri, R. O. S., Abu-Elfotuh, K., Alenazi, T. S., ... & Kozman, M. R**. (2023).** The consumption pattern and perception of using artificial sweeteners among the public in Tabuk region, Saudi Arabia. Frontiers in Public Health, 11, 1166868.

22- Abu-Elfotuh, K., Tolba, A. M., Hussein, F. H., Hamdan, A. M., Rabeh, M. A., Alshahri, S. A., ... & Mahran, Y. F. (2023). Anti-Alzheimer Activity of Combinations of Cocoa with Vinpocetine or

Other Nutraceuticals in Rat Model: Modulation of Wnt3/β-Catenin/GSK-3β/Nrf2/HO-1 and PERK/CHOP/Bcl-2 Pathways. Pharmaceutics, 15(8), 2063.

23-Abu-Elfotuh, K., Selim, H. M., Riad, O. K. M., Hamdan, A. M., Hassanin, S. O., Sharif, A. F., ... & El-Din, M. N. **(2023)**. The Protective Effects of Sesamol and/or the Probiotic, Lactobacillus rhamnosus, against Aluminum Chloride-induced Neurotoxicity and Hepatotoxicity in Rats: Modulation of Wnt/β-catenin/GSK-3β, JAK-2/STAT-3, PPAR-γ, Inflammatory and Apoptotic Pathways. Frontiers in Pharmacology, 14, 1208252.

24- Salem, H. A., **Abu-Elfotuh, K**., Alzahrani, S., Rizk, N. I., Ali, H. S., Elsherbiny, N & Abd Elmageed, Z. Y. **(2023)**. Punicalagin's Protective Effects on Parkinson's Progression in Socially Isolated and Socialized Rats: Insights into Multifaceted Pathway. Pharmaceutics, 15(10), 2420.

25- Abu-Elfotuh, K., Darwish, A., Elsanhory, H. M., Alharthi, H. H., Hamdan, A. M., Hamdan, A. M., ... & Reda, E. **(2023)**. 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 Punicalagin. *Life Sciences*, *335*, 122252.

26- Zedan, R. S., Awny, M. M., **Abu-Elfotuh, K**., & Ali, A. A. **(2024)**. Sesamol protects against monosodium glutamate-induced attention-deficit/hyperactivity disorder (ADHD) in rats' Offsprings focused on regulating the GSK3-β/Nrf2/NF-kβ/Bax/Bcl-2 signaling pathways. Azhar International Journal of Pharmaceutical and Medical Sciences, 4(1), 40-51.

27- Khalil, A. M., Mukhtar, A. M., Lotfy, A. M., **Abu EL-Fotuh, K**., & Zalat, Z. A. **(2024).** The hypotension caused by intravenous paracetamol in septic shock patients: A single center placebo controlled randomized study. Azhar International Journal of Pharmaceutical and Medical Sciences, 4(1), 189-195.

28**- Abu-Elfotuh, K**., Hamdan, A. M., Mohamed, S. A., Bakr, R. O., Ahmed, A. H., Atwa, A. M., ... & Salem, M. A. **(2024**). The potential anti-Alzheimer's activity of Oxalis corniculata Linn. Methanolic extract in experimental rats: Role of APOE4/LRP1, TLR4/NF-κβ/NLRP3, Wnt 3/β-catenin/GSK-3β, autophagy and apoptotic cues. *Journal of Ethnopharmacology*, *324*, 117731.

29- Hassan, Y. R., El-Shiekh, R. A., El Hefnawy, H. M., Mohamed, O. G., **Abu-Elfotuh, K**., Hamdan, A. M., ... & Michael, C. G. **(2024)**. 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 of PI3K/AKT/GSK-3β/CREB, PERK/CHOP/Bcl-2, and AMPK/SIRT-1/mTOR Axes. *Journal of Ethnopharmacology*, *324*, 117747.

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