

Maha Abd ElFatah ElBeltagy

Associated professor of Anatomy

Faculty of Medicine. The University of Jordan

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YouTube Channel:

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Google Scholar :

<https://scholar.google.com/citations?hl=ar&user=Dvivz8UAAAAJ>

**Profile:**

A bilingual, enthusiastic, self-motivated individual can work under minimum supervision to beat deadlines. I am familiar with integrated system as I am teaching anatomy by system since 2011. I have extensive experience in communication skills in academic environment gained from a background in teaching and dealing with students and academic staff in different countries.

The overarching goal of my research is to investigate the effect of chemotherapy, Noradrenaline reuptake inhibitors on memory and neurogenesis of adult male rat hippocampus. My work has practical applications in applying antagonists such as antidepressants of chemobrain phenomenon in patients under chemotherapy to improve their memory and cognition and allow them better life and Use of Atomoxetine as an adjuvant therapy with chemotherapeutics to improve concentration and memory in patients under chemotherapy.

1- Education :

- **February 2007 : PhD neuroscience.**
October 2010 : University of Nottingham.UK
- **October2002: Master of Anatomy**
October 2004 : Faculty of Medicine, Menoufia University, Egypt.
- **September 1993 : Bachelor of Medicine, Bachelor of Surgery**
December 1999: Faculty of Medicine, Menoufiya University, Egypt

2- Work History :

September 2019- *Associate professor of Anatomy*

Current Faculty of Medicine. The Jordan University
Amman . Jordan

September 2016- *Assistant professor of Anatomy*

September 2019 Faculty of Medicine. The Jordan University
Amman . Jordan

September 2011- *Assistant professor of Anatomy*

September 2016 Faculty of Medicine. Tabuk University. KSA.

October 2010- *Lecturer of Anatomy.*

September 2011 Faculty of Medicine.Menoufia University. Egypt.

February 2007- *PhD student*

October 2010 University of Nottingham.UK

March 2005 - *Assistant Lecturer of Anatomy.*

February 2007 Faculty of Medicine.Menoufia University. Egypt.

January 2002 - Demonstrator of Anatomy.

March 2005 Faculty of Medicine.Menoufia University. Egypt.

March 2001 - General Practitioner

January 2002 Ministry of Health Egypt.

3- Special interests and research fields:

- Neuroscience
- Anatomy and embryology sciences
- Molecular Biology
- Cognitive and neurogenesis fields
- Chemotherapy and antidepressant.

4- Grants:

A grant to study PhD from ministry of higher education. Egypt.

A grant from Dean of scientific research, The university of Jordan.

5- Conferences:

- 1- Scientific day of medical school, Faculty of medicine, The University of Jordan, April 2025.
- 2- IANR 12 CONFERENCE, Amman, Jordan 2-5 October, 2020.Oral presentation.
- 3-The Combined 16th Pan Arab Union of Neurological Societies (PAUNS) .19-22 September 2018 .Amman-Jordan)
3. The 3rd international conference of the school of medicine, University of Jordan. "ASCME 2016", 5th to 7th October 2016, The University Jordan-Amman .
4. ICDDT (International conference of drug discovery and therapy) .Dubai 10- 12/2/2014, oral presenter and session chairman.
5. Neurogenesis structure and function ,Fraunhofer Munich. Germany. 27/5/2010-29/05/2010.Poster presentation .
6. ISDN conference in Monterey, CA, USA from 31-5-08 to 1-6-08. Stem cells on the brain, Institute of Neuroscience Newcastle university conference 13/11/2007.

7. Abcam Neuroscience conference London .May 2007.
8. 13th international scientific congress of Egyptian Medical Syndicate, entitled "Major Health problems in Egypt" Jan. 2004.
9. 39th annual conference of the Arab medical union, entitled "Preventive Medicine" March 2003.
10. 4th annual scientific congress of Menoufyia Medical Syndicate, entitled "Early Detection of Malignancy" Sept. 2002.

6- Publications :

- 1-Master thesis entitled (effect of pesticides and the protective effect of the antioxidants on chromosomes), 2004.
- 2-PhD thesis entitled (Effect of 5-Fluorouracil chemotherapy and the potential protective effect of the SSRI antidepressant Fluoxetine on memory and neurogenesis in the adult hippocampus, 2010.
- 3-ElBeltagy M, Mustafa S, Umka J, Lyons L, Salman A, Chur-yoe GT, Bhalla N, Bennett G, Wigmore PM . 2010 . Fluoxetine improves the memory deficits caused by the chemotherapy agent 5- fluorouracil. Behavioral Brain Res. Mar 17;208(1):112-7.
- 4-Umka J, Mustafa S, ElBeltagy M, Thorpe A, Latif L, Bennett G, Wigmore PM .2010 .Valproic acid reduces spatial working memory and cell proliferation in the hippocampus., Neuroscience. Mar 10; 166(1):15-22.
- 5-Peter M. Wigmore, Sarah Mustafa, Maha El-Beltagy, Laura Lyons, Jariya Umka and Geoff Bennett. 2010 .Cancer Chemotherapy-Related Cognitive Impairment. Effects of 5-Fu .Madam Curie Landes Bioscience Database, From the book Chemo Fog: Cancer Chemotherapy-Related Cognitive Impairment.
- 6-Laura Lyons, Maha ELBeltagy, Geoffrey Bennett, Peter Wigmore.2011.The Effects of Cyclophosphamide on Hippocampal Cell Proliferation and Spatial Working Memory in Rat. PLOS one, ;6(6):e21445

- 7-Laura Lyons, Maha ElBeltagy, Jariya Umka, Rachel Markwick, Carla Startin, Geoffrey Bennett, Peter Wigmore 2011. Fluoxetine reverses the memory impairment and reduction in proliferation and survival of hippocampal cells caused by methotrexate chemotherapy.. Psychopharmacology, May;215(1):105-15.
- 8-Laura Lyons, Maha ELBeltagy, Geoffrey Bennett, Peter Wigmore .2012 .Fluoxetine Counteracts the Cognitive and Cellular Effects of 5-Fluorouracil in the Rat Hippocampus by a Mechanism of Prevention Rather than Recovery. PLOS one January, 7(1)
- 9-Maha ELBeltagy, Sarah Mustafa, Jariya Umka, Laura Lyons, Ahmed Salman, Katherine Dormon, Charlotte Allcock, Geoffrey Bennett and Peter Wigmore. 2012.The effect of 5-Fluorouracil on the long term survival and proliferation of neural precursors in the rat hippocampus. 2012, Brain research Bulletin. Aug 1;88(5):514-8.
- 10- Manal Mohammed ALmashori , Bayan Ibrahim ALaradi , Lamis majed ALtoairqi ,Fatimah Ali Swead ,Marwan Fahad ALtemani , Maha ELBeltagy , Yasin Ibrahim , Hyder Osman Mirghani 2018 .Knowledge, Attitude and Practice of Doctors and Medical Students towards Stem Cell Use in The Management of Diabetes Mellitus . The Egyptian Journal of Hospital Medicine71 (6), 3308-3313
- 11- Ahmed S Salman, Maha A ElBeltagy, Hesham A Khairy, Naglaa I Sarhan. 2018 .Ginger and vitamin C as protective agents against oxidative stress and liver injury induced by methyl parathion. European journal of anatomy. 22 (4): 335-343
- 12- Maha El Beltagy, Ahmed Salman, Amjad Shatarat, Maram Mohsen, Doaa Qattan, Hanan Jafar. 2019 .Atomoxetine enhances memory and proliferation in adult male rat hippocampus .European journal of anatomy. 23(4) : 243-251
- 13- Maha ELBeltagy ,Wael El Kholy, Ahmed Salman .2019 .Effect of Atherosclerosis and the Protective Effect of the Antioxidant Vitamin E on the Rabbit Cerebellum. Microscopy (Oxf) . Oct 9;68(5):369-378

- 14- Ahmed Salman ,Atef Ibrahim Shabana ,Dalia Abdo El-Ghazouly ,Maha ELBeltagy. 2019 .Protective effect of Glucosamine and Risedronate (alone or in combination) against osteoarthritic changes in rat experimental model of immobilised knee. *Anatomy and Cell Biology* . Dec;52(4):498
- 15- Duaa Al Qattan Amjad Shatarat Loai Alzghoul Aya Khaled Ala Abdallah Maha ELBeltagy . 2019 . Gender Differences in the Rat Corpus Callosum: an ultrastructure study. *Anatomia Histologia Embryologia*. Sep;48(5):437-443.
- 16- Islam Al-tarawneh, Amjad Shatarat, Maisa ALqadah , Darwish H. Badran and Maha Elbeltagy .2019 .Spasmolytic Effects of Salvia Triloba Leaves Extract on Smooth Muscles of duodenum in Rats. *Studies on Ethno-Medicine*. 13(3): 169-174
- 17- Amjad Shatarat ,Loai Alzghoul ,Duaa Al Qattan, Maha ELBeltagy .2020.Anatomical and Ultrastructural Sex Differences in Mean Diameter and Thickness of Myelinated Axons in Adult Rat Corpus Callosum. *Int. J. Morphol.*,38(2):505-512.
- 18- Ahmed Salman, Maha El Beltagy, Amjad Shatarat, Loai Alzghoul, Liyana Oweis, Nada Al Antary, Safa Al Fegie, Maram Mohsen, Salma Salman.2020. Atomoxetine improves hippocampal cell proliferation but not memory in Doxorubicin-treated adult male rats. *Veterinary Medicine and Science*. Apr 27.
- 19- Ahmed Salman ,Dalia Abdo El-Ghazouly ,Maha ELBeltagy.2020. Role of ascorbic acid versus silymarin in amelioration of hepatotoxicity induced by acrylamide in adult male albino rats: histological and immunohistochemical study. *International Journal of Morphology*.38 (6).
- 20- Maha Elbeltagy, Duha A. Atieh, Basil H. Abdin, Kenan A. S-Yasin, Ahmad M. Abdulraheem, Doaa Qattan, Ahmed salman. 2021. Memantine improves memory and hippocampal proliferation in adult male rats. *Folia Neuropathol* 2021; 59 (2): 143-151.

- 21- Elbeltagy, M., Khraisat, B., AlZoubi, L., Hmoud, L., AlJeady, A., Yousef, M., & Salman, A. (2024). The neuroprotective effects of Piracetam on cisplatin-induced cognitive decline. *International Journal of Neuroscience*, 1–8.
- 22- Elbeltagy Maha , Al-Horani RA, Alsharaeh TS, Alkhatib AH, Alawaisheh I, Abuhani AA, Salman A. The Counter Effect of Exercise on Cisplatin-Induced Cognitive and Proliferation Impairments. *Cureus*. 2024 Jan 18;16(1).
- 23- Elbeltagy Maha, Mansour S, Zayed JA, Alrafayia MAB, Alhesa A, Salman A. Fluvoxamine Ameliorates the Damage to the Neuro-Behavioral Status of Rats Caused by the Administration of Valproic Acid by Preventing Cognitive Memory Deficits and Decreased Hippocampal Cellular Proliferation. *Cureus*. 2024 Apr 19;16(4).
- 24- Qutifan, Shahda; Saleh, Tareqb; Abu Shahin, Nisreenc; ELBeltagy, Mahaa,d; Obeidat, Fatimahc; Qattan, Duaac; Kalbounah, Hebaa; Barakat, Noor A.e; Alsalem, Mohammada. Melatonin mitigates cisplatin-induced cognitive impairment in rats and improves hippocampal dendritic spine density. *NeuroReport* 35(10):p 657-663, July 01, 2024.

7- professional and administration memberships:

- a. Member of the accreditation unit, Faculty of Medicine, the University of Jordan.
- b. Member of faculty council. Faculty of Medicine, University of Jordan. Jordan.
- c. Member of academic consultation unit Faculty of Medicine, the University of Jordan.
- d. Coordinator of the Neuroscience and behaviour module for 3rd year medical students.
- e. Second year supervisor. Faculty of Medicine, Tabuk University.

- f. Central nervous system coordinator. Faculty of Medicine, Tabuk University.
- g. Member of International society of developmental (ISDN), neuroscience of USA.
- h. Egyptian society of Anatomy.
- i. Member in E.M.D.C (Education Medical Developing Centre) Faculty of Medicine. Menoufia University.
- j. Member in Egyptian Basic Neuroscience branch from **IBRO**

8- Language & Skills:

- English: Fluent both spoken and written.
- ICDL (International Computer Driving Licence).

9- Attended courses

A- at the University of Jordan (2016-2025)

1. Performing professional MCQ exam
2. (Moodle e-Learning Platform
3. Artificial intelligence (basis and conceptions).
4. Introduction to SPSS for researchers' part 1
5. Introduction to SPSS for researchers' part 2
6. Research impact and increasing citation rates
7. Create Interactive Course Content with H5P Tools
8. How to establish a research group

B- At Tabuk University, K.S.A 2011-2016

1. Workshop on writing smart learning objectives.
2. Performing strategic plan for faculty of medicine.
3. Basis of PBL and methods of assessment.
4. How to perform triple jump exam.

C- At Menoufiya University, Egypt, 2010-2011

- 1- Time Management .
- 2- Ethics of scientific research .

- 3- Lecturer preparation .
- 4- Management of research team .
- 5- Global database .
- 6- Mind map.

D- At University of Nottingham 2007-2010

- 1-Ms PowerPoint
- 2- Presentation skills –building confidence.
- 3- How to prepare effective poster presentation.
- 4-Presentation skills.
- 5- Creating and publishing web pages.
- 6-Enhancing your website.
- 7-Introduction to image and photo editing.
- 8-Extra photo and image editing
- 9-introduction to library skills
- 10- Lecturing for learning
- 11-Supporting students who are doing undergraduate projects and dissertations.
- 12- Introduction to Qualitative research.
- 13-Referencing and citing using Endnote .
- 14-Introduction to SPSS for researchers.
- 15-Core skills for managers.
- 16- Introduction to statistics
- 17- Getting started with research design and statistics
- 18- Building better working Relationship.
- 19-Team building techniques to build better teams
- 20- Negation with staff to improve performance.
- 21- Introduction to skills of assertiveness and negotiation.

10- References:

1-Dr. Peter Wigmore

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2- Prof. Yousry Shawky

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