

## Curriculum Vitae

### Personal data

**Name** Shaimaa Nasr Amin  
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**Date of Birth** 30/6/1980  
**Nationality** Egyptian  
**Marital Status** Single  
**Membership** -International Society of Neurochemistry (ISN).  
- European Society for Cognitive and Affective Neuroscience (Escan)  
**{ ESCAN board member 2021-2023}**  
-Canadian Society for Brain, Behaviour and Cognitive Science (CSBBCS)  
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**Web of Science ResearcherID:** B-2764-2015 **Scopus Author ID:** 56438842000

### Certificates

-M.B.B.ch in November 2003, Faculty of Medicine-Cairo University  
-Master of Medical physiology, Faculty of medicine-Cairo University.  
-Medical Doctorate (MD.) of Medical Physiology, Faculty of medicine-Cairo University.  
-Master of Paediatrics-Ain Shams Faculty of Medicine.

#### Licenses & Certifications

-Certified Professional of Health Care Quality(CPHQ)  
-Team STEPPS master trainer  
-Scrum Fundamentals Certified (SFC)  
-Lean Six Sigma Yellow Belt (ICYB)  
-.Certified Marketing Strategy Associate (SCMS-F)  
-Certified Marketing Research Associate (SCMR-F)  
-The COSHH Risk Assessor Certification™

### Work experience

#### I-Academic work experience:

-Academic Demonstrator of Physiology-Faculty of Medicine-Cairo University ( from 2006 to 2010).  
-Assistant lecturer of Physiology - Faculty of Medicine-Cairo University ( from 2010 to September 2012).  
-Lecturer of Physiology-Faculty of Medicine-Cairo University from September 2012 to October 2017.  
-Lecturer of Physiology-Faculty of Pharmacy-MSA- University (part timer, from February 2013 till August 2014).  
-Teaching on line courses (Physiology1, physiology 2 and biology) of general education program, Faculty of Physiotherapy, Cairo University for Foreign Credentialing Commission on Physical Therapy (FCCPT) and validation by the Federation of State Boards of Physical Therapy (FSBPT), USA.  
-Lecture of Physiology –Faculty of Dentistry-Misr International University (Part timer Spring, 2015).  
-Assistant Professor of Physiology-Faculty of Pharmacy –Heliopolis University (**Part timer from Summer 2015 till Summer 2018**).  
-Adjunct assistant professor –Zewail City of Science and Technology (**from February 2016 till December 2018**).  
-Associate Professor of Medical Physiology-Faculty of Medicine Cairo University from October 2017 till now.  
-Associate Professor of Medical Physiology –Faculty of Medicine, Hashemite University, Jordan-from 13/1/2019 (**Current Position**).

#### II-Clinical work experience

-House officer for Kasr El Aini Hospital.  
-Resident of Neonatology for Ahmed Maher Teaching Hospital.

- Paediatric Specialist at Wady El Neel Hospital (From November 2014 till 31/12/2015).
- Paediatrics and Neonatology Specialist at Air Force specialized Hospital (From June 2015 till August 2018).
- Paediatrics and Neonatology Specialist at Cleopatra Hospital (From December 2014 till December 2018).

## Publications & Presentations:

### Conferences Presentations:

- White matter anisotropy and neurocognitive outcome in childhood acute lymphoblastic leukemia survivors treated with 3 different protocols. EUROPEAN HEMATOLOGY ASSOCIATION-17th Congress of EHA 14-17 June 2012 , Amsterdam, THE NETHERLANDS. DOI: 10.3252/pso.es.17eha.2012
- Effects of Chronic Aspartame Consumption on MPTP-Induced Parkinsonism in Male and Female Mice. 10<sup>th</sup> Forum of Federation of European Neuroscience Societies (FENS)- Copenhagen 2<sup>nd</sup>- 6<sup>th</sup> July 2016
- Effect of Cyclophosphamide on The Rat Urinary Bladder And The Possible Protective Role of Thymoquinone. ANNUAL MEETING AT EXPERIMENTAL BIOLOGY (EB) ;22-25 April 2017, Chicago, USA
- Hippocampal and cerebellar changes in acute restraint stress and the impact of pretreatment with ceftriaxone .Shaimaa Amin ,NohaAbdelatif , MagdyYouakim , HananYassa , LailaRashed. 11th FENS Forum of Neuroscience 7-11 July, 2018 Berlin, Germany
- Metformin Protects Against Thioacetamide-Induced Liver injury in Rats. Al-Hashem, Fahaid, AlHumayed, Suliman, Ellatif, Mohamed Abd, Amin, Shaimaa Nasr, Kamar, Samaa Samir, Al-Ani, Bahjat, &Haidara, Mohamed A. (2018). *International Journal of Morphology*, 36(3), 984-990. <https://dx.doi.org/10.4067/S0717-95022018000300984>.

### Publications:

- 1-Amin SN, Younan SM, Youssef MF, Rashed LA, Mohamady I. Effect of Diabetes Mellitus on Rat Cognitive Functions and Related Hippocampal Synaptic Plasticity Markers. *Medical Journal of Cairo University*.2011, volume 79, No.2.
- 2-Amin SN, Younan SM, Youssef MF, Rashed LA, Mohamady I. A histological and functional study on hippocampal formation of normal and diabetic rats. *F1000Res*. 2013 Jul 9;2:151. doi: 10.12688/f1000research.2-151.v1. PMID: 24555069; PMCID: PMC3901513.
- 3-ElAlfy M, Ragab I, Azab I, Amin S, Abdel-Maguid M. Neurocognitive outcome and white matter anisotropy in childhood acute lymphoblastic leukemia survivors treated with different protocols. *Pediatr Hematol Oncol*. 2014 Mar;31(2):194-204. doi: 10.3109/08880018.2013.871763. Epub 2014 Feb 5. PMID: 24498883.
- 4-Tork OM, Amin SN, Rashed LA. Melatonin reduces cardiac injury induced by lipopolysaccharides in rats. *JMSCR*.2014 Volume 2 Issue 10.
- 5-Amin SN, Gamal SM, Esmail RS, Aziz TM, Rashed LA. Cognitive effects of acute restraint stress in male albino rats and the impact of pretreatment with quetiapine versus ghrelin. *J Integr Neurosci*. 2014 Dec;13(4):669-92. doi: 10.1142/S0219635214500253. PMID: 25391717.
- 6-Amin SN, El-Aidi AA, Ali MM, Attia YM, Rashed LA. Modification of hippocampal markers of synaptic plasticity by memantine in animal models of acute and repeated restraint stress: implications for memory and behavior. *Neuromolecular Med*. 2015 Jun;17(2):121-36. doi: 10.1007/s12017-015-8343-0. Epub 2015 Feb 14. PMID: 25680935.
- 7-Amin SN, Gamal SM, Rasheed RA, Rashed LA. Ghrelin attenuates the effect of acute restraint stress on the liver. *Anat Physiol*. 2016;06(01):1-5.
- 8-Elberry DA, Amin SN, Esmail RS, Rashed LA, Gamal MM. Effect of undifferentiated versus hepatogenic partially differentiated mesenchymal stem cells on hepatic and cognitive functions in liver cirrhosis. *EXCLI J*. 2016 Nov 7;15:652-670. doi: 10.17179/excli2016-645. PMID: 28337098; PMCID: PMC5318675.

- 9-Rateb EE, Amin SN, El-Tablawy N, Rashed LA, El-Attar S. Effect of melatonin supplemented at the light or dark period on recovery of sciatic nerve injury in rats. *EXCLI J.* 2017 Mar 6;16:138-150. doi: 10.17179/excli2016-763. PMID: 28435433; PMCID: PMC5379119.
- 10-Amin SN, El-Aidi AA, Zickri MB, Rashed LA, Hassan SS. Hepatoprotective effect of blocking N-methyl-d-aspartate receptors in male albino rats exposed to acute and repeated restraint stress. *Can J Physiol Pharmacol.* 2017 Jun;95(6):721-731. doi: 10.1139/cjpp-2016-0556. Epub 2017 Mar 18. PMID: 28317386.
- 11-Amin SN, Al Okda AM, Rashed LA. Neuroprotective Effects of Piracetam Versus Peroxisome Proliferator-Activated Receptor Gamma Agonist Pioglitazone in Drug-Induced Parkinsonism. *International Annals of Medicine.* 2017;1(4).
- 12-Sayed DM, Amin SN, Yassa HD et al. Effects of vitamin D and metformin on diabetic cardiomyopathy in rats with type 2 Diabetes Mellitus. *International Journal of Anatomy Physiology and Biochemistry* 2017;4(4):1-13.
- 13-AbdelFattah HS, Ibrahim MT, Nasr MM, Amin SN. Cell Signaling in Cancer Microenvironment. *Int J Adv Biomed.* 2017;2(2):47-51.
- 14-Amin SN, Abdel Latif NS, Rashed LA. Impact of Blocking Renin Angiotensin Aldosterone Axis in Acute Kidney Injury. *International Annals of Medicine.* 2017;1(5).
- 15-Hassan SS, Razzaque A, Ahmad Z, Pazdernik V, Amin SN. Does posttreatment thymoquinone reverse high-dose atorvastatin-induced hepatic oxidative injury in rats? *Can J Physiol Pharmacol.* 2018 Jan;96(1):51-59. doi: 10.1139/cjpp-2017-0599. Epub 2017 Oct 2. PMID: 28968507.
- 16-Amin SN, Hassan SS, Rashed LA. Effects of chronic aspartame consumption on MPTP-induced Parkinsonism in male and female mice. *Arch Physiol Biochem.* 2018 Oct;124(4):292-299. doi: 10.1080/13813455.2017.1396348. Epub 2017 Nov 2. PMID: 29096532.
- 17-Amin SN, Hussein UK, Yassa HD, Hassan SS, Rashed LA. Synergistic actions of vitamin D and metformin on skeletal muscles and insulin resistance of type 2 diabetic rats. *J Cell Physiol.* 2018 Aug;233(8):5768-5779. doi: 10.1002/jcp.26300. Epub 2018 Feb 28. PMID: 29205344.
- 18-Al-Hashem F, AlHumayed S, Ellatif MA, Amin SN et al. Metformin protects against thioacetamide induced liver injury in rats. *Int J Morphol.* 2018;36(3):984-990.
- 19-Dallak M, Bin-Jalilah I, Al-Hashem F, Kamar SS, Kader DHA.; Amin SN et al. Metformin pretreatment ameliorates diabetic nephropathy induced by a combination of high fat diet and streptozotocin in rats. *Int J Morphol.* 2018;36(3):969-974.
- 20-AIOkda AM, Nasr MM, Amin SN. Between an ugly truth and a perfect lie: Wiping off fearful memories using beta-adrenergic receptors antagonists. *J Cell Physiol.* 2019 May;234(5):5722-5727. doi: 10.1002/jcp.27441. Epub 2018 Nov 11. PMID: 30417468.
- 21-Al-Hashem F, Al-Humayed S, Amin SN, Kamar SS, Mansy SS, Hassan S, Abdel-Salam LO, Ellatif MA, Alfaifi M, Haidara MA, Al-Ani B. Metformin inhibits mTOR-HIF-1 $\alpha$  axis and profibrogenic and inflammatory biomarkers in thioacetamide-induced hepatic tissue alterations. *J Cell Physiol.* 2019 Jun;234(6):9328-9337. doi: 10.1002/jcp.27616. Epub 2018 Oct 18. PMID: 30334569.
- 22-Dallak M, Haidara MA, Bin-Jalilah I, Eid RA, Amin SN, Abdel Latif NS, Al-Ani B. Metformin suppresses aortic ultrastructural damage and hypertension induced by diabetes: a potential role of advanced glycation end products. *Ultrastruct Pathol.* 2019;43(4-5):190-198. doi: 10.1080/01913123.2019.1666952. Epub 2019 Sep 15. PMID: 31522593.
- 23-Al Humayed S, Al-Hashem F, Haidara MA, El Karib AO, Kamar SS, Amin SN, Al-Ani B. Resveratrol Pretreatment Ameliorates p53-Bax Axis and Augments the Survival Biomarker B-Cell Lymphoma 2 Modulated by Paracetamol Overdose in a Rat Model of Acute Liver Injury. *Pharmacology.* 2020;105(1-2):39-46. doi: 10.1159/000502632. Epub 2019 Sep 25. PMID: 31554003.

24-Amin SN, Hassan SS, Khashaba AS, Youakim MF, Latif NSA, Rashed LA, Yassa HD. Hippocampal and Cerebellar Changes in Acute Restraint Stress and the Impact of Pretreatment with Ceftriaxone. Brain Sci. 2020 Mar 25;10(4):193. doi: 10.3390/brainsci10040193. PMID: 32218213; PMCID: PMC7225952.

25-Aboulhoda BE, Amin SN, Thomann C, Youakim M, Hassan SS. Effect of thymoquinone on cyclophosphamide-induced injury in the rat urinary bladder. Archives of Medical Science. 2020. doi:10.5114/aoms.2020.97061.

26-Kamar SS, Latif NSA, Elrefai MFM, Amin SN. Gastroprotective effects of nebivolol and simvastatin against cold restraint stress-induced gastric ulcer in rats. Anat Cell Biol 2020; 53:301-312.

27-Amin SN, El-Gamal EM, Rashed LA, Kamar SS, Haroun MA. Inhibition of notch signalling and mesangial expansion by combined glucagon like peptide-1 agonist and crocin therapy in animal model of diabetic nephropathy. Arch Physiol Biochem. 2020 Dec 7:1-11. doi: 10.1080/13813455.2020.1846203. Epub ahead of print. PMID: 33280420.

#### **\*Submitted Manuscripts:**

Melatonin Pretreated Mesenchymal Stem Cell Improve Cognition in A Diabetic Murine Model.

**Submitted to: Frontiers in Physiology.**

#### **Current Research work:**

- Effect of Citicoline on the Heart in rats with Catecholamines Depletion.
- Transplantation of mesenchymal stem cells in an animal model of aging brain

#### **Honours and awards:**

- Rita Levi-Montalcini Prize as part of young investigator Training Program (Training at Department of Physiology and Pharmacology- Molecular Neurophysiology-Karolinska Institute-Stockholm-Sweden from 13<sup>th</sup> June to 13<sup>th</sup> July 2011).
- Alumnus Poster Prize (Assessment of cognitive functions and Some Markers of Synaptic Plasticity in Diabetic rats)-50<sup>TH</sup> IBRO world Congress-Florence- Italy (14<sup>th</sup> -18<sup>th</sup> July 2011).
- Best PhD thesis award 2012-Faculty of Medicine, Cairo University.
- Cairo University International Publication awards (2014-2019)

#### **Courses and Workshops**

- 1)Neuro-immunology Course-IBRO-FAIS (**EGYPT, 2007**)
- 2) Chronobiology and Sleep-IBRO, UNESCO, ISN(**Morocco, 2008**)
- 3)2<sup>nd</sup> Teaching tools workshop-IBRO, SFN, NAS(**Egypt, 2009**)
- 4) Professional skills workshop-SONA (**Egypt, 2009**)
- 5) 22<sup>nd</sup> IBRO-UNESCO African school of Neuroanatomy and Neurochemistry(**Algeria, 2010**)
- 6) Cognition and action school-IBRO, FENS (**Croatia, 2010**)
- 7) 3<sup>rd</sup> Teaching Tools workshop-IBRO, SFN, NAS (**Nairobi, Kenya, 2010; participated as Faculty**)
- 8) 25<sup>th</sup> IBRO/ISN Neuroscience School in Africa-"Onslaughts on the central dopaminergic system" (**Durban, SouthAfrica, 2010**)
- 9) IBRO-UNESCO interregional workshop, Epigenetics and Behavior (**Kilifi. Kenya, from 8<sup>th</sup> to 15<sup>th</sup> December 2012**)
- 10) Basic Neonatal Care
- 11) Neonatal Resuscitation
- 12) Effective Methods of Teaching
- 13) Skills of Presentation
- 14) Scientific Writing and International Publishing
- 15) Research Team Management
- 16) Research Methods and Statistics
- 17) Quality assurance
- 18) Communications skills
- 19) Code of Ethics
- 20) Use of Technology in Teaching
- 21) How to compete for a research Fund
- 22) Credit Hour System
- 23) Portfolio in teaching and learning
- 24) Health Care Quality Management

- 25) Team STEPPS Master Trainer-Agency for Health Care Research and Quality, December 2015.
- 26) Researchers connect-British Council, 13-15 December 2015.
- 27) Legal and Financial Aspects in University Environment (16-17/1/2016)
- 28) University Management (31/8-1/9/2016)
- 29) Conference Organization (4-5/2/2017)
- 30) Arabic and English Editing in Scientific Research (17-18/5/2017)
- 31) Achieving Total System Safety (2019)
- 32) Incorporating Mindfulness into Clinical Practice (2019)
- 33) Certified Peer Reviewer Course, Research Academy, Elsevier(2019)
- 34) Access to Research for development and innovation: ARDI (Research for life, UNTB, FAO-July 2020)
- 35) Research for Health: Hinari (Research for life, UNTB, FAO-July 2020)

## Meetings and Conferences

- 9<sup>th</sup> Society of Neuroscientists of Africa (IBRO,SONA), International conference,(8<sup>th</sup>-13<sup>th</sup> December 2009,EGYPT-Symposium organizer).
- 1<sup>st</sup> East African Neuroscience conference-IBRO, SONA, WFN-(7-10 September, Nairobi-Kenya)
- 50<sup>th</sup> IBRO World Congress- Florence- Italy (14-18 July 2011-Poster Presenter)
- Third Jubilee International Conference of Neuroscience and Biological Psychiatry-Yerevan-Armenia (22<sup>nd</sup>-24<sup>th</sup> September 2013).
- 2nd Joint WPA-INA-HSRPS International Psychiatric Congress; October 30 - November 2, 2014 Athens, Greece (Speaker and session chair).
- 10<sup>th</sup> Forum of Federation of European Neuroscience Societies(FENS)- Copenhagen 2<sup>nd</sup>- 6<sup>th</sup> July 2016 (Poster presenter).
- Zewail City Conference & Exhibition on Biomedical Sciences, Egypt 21-22 April 2017 (Scientific Committee Member).
- The 8<sup>th</sup> Annual Scientific Conference of Medical Physiology Department (Updates in Neurosciences: From Bench to Bedside Mansoura Faculty of Medicine, 27, 28 Dec, 2017(Speaker).
- 11<sup>th</sup> FENS Forum of Neuroscience 7-11 July, 2018 Berlin, Germany (Poster Presenter).

## Editorial Duties

- Reviewer for the Science and Technology Development fund (STDF) projects, Egyptian Ministry for Scientific Research.
- Reviewer for: Central Nervous System Agents in Medicinal Chemistry
  - The Behavioral and Brain Functions Journal
  - Heart and Mind Journal.
  - Journal of Physiology and Pharmacology
  - Scientific Reports Journal
  - Aging and Disease Journal
  - PLOS ONE journal.
  - Bioscience Reports
  - The International Journal of Neuroscience
  - Bulletin of Egyptian Society for Physiological Sciences
- Editorial board member of Alzheimer's, Dementia & Cognitive Neurology (ADCN) Journal

## Computer Skills

International Computer Driving License (ICDL)

## REFERENCES

Available on request