

Nesrine El Sayed

Date of birth: 24/03/1970 | **Nationality:** Egyptian | **Gender:** Female | (+20) 01001472952 |

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● WORK EXPERIENCE

27/09/2017 – CURRENT – Cairo, Egypt

PROFESSOR OF PHARMACOLOGY AND TOXICOLOGY – FACULTY OF PHARMACY, CAIRO UNIVERSITY

- Head of department of pharmacology and toxicology, faculty of pharmacy, CU till now.
- Head of the control of examination of first and second year students (PharmD)
- Director of the international relations bureau (IRB), Faculty of pharmacy, Cairo University.
- Member in the faculty of pharmacy council, Cairo university (2019-till now)
- Membership in the mentoring, probation and disciplinary committees in GUC.
- Coordinator of the pharmacovigilance program delivered to the postgraduate students in faculty of pharmacy, Cairo university
- Member in the ethics committee of Cairo University (CA-IACUC) Institutional animal care and use committee
- Supervisor of the behavioural animal lab in the faculty of pharmacy-German University in Cairo
- Head of the committee of Quality Assurance and Accreditation in the Department
- Research coordinator of the department of pharmacology and toxicology for the research planning of the faculty of pharmacy, CU
- Membership of the committee of Libraries in CU.
- Academic coordinator of the mobility agreement under the framework of Erasmus+ KA107 between Cairo University and Medical University in Lublin-Poland (2019-2023).

● EDUCATION AND TRAINING

CURRENT – Kasr El Aini, Cairo

PH.D. IN PHARMACOLOGY AND TOXICOLOGY, FACULTY OF PHARMACY, CAIRO UNIVERSITY, 2004 - MASTER OF PHARMACEUTICAL SCIENCES IN PHARMACOLOGY AND TOXICOLOGY, FACULTY OF PHARMACY, CAIRO UNIVERSITY, 1998. - BACHELOR DEGREE OF PHARMACEUTICAL SCIENCES, FACULTY – Faculty of Pharmacy, Cairo University

Kasr El Aini, Cairo

ASSOCIATE PROFESSOR OF PHARMACOLOGY & TOXICOLOGY-FACULTY OF PHARMACY- CAIRO UNIVERSITY, 9/2016- 2017 – Faculty of Pharmacy, Cairo University

ASSOCIATE PROFESSOR OF PHARMACOLOGY & TOXICOLOGY- GERMAN UNIVERSITY IN CAIRO, 5/2012-2016

LECTURER OF PHARMACOLOGY AND TOXICOLOGY, GERMAN UNIVERSITY IN CAIRO, 2007-2012

LECTURER OF PHARMACOLOGY & TOXICOLOGY- CAIRO UNIVERSITY, 2004 – 2012

04/11/2018 – 15/11/2018

THE INTERNATIONAL COURSE OF LABORATORY ANIMAL SCIENCE IN EGYPT IN COOPERATION WITH ULTRECHT UNIVERSITY, NETHERLANDS – The institutional Animal Care and Use Committee, Cairo University

22/01/2017 – 24/01/2017

BASIC RESEARCH COMPETENCY PROGRAM FOR RESEARCH COORDINATORS – The general scientific research department in collaboration with faculty of medicine education centre

19/06/2010 – 21/06/2010

ISOLATION, PROLIFERATION & DIFFERENTIATION OF HUMAN CORD BLOOD STEM CELLS ALONG HEPATOCYTE LINEAGE – VACSERA (the holding company for biological products and vaccines)

Arranged The Higher Education Academy Health Sciences and Practice Subject Centre and The Department of Education and Professional Studies at King's College London

● LANGUAGE SKILLS

Mother tongue(s): ARABIC

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	C1
FRENCH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● DIGITAL SKILLS

Microsoft Word | Microsoft Excel | Outlook | Microsoft Powerpoint | Google Drive | Google Docs | Skype | Zoom | Microsoft Office | Presenting | Written and Verbal skills | Internet user

● PUBLICATIONS

Crown Ether Nanovesicles (Crownsomes) Repositioned Phenytoin for Healing of Corneal Ulcers

Mahmoud DB, Afifi SA, El Sayed NS. Mol Pharm. 2020 Oct 5; 17(10):3952-3965.
<https://pubs.acs.org/doi/10.1021/acs.molpharmaceut.0c00742> – 2020

Antia, a Natural Antioxidant Product, Attenuates Cognitive Dysfunction in Streptozotocin-Induced Mouse Model of Sporadic Alzheimer's Disease by Targeting the Amyloidogenic, Inflammatory, Autophagy, and Oxidative Stress Pathways.

El Sayed NS, Ghoneum MH. Oxid Med Cell Longev. 2020;2020:4386562.
<https://www.hindawi.com/journals/omcl/2020/4386562/> – 2020

Xanthotoxin and umbelliferone attenuate cognitive dysfunction in a streptozotocin-induced rat model of sporadic Alzheimer's disease: The role of JAK2/STAT3 and Nrf2/HO-1 signalling pathway modulation

Hindam MO, Sayed RH, Skalicka-Woźniak K, Budzyńska B, El Sayed NS. Phytother Res. 2020 Sep;34(9)
<https://onlinelibrary.wiley.com/doi/full/10.1002/ptr.6686> – 2020

Neuroprotective effect of PPAR alpha and gamma agonists in a mouse model of amyloidogenesis through modulation of the Wnt/beta catenin pathway via targeting alpha- and beta-secretases.

Assaf N, El-Shamarka ME, Salem NA, Khadrawy YA, El Sayed NS.
<https://pubmed.ncbi.nlm.nih.gov/31669201/> – 2020

Effect of pioglitazone and simvastatin in lipopolysaccharide-induced amyloidogenesis and cognitive impairment in mice: possible role of glutamatergic path-way and oxidative stress.

Thabit S, and Nesrine S. El Sayed. Behav Pharmacol.2019; 30(1):5-15.
<https://pubmed.ncbi.nlm.nih.gov/29659380/> – 2019

Protective effect of methylene blue on TNBS-induced colitis in rats mediated through the modulation of inflammatory and apoptotic signalling pathways. Protective effect of methylene blue on TNBS-induced colitis in rats mediated through the modulation of inflammatory and apoptotic signalling pathways.

El Sayed NS, Sayed AS. Arch Toxicol. 2019;93(10):2927-2942
<https://pubmed.ncbi.nlm.nih.gov/31428839/> - 2019

Styphnolobium japonicum (L.) Schott Fruits Increase Stress Resistance and Exert Antioxidant Properties in Caenorhabditis elegans and Mouse Models.

Thabit S, Handoussa H, Roxo M, Cestari de Azevedo B, S E El Sayed N, Wink M. Molecules. 2019;24(14)
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6680879/> - 2019

Role of 3-Acetyl-11-Keto-Beta-Boswellic Acid in Counteracting LPS-Induced Neuroinflammation via Modulation of miRNA-155.

Sayed, A., Gomaa, I., Bader, M. and Nesrine S. El Sayed. Mol Neurobiol 2018; 55:5798–5808
<https://pubmed.ncbi.nlm.nih.gov/29079998/> - 2018

Dermal anti-oxidant, anti-inflammatory and anti-aging effects of Compritol ATO-based Resveratrol colloidal carriers prepared using mixed surfactants.

Abbas H, Kamel R, El-Sayed N. Int J Pharm. 2018;541(1-2):37-47.
<https://pubmed.ncbi.nlm.nih.gov/29458209/> - 2018

Superparamagnetic Iron Oxide-Loaded Lipid Nanocarriers Incorporated in Thermosensitive In Situ Gel for Magnetic Brain Targeting of Clonazepam.

Abbas H, Refai H, El Sayed N. J Pharm Sci. 2018;107(8):2119-2127.
<https://pubmed.ncbi.nlm.nih.gov/29665379/> - 2018

Neuromodulatory Effect of Thymoquinone in Attenuating Glutamate-Mediated Neurotoxicity Targeting the Amyloidogenic and Apoptotic Pathways.

Ibram A Fouad, Nadia M Sharaf, Ragwa M Abdelghany and Nesrine S. El Sayed. Front Neurol. 2018; 9:236
<https://pubmed.ncbi.nlm.nih.gov/29706929/> - 2018

Evaluation of antioxidant and neuroprotective activities of Cassia fistula (L.) using the Caenorhabditis elegans model

Thabit S, Handoussa H, Roxo M, Nesrine S. El Sayed, Cestari de Azevedo B, Wink M. PeerJ. 2018;6:e5159
<https://pubmed.ncbi.nlm.nih.gov/30023139/> - 2018

Targeting central β 2 receptors ameliorates streptozotocin induced neuroinflammation via inhibition of glycogen synthase kinase3 pathway in mice.

Abdel Rasheed NO, Nesrine S. El Sayed, El-Khatib AS. Prog Neuropsychopharmacol Biol Psychiatry. 2018
<https://pubmed.ncbi.nlm.nih.gov/29782959/> - 2018

Montelukast attenuates rotenone-induced microglial activation/p38 MAPK expression in rats: Possible role of its antioxidant, antiinflammatory and antiapoptotic effects.

Mansour RM, Ahmed MAE, El-Sahar AE and Nesrine S. El Sayed. Toxicol Appl Pharmacol. 2018; 358:76-85
<https://pubmed.ncbi.nlm.nih.gov/30222980/> - 2018

Protective effects of gingerol on streptozotocin-induced sporadic Alzheimer's disease: emphasis on inhibition of β -amyloid, COX-2, alpha-, beta- secretases and A β 1a.

Ali M. El Halawany, Nesrine S. El Sayed, Hossam M. Abdallah, Riham Salah El Dine. Scientific Reports
<https://pubmed.ncbi.nlm.nih.gov/28588301/> - 2017

Protective effects of Telmisartan and tempol on lipopolysaccharide-induced cognitive impairment, neuroinflammation and amyloidogenesis: possible role of brain derived neurotrophic factor.

Waleed A.Khallaf, Basim A. Messiha, Amira M. Abo-Youssef, Nesrine S. El-Sayed. Can.J.Physiol.Pharma
<https://pubmed.ncbi.nlm.nih.gov/28388365/> - 2017

Protective effect of valproic acid in streptozotocin-induced sporadic Alzheimer's disease mouse model: possible involvement of the cholinergic system.

Mirna ESorial and Nesrine S El Sayed. Naunyn Schmiedebergs Archives of Pharmacology, 2017, 390: 581
<https://pubmed.ncbi.nlm.nih.gov/28188358/> - 2016

Co- administration of 3-Acetyl-11-Keto-Beta-Boswellic Acid potentiates the protective effect of celecoxib in lipopolysaccharide-induced cognitive impairment in mice: possible implication of anti-inflammatory and antglutamatergic pathways.

Aya S Sayed and Nesrine S El Sayed. J Mol Neurosci; 59 (1):58-67.
<https://pubmed.ncbi.nlm.nih.gov/26984336/> - 2016

Possible role of resveratrol targeting estradiol and neprilysin pathways in lipopolysaccharide model of Alzheimer disease.

Nesrine S. El-Sayed and Yasmeen Bayan. AdvExp Med Biol. 2015; 822:107-18.
<https://pubmed.ncbi.nlm.nih.gov/25416980/> - 2015

Evaluation of Plant Phenolic Metabolites as a Source of Alzheimer's Drug Leads.

YaraHassan, HebaHandoussa,Ahmed H. El-Khatib,MichaelW. Linscheid,Nesrine El Sayed,andNahlaAyoub.
<https://pubmed.ncbi.nlm.nih.gov/24999480/> - 2014
Bio Med Research International 2014, 843263, 1-10.

Protective Effect of Aframommeleguetaphenolics Against CCl4-Induced Rat Hepatocytes Damage; Role of Apoptosis and Pro-inflammatory Cytokines inhibition.

Ali M. El-Halawany, Riham Salah El Dine, Nesrine S. El Sayed and Masao Hattori. Sci.Rep. 4, 5880
<https://pubmed.ncbi.nlm.nih.gov/25077538/> - 2014

Overexpression of NMDAR2B in an inflammatory model of Alzheimer's disease: Modulation by NOS inhibitors"

Ahmed Maher, M.Sc; Nesrine S El-Sayed, Hans G Breiting, Mohamed Zakaria Gad.
<https://pubmed.ncbi.nlm.nih.gov/25454121/> - 2014
Brain Research Bulletin 109 (2014) 109–116.

TEMPOL, a Membrane-Permeable Radical Scavenger, Ameliorates Lipopolysaccharide-Induced Acute Lung Injury in Mice: a Key Role for Superoxide Anion.

El-Sayed NS, Mahran LG, Khattab MM. Eur.J.Pharmacol., 663(1-3):68-73
<https://pubmed.ncbi.nlm.nih.gov/21554869/> - 2011

Phytochemical and biological investigation of the extracts of Nigella sativa L. seed waste.

Michel CG, El-Sayed NS, Moustafa SF, Ezzat SM, Nesseem DI, El-Alfy TS.
<https://pubmed.ncbi.nlm.nih.gov/21309000/> - 2011
Drug Test. Analysis , 3, 245-254

Promising Therapy for Alzheimer's disease Targeting The Angiotensin-Converting Enzyme And TheCyclooxygenase 2 isoform."

El Sayed NS, Kassem LA, Heikal OA. Drug Discov.Ther.2009;3(6):307-315.
<https://pubmed.ncbi.nlm.nih.gov/22495665/> - 2009

Tea in health and disease prevention

2012

Contributing with a chapter in the book: Tea in health and disease prevention (2012).CHAPTER 54: The Protective Effect of Green Tea Against Experimentally-Induced Lung Fibrosis in Rats. ISBN: 978-0-12-384937-3 published by Elsevier.

Neuroprotective Effects of Phytochemicals in Neurological Disorders

2017

Contributing with a chapter in the book: Neuroprotective Effects of Phytochemicals in Neurological Disorders (2017).CHAPTER 19: Modulation of Estradiol and Neprilysin Pathways by Resveratrol in a Lipopolysaccharide Model of Cognitive impairment. ISBN: 978-1-119-15514-0 published by Wiley.

Protective Effect of Biobran/MGN-3 against Sporadic Alzheimer's Disease Mouse Model: Possible Role of Oxidative Stress and Apoptotic Pathways

Ghoneum MH, El Sayed NS. Oxid Med Cell Longev. 2021 Jan 26;2021:8845064. doi: 10.1155/2021/8845064. <https://pubmed.ncbi.nlm.nih.gov/33574982/> - 2021

Alogliptin Attenuates Lipopolysaccharide-Induced Neuroinflammation in Mice Through Modulation of TLR4/MYD88/NF- κ B and miRNA-155/SOCS-1 Signaling Pathways

El-Sahar AE, Shiha NA, El Sayed NS, Ahmed LA. Int J Neuropsychopharmacol. 2021 Feb 15;24(2):158-169 <https://pubmed.ncbi.nlm.nih.gov/33125461/> - 2021

Mechanisms of the Procognitive Effects of Xanthotoxin and Umbelliferone on LPS-Induced Amnesia in Mice

<https://pubmed.ncbi.nlm.nih.gov/33579030/> - 2021

Kurach Ł, Kulczycka-Mamona S, Kowalczyk J, Skalicka-Woźniak K, Boguszewska-Czubara A, El Sayed N, Osmani M, Iwaniak K, Budzyńska B. Int J Mol Sci. 2021 Feb 10;22(4):1779. doi: 10.3390/ijms22041779.

Neuroprotective Effects of Telmisartan and Nifedipine Against Cuprizone-Induced Demyelination and Behavioral Dysfunction in Mice: Roles of NF- κ B and Nrf2

Abd El Aziz AE, Sayed RH, Sallam NA, El Sayed NS. Inflammation. 2021 Mar 11. doi: 10.1007/s10753-02 <https://pubmed.ncbi.nlm.nih.gov/33709265/> - 2021

Nourin-Associated miRNAs: Novel Inflammatory Monitoring Markers for Cyclocreatine Phosphate Therapy in Heart Failure

<https://pubmed.ncbi.nlm.nih.gov/33808213/> - 2021

Elgebaly SA, Todd R, Kreutzer DL, Christenson R, El-Khazragy N, Arafa RK, Rabie MA, Mohamed AF, Ahmed LA, El Sayed NS. Int J Mol Sci. 2021 Mar 30;22(7):3575. doi: 10.3390/ijms22073575.

Triblock Copolymer Bioinks in Hydrogel 3D Printing for Regenerative Medicine - a Focus on PF127

<https://www.liebertpub.com/doi/abs/10.1089/ten.TEB.2021.0026> - 2021

Shamma RN, Sayed RH, Madry H, El Sayed NS, Cucchiari M. Tissue Eng Part B Rev. 2021 Apr 5. doi: 10.1089/ten.TEB.2021.0026.

● CONFERENCES AND SEMINARS

03/12/2020 – 03/12/2020 – Online Workshop
The institutional meetings “Choose France 2020”

13/11/2020 – 17/11/2020 – The American Heart Association
Scientific Sessions 2020

The American Heart Association is accredited by the American Nurses Credentialing Center (ANCC), the Accreditation Council for Pharmacy Education (ACPE), and the Accreditation Council for Continuing Medical Education (ACCME), to provide continuing education for the healthcare team. This activity was designated for 35 AMA PRA Category 1 Credit(s)[™].

09/11/2020 – 13/11/2020

“Digital Transformation in African Higher and Tertiary Education”

Attended

13/10/2020 – 13/10/2020

Panel discussion: International academic collaboration: The back door remedy to a global crisis?!

Attended

11/07/2020 – 15/07/2020

FENS 2020 Virtual Forum

18/06/2020 – 18/06/2020

The Webinar jointly organized by CLICKS and AUF titled “Student Assessment in Online Learning Environments”

Attended

01/06/2020 – 02/06/2020 – Attended

The virtual conference on Lysosomal diseases

01/04/2020 – 05/04/2020 – E-poster presentation

The 2nd AAT-AD/PD[™] 2020 Focus Meeting

08/03/2020 – 09/03/2020 – Cairo, Egypt

The 4th Annual Arab International Pharmacy Conference

Attended

05/02/2020 – 06/03/2020 – Rome, Italy

The 22nd International Conference on Biochemical and Clinical Pharmacology

Oral presentation and session chair

07/07/2018 – 11/07/2018 – Berlin, Germany

The 11th FENS Forum of Neuroscience

Poster Presentation

28/11/2017 – 29/11/2017 – AUC, Cairo, Egypt

THE First Regional Symposium in Neuroethics

Attended

29/03/2017 – 02/04/2017 – Vienna, Austria

The 13th international conference on alzheimer's and parkinson's (ADPD)

Poster Presentation

19/01/2017 – 20/01/2017 – Cairo, Egypt

The 9th Breast-Gynecological&Immunooncology International Cancer Conference

Attended

03/09/2015 – 06/09/2015 – Prague, Czech Republic

The 2nd World Congress on Neurotherapeutics (DDD). Dilemmas, Debates, Discussions

Poster Presentation

17/09/2014 – 19/09/2014 – De Doelen, Rotterdam, The Netherlands

The 10th International Congress of the European Union Geriatric Medicine Society

Oral presentation

10/04/2014 – 13/04/2014 – Corfu-Greece

1st world congress in geriatrics and neurodegenerative diseases in 10-13 April, 2014

Oral Presentation

08/12/2013 – 11/12/2013 – Geneva, Switzerland.

The XX World Congress on Parkinson's Disease and Related Disorders

E-poster

21/09/2013 – 26/09/2013 – Vienna-Austria

The XXI World Congress of Neurology

Accepted abstract

19/07/2010 – 23/07/2010 – Barcelona, Spain

The XII International Congress of Toxicology.

Poster Presentation

12/07/2009 – 15/07/2009 – Edinburgh, Scotland

The 9th conference of Basic and Clinical Pharmacology and Toxicology

Poster Presentation

● **PROJECTS**

19/05/2019 – 19/05/2021

To Determine the Capability of the Cardioprotective Cyclocreatine Phosphate to Reduce the Progression of Myocardial Infarction to Heart Failure in the Standard ISO Rat Model

Principal investigator of the project:(ASRT Jesor, № 2371, 2019-2021)

2013 – 2015

Anti-Alzheimer Effect of Gingerol and Paradol, Major Constituents of Ginger; Emphasis on Inhibition of β -Amyloid, COX-2 and Secretases

Co-PI in the Project (DSR, King Abdulaziz University) 2013-2015.

Hepatoprotective Activity of Aframomum melegueta Against CCl₄-Induced Damage on the Rat Hepatocytes; Possible Role of the inhibition of Apoptosis and Pro-inflammatory Cytokines.

Co-PI of the project (DSR, King Abdulaziz University)

● **NETWORKS AND MEMBERSHIPS**

2017 – CURRENT

German Neuroscience Society

2012 – 2013

The international society for the study of xenobiotics (ISSX)

2013 – 2015

European behavioural pharmacology society (ebps)

2018 – CURRENT

Institutional Animal Care and Use Committee in Cairo University

2020 – CURRENT

Ethics Committee in Faculty of pharmacy, Cairo University

2020 – CURRENT

Arbitrator to check the scientific production for the positions of professors and assistant professor in Cairo University

2020 – CURRENT

Member of the editorial board of the Egyptian Journal of Basic and Clinical Pharmacology

Member in the faculty of pharmacy council, Cairo university (2019-till now)

● **ORGANISATIONAL SKILLS**

Principal investigator and Co- PI in many projects

Coordinator and teaching of the Pharmacovigilance Diploma 2017-Ongoing for postgraduates

Academic coordinator of the mobility agreement under the framework of Erasmus+ KA107 between Cairo University and Medical University in Lublin-Poland (2019-2023).

Coordinator and teaching of the certificate of Management of Poisoning as a part of the EU-funded Erasmus + project (IT-based international diploma and professional certificate in clinical toxicology ITCT)

Coordinator and teaching of Clinical Pharmacology, Therapeutics I, Toxicology, Pharmacology II and First aid courses for undergraduates

Teaching and trainer the course of: "Drug development Anticancer Process" for postgraduates

Organized by the ministry of health and population in collaboration with the national training institute

● **MANAGEMENT AND LEADERSHIP SKILLS**

Head of department of pharmacology and toxicology, faculty of pharmacy, Cairo University.

Director of the International Relation Bureau in Faculty of Pharmacy, Cairo University

Head of the control of examination office of first year students (PharmD) in Faculty of Pharmacy, Cairo University

Supervisor of the behavioural animal lab in the faculty of pharmacy-German University in Cairo

Supervisor of master and PhD thesis in Faculty of Pharmacy, Cairo University and German University in Cairo

Organization and supervision of First Aid workshop in cooperation with the Egyptian Red Crescent for the academic and administrative staff members in the period from 30 November to 2nd December 2019.

Organization of a First aid workshop in cooperation with "Johanniter-Unfall-Hilfe institute in Berlin-Germany for the undergraduates 2012 in Berlin.

Organization of a workshop entitled: Intravenous fluid therapy & Total parenteral nutrition: Clinical implications for hospitalized patients in cooperation with sales manager at Egypt Otsuka pharmaceutical company.

Supervisor of a training program of students in Egypt's Abbasiya Mental Health Hospital in summer 2017

● **HONOURS AND AWARDS**

Cairo university prizes in scientific publishing from 2015-2020 – Cairo University

Reviewer of grant proposals to be funded by the faculty of pharmacy, Cairo University (2019-2020). – Cairo University

Reviewer of 4 grant proposals funded by STDF – Science and Technology Development Fund

Reviewer of two grant proposals within the Life Sciences LS1 (Molecular biology, structural biology, biotechnology) and LS7 (Diagnostic tools, therapies and public health) Panels in 2020 – The National Science Centre in Poland.
