

**Noha Ibrahim Hussien**

**Professor of medical physiology  
Benha, faculty of Medicine  
Benha University , Egypt**

Cellular :(002)01212554662

E.Mail: [drnohaibrahim79@gmail.com](mailto:drnohaibrahim79@gmail.com)  
[noha.ibrahim@fmed.bu.edu.eg](mailto:noha.ibrahim@fmed.bu.edu.eg)

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## **PERSONAL INFORMATION**

<b>Nationality</b>	Egyptian
<b>Language (s)</b>	English/Arabic
<b>Date of birth</b>	1.09.1979
<b>Family Status</b>	Married
<b>Children</b>	A girl and two boys.

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**Google Scholar Feb. 2025 : Citations 561  
H-index : 13  
Hi -index: 16**

## **Educational experience**

- Program evaluation and Quality Assurance.
- Medical Education.
- Curriculum development and innovation.
- Medical student's assessments.
- International affairs

## **Special achievements**

- Research publications in international refereed journals and conference proceedings.
- Presentation of research findings at national scientific conferences.

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**Education and Fellowships:**

2011	Ph.D, Clinical Physiology College of Medicine, Benha University. Egypt. Dissertation : A possible role of vitamin E in metabolic changes induced by chronic stress in rats.
2007	<i>M.Sc. (General human Physiology)(Excellent)</i> College of Medicine, Benha University. Egypt. Dissertation : Role of nitric oxide on corticosterone, blood glucose and lipid profile levels under different types of stress.
2002	<i>MBBS</i> (very good) College of Medicine, Benha University. Egypt.

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**Employment**

2022- current	Benha University , professor of Clinical Physiology in Physiology Department, College of Medicine, Benha University,Egypt.
2018- current	Benha University , Assistant Prof of Clinical Physiology in Physiology Department, College of Medicine, Benha University,Egypt.
2016-present	Assistant Prof of Physiology. College of Medicine , Benha University,Egypt
2011-2016	Lecturer of Physiology. College of Medicine , Benha University,Egypt
2007-2011	Assistant lecturer of Physiology.College of Medicine . Benha University ,Egypt
2004-2007	Demonstrator, Physiology , College of Medicine, College of Medicine Benha University ,
2024	The 11 <sup>th</sup> Scientific conference - physiology department- Faculty of benha University, March -2024.
2023	The 10 <sup>th</sup> Scientific conference - physiology department- Faculty of benha University, March -2023.
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2022	The 9 <sup>th</sup> Scientific conference - physiology department- Faculty of benha University, March -2022.
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- 2020                    The 4<sup>th</sup> Scientific conference - physiology department- Faculty of medicine- Ain Shams University, 23 November -2020.
- 2020                    The 3<sup>rd</sup> Scientific conference - pathology department- Faculty of medicine- Ain Shams University, 23 November -2020.
- 2020                    A workshop on program for Blue Blue Button within the e-learning platform held on 29 December 2020.
- 2019                    Further courses attended and training: The 8th Annual conference of Faculty of Medicine, Benha University, 27<sup>th</sup> -28<sup>th</sup> November 2019.
- 2019                    The 3rd Scientific conference - physiology department- Faculty of medicine- Ain Shams University, 16-22 March -2019.
- 2018                    European accreditation council for continuing medical education .the 2nd annual conference of physiology department, the 39th annual Ain Shams Medical Congress.
- 2017                    Microscopic techniques between past and present and the scientific quotation between similarity and plagiarism, Benha university.
- 2016                    Multidisciplinary approaches towards healthy aging, physiology department ,Menoufia University.
- 2015                    Workshop about stem cell between research and applications, held by Histology department in collaboration with Benha CME.
- 2014                    Training course about programs and courses specification, in Benha faculty of medicine in collaboration with national authority for Quality Assurance and Accreditation of education.
- 2013                    The annual medical Conference of Benha faculty of medicine titled improving health care and emergency services in delta region, 23-26 April, 2013.
- 2012                    The 6th annual scientific conference of medical physiology department faculty of medicine Mansoura University titled Neovascularization from basic science to clinical applications.
- 2012                    The annual medical Conference of Benha faculty of medicine titled medical education between quality and accreditation.
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**Examiner in human Physiology for the Doctorate, Master, and MBBS Degrees in Benha university.**

**Examiner in human Physiology for the MBBS Degrees in medical engineering- Benha university.**

**Examiner in human Physiology for the MBBS Degrees in faculty of nursery- Benha university.**

**Examiner in human Physiology for the MBBS Degrees in faculty of physical therapy- Benha university.**

**Chairman/ Member of several evaluation and examination panels for Master and Doctorate Thesis in Benha university.**

### **Publications:**

(27) Nesrine Ebrahim, Hajer A Al Saihati, Zahraa Alali, Faris Q Aleniz, Sabry Younis Mohamed Mahmoud, Omnia A Badr, Arigue A Dessouky, Ola Mostafa, **Noha I Hussien**, Ayman Samir Farid, Mohamed El-Sherbiny, Rabab F Salim, Nicholas Robert Forsyth, Fares EM Ali, Nimer F Alsabeelah. Exploring the molecular mechanisms of MSC-derived exosomes in Alzheimer's disease: Autophagy, insulin and the PI3K/Akt/mTOR signaling pathway

(26) Nesrine Ebrahim, Hajir A Al Saihati, Ola Mostafa, Amira Hassouna, Sameh Abdulsamea, Eman Abd El Aziz M. El Gebaly, Nashwa Hassan Abo-Rayah, Dina Sabry, Mohamed El-Sherbiny, Abdelmonem G Madboly, **Noha Ibrahim Hussien**, Raja El Hasnaoui Saadani, Hasnaa Ali Ebrahim, Omnia AM Badr, Nehal M Elsherbiny, Rabab F Salim. Prophylactic evidence of MSCs-derived exosomes in doxorubicin/trastuzumab-induced cardiotoxicity: beyond mechanistic target of NRG-1/erb signaling pathway. **2022. International Journal of Molecular Sciences 23 (11), 5967**

(25) **Noha I Hussien**, AM Mousa, AA Shoman. Decreased level of plasma nesfatin-1 in rats exposed to cell phone radiation is correlated with thyroid dysfunction, oxidative stress, and apoptosis. **2022, Archives of physiology and biochemistry, 1-7**

(24) **Noha I Hussien**, HI El-kerdasy, SM Sorour, AA Shoman. Chronic oestrogen deficiency induced by ovariectomy may cause lung fibrosis through activation of the renin-angiotensin system in rats. **2022, Archives of Physiology and Biochemistry, 1-10**

(23) MH Muhammad, **Noha I Hussien**, SK Elwia. Vitamin D Replacement Mitigates Menopause-Associated Dyslipidaemia and Atherogenic Indices in Ovariectomized Rats; A Biochemical Study. **2020, Experimental and Clinical Endocrinology & Diabetes .128 (03), 144-151**

(22) **Noha I Hussien**, MA Elawady, MM Elmaghrabi, MH Muhammad. Impact of Thymoquinone on Memory Deficit-associated with Global Cerebral Ischemia-Reperfusion Injury in Rats; Possible Role of PPAR- $\gamma$ . **2020, American Journal of Biomedical Sciences 12 (1)**

(21) **Noha I Hussien**, HS El-Wakeel, SM Souror, IA Ahmed. Alleviation of cardiac mitochondrial dysfunction and oxidative stress underlies the protective effect of vitamin D in chronic stress-induced cardiac dysfunction in rats. **2019, Gen Physiol Biophys. 38 (1), 51-61**

- (20) **Noha I. Hussien**<sup>1</sup>, Hend S. El-wakeel<sup>1</sup>, Safwa M. Souror<sup>2</sup> and Inas A. Ahmed<sup>3</sup> Alleviation of cardiac mitochondrial dysfunction and oxidative stress underlies the protective effect of vitamin D in chronic stress-induced cardiac dysfunction in rats *Gen. Physiol. Biophys.* (2019), 38, 51–61
- (19) Nesrine Ebrahim <sup>1,2</sup>, Inas A. Ahmed <sup>3,4</sup>, **Noha I. Hussien** <sup>5</sup>, Arigue A. Dessouky <sup>6</sup>, Ayman Samir Farid <sup>7,\*</sup>, Amal M. Elshazly <sup>8</sup>, Ola Mostafa <sup>1</sup>, Walaa Bayoumie El Gazzar <sup>3</sup>, Safwa M. Sorour <sup>9</sup>, Yasmin Seleem <sup>9</sup>, Ahmed M. Hussein <sup>10</sup> and Dina Sabry <sup>11,12</sup>: Mesenchymal Stem Cell-Derived Exosomes Ameliorated Diabetic Nephropathy by Autophagy Induction through the mTOR Signaling Pathway. *Cells* **2018**, *7*, 226; doi:10.3390/cells7120226.
- (18) **Hussien NI**, Sorour SM, El-kerdasy HI, Abdelrahman BA. The glucagon-like peptide-1 receptor agonist Exendin-4, ameliorates contrast-induced nephropathy through suppression of oxidative stress, vascular dysfunction and apoptosis independent of glycaemia. *Clin Exp Pharmacol Physiol.* **2018**;45:808–818. <https://doi.org/10.1111/1440-1681.12944>
- (17) **Noha I. Hussien**, Hanan I. El-kerdasy, and Mohammad El-tantawy Ibrahim. Protective effect of rimonabant, a cannabinoid receptor 1 antagonist, on nonalcoholic fatty liver disease in a rat model through modulation of the hepatic expression of activin A and follistatin. *Can. J. Physiol. Pharmacol.* **2017**.1-9.
- (16) **NI Hussien**, N Ebrahim, OM Mohammed, D Sabry. Combination of Obestatin and Bone Marrow Mesenchymal Stem Cells Prevents Aggravation of Endocrine Pancreatic Damage in Type II Diabetic Rats. *International journal of stem cells* **10** (2), 129
- (15) Nesrine Salem, Mohamed Y Salem, Mohammed M Elmaghrabi, Moataz A Elawady, Mona A Elawady, Dina Sabry, Ashraf Shamaa, Abdel-Haleem H Elkasapy, **Noha Ibrahim**, Azza Elamir. Does vitamin C have the ability to augment the therapeutic effect of bone marrow-derived mesenchymal stem cells on spinal cord injury? *Neural Regen Res.* **2017 Dec**; **12**(12): 2050–2058.
- (14) **NI Hussien**, AM Mousa. Could nitric oxide be a mediator of action of oxytocin on myocardial injury in rats?(Biochemical, histological and immunohistochemical study). *General physiology and biophysics.* **2016**. **35** (3), 353-362
- (13) MM Alaam, **NI Hussien**. A comparative study between the effect of 17-β estradiol and angiotensin converting enzyme inhibitor on osteoporosis in ovariectomized rats. *General physiology and biophysics.* **2016**. **35** (4), 433-441
- (12) **NI Hussien**, HT Emam. The potential protective effects of erythropoietin and estrogen on renal ischemia reperfusion injury in ovariectomized rats. *Alexandria Journal of Medicine.* **2015** **52** (4), 325-335
- (11) OA EL-Gohary, **NI Hussien**. Effect of exercise and quercetin on obesity induced metabolic and renal impairments in albino rats. *J Phys Pharm Adv.* **2015**. **5**, 589-602
- (10) **NI Hussien**, AA Shoman The protective role of vitamin E and angiotensin II receptor blocker in diabetic cardiomyopathy in male albino rats *Benha Medical Journal.* **2015**. **32** (1), 20
- (9) **NI Hussien**. Does Inhibition of Arginase and Advanced Glycation End Products Provide a Protection Against Experimentally Induced Diabetic Nephropathy? **2015**. *american journal of biomedical science.*
- (8) **NI Hussien**, Hepatoprotective Potentials of Ghrelin and/or N-acetyl Cysteine in Thioacetamide Induced Chronic liver injury in rats. **2015**. *cairo medical journal.*
- (7) **NI Hussien**, OA EL-gohary Effect of vitamin E on oxidative and apoptotic damage induced by streptozotocin in rat pancreas. *benha medical journal* **31** (1), 159-175
- (3) AA Shoman, **NI Hussien**, Cardiac apoptosis as a possible cause of diabetic cardiomyopathy

1-The possible anti-oxidant effect of vitamin D on renal ischemia reperfusion injury in male rats: role of peroxisome proliferator activated receptor(

2- Assessing cardioprotective effect of erythropoietin in uremic cardiomyopathy through modulation of nuclear factor kappa- $\beta$  and associated proinflammatory cytokines.

3- The Potential Protective Effect of Probiotics on High-Fat Diet-Induced Cardiomyopathy in Male Albino Rats; the Possible Role of Peroxisome Proliferator Activated Receptor- Gamma (PPAR- $\gamma$ ).

protective role of alpha lipoic acid and Losartan in diabetic rats INTERNATIONAL JOURNAL OF ADVANCED RESEARCH, 2014. 2 (11), 325-337

( 6 ) AAShoman, **Noha I. Hussien** Effect of Obesity and Passive Smoking on Biochemical and Histopathological Changes in Rat Liver and the Protective Effect of Exercise. Journal of **Exercise Physiology online** 16 (4), 101-111

(5) AASMD **NI Hussien** MD Hanan T. Emam M.D.1, Abd El Moneim G. Madbouly M.D.2 THE POSSIBLE PROTECTIVE ROLE OF CANDISARTAN ON CYCLOSPORINE INDUCED NEPHROTOXICITY IN RATS **the medical journal of cairo university** 2013.81 (1), 271-278

(3) IH Hanan T. Emam, Ghada A. Abd El Fattah **Noha I. Hussien** THE POTENTIAL BENEFICIAL EFFECTS OF PERINDOPRIL OVER CLONIDINE ON DIABETIC NEPHROPATHY IN RATS. **benha medical journal** 2013.29 (2), 205-226

( 2 ) Abeer A. Shoman, **Noha I. Hussien** Effect of Selenium on Carbimazole Induced Alterations in Testicular Function in Albino Rats **benha medical journal** 2012,29 (3), 599-61

(1) IH Hanan T. Emam, Ghada A. Abd El Fattah **Noha I. Hussien** , THE POTENTIAL BENEFICIAL EFFECTS OF PERINDOPRIL OVER CLONIDINE ON DIABETIC NEPHROPATHY IN RATS. **benha medical journal**.2012. 29 (2), 205-226

#### **PhD/M.Sc supervision:**

4-Effect of exercise and/or antioxidant on klotho gene mRNA expression during oxidative stress in renal tissue of albino rats.

5- Effect of exercise and/or antioxidant on klotho gene mRNA expression during oxidative stress in rats cardiac tissue.

6- The potential effect of vitamin D on rats with fatty liver induced by choline deficient diet.

7- The potential protective effect of caloric restriction on insulin resistance induced by high fructose diet: the role of autophagy.

8- Effect of vitamin D and/or exercise on lipid profile, insulin resistance and blood pressure on ovariectomized female rats.

9- Role of (isoflavone) on memory in rat model of surgically induced menopause; possible role of glutamate and gamma amino butyric acid.

**10-**Assessing cardioprotective effect of erythropoietin in uremic cardiomyopathy through modulation of nuclear factor kappa- $\beta$  and associated proinflammatory cytokines