

Professor Dr. Zein Shaban Ibrahim
C.V.



Name: **Zein Shaban Ibrahim**

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Date of Birth: *January 10, 1966*

Status: Married, with 3 children

Nationality: *Egyptian*

Scientific Qualifications:

<i>Certificate& specialty</i>	<i>University</i>	<i>Country</i>	<i>Date</i>
<i>Ph.D. of Veterinary Medical Sciences(Physiology& Molecular Biology major).</i>	<i>Hokkaido</i>	<i>Japan</i>	<i>March, 2005</i>
<i>Master of Veterinary Medical Sciences(Physiology major).</i>	<i>KaferElSheikh</i>	<i>Egypt</i>	<i>1996</i>
<i>Bachelor of Veterinary Medical Sciences with a rank of very good</i>	<i>Zagazig</i>	<i>Egypt</i>	<i>May, 1991</i>

Specialty: Physiology and Molecular Biology

Present title: *Professor of Physiology, Department of Physiology, Faculty of Veterinary Medicine, Kafer, El-Sheikh University, Egypt*

Linguistic skills: *Mastery of English, Japanese and Arabic languages as shown in the table*

Language	Reading	Writing	Conversation	Certificates
English	Excellent	Excellent	Excellent	International TOEFL
Japanese	Good	Good	Very good	Certificate from Japanese language center, Hokkaido Univ. Japan
Arabic	Excellent	Excellent	Excellent	Mother language

Courses have been taught to under-graduate students and post-graduate (diploma, Master and Ph.D. students):

I. Molecular biology

- a) Nucleic acids: structure and function*
- b) DNA replication and repair*
- c) RNA synthesis and splicing*
- d) Protein synthesis and targeting*
- e) Control of gene expression*
- f) Molecular cloning and gene sequencing*

II. Basic physiological and molecular biology techniques

- *Complete Blood analysis*
- *Analysis of ovarian function*
- *Semen analysis*
- *Hormone analysis*
- *Pregnancy diagnosis*
- *Measurement of Nerve and muscle function*
- *SDS-PAGE*
- *Western blot analysis*
- *RNA and DNA extraction and RT-PCR, and real-time PCR*
- *Gene cloning and sequencing*

- *ELISA*

III. Courses I have Taught In Physiology

1. *Cell physiology, cell structure and metabolism*
2. *Physiology of Nervous system*
3. *Physiology of Autonomic Nervous system*
4. *Physiology of Nerve and Muscle*
5. *Physiology of Blood and Body defenses*
6. *Physiology of Cardiovascular system*
7. *Physiology of Respiratory system*
8. *Physiology of Urinary system*
9. *Physiology of comparative Digestive system*
10. *Endocrinology*
11. *Physiology of Male Genital system*
12. *Physiology of Female Genital system*
13. *Physiology of Lactation*
14. *Physiology of Growth*
15. *Physiology of Poultry*
16. *Fish Physiology*

AWARDS.

1. *A post doctoral fellowship for 2 years awarded by the Japan Society For the Promotion of Science (JSPS) in the period, September 2005-September2007.*
2. **The University award for international scientific publication 2009 from Kafer El-Sheikh University**
3. **The University award for international scientific publication 20011 from Taif University, KSA**
4. **The University award for international scientific publication 20012 from Taif University, KSA**
5. **The University award for international scientific publication 20013 from Taif University, KSA**
6. **The University award for international scientific publication 2014 from Kafer El-Sheikh University**

Professional activities

- *Microsome isolation from rats, horse, cattle, and camel tissue*
- *Spectrophotometry*
- *SDS-PAGE and Western blot analysis*
- *RT-PCR, and real-time PCR*

- *Gene cloning and sequencing:*
- *ELISA*
- *Cell culture skills*
- *Gene cloning and Plasmid extraction*
- *Cell transefection and Gene transcriptional study by luciferase assay*
- *Liver and blood cytokine analysis (TNF-alpha, IL-1B, IL-6)*
- *Good experience in the research area of cell signaling*
- *Good experience in the research area of receptor interaction*
- *Good experience in the research area of Cytochrome P450*
- *Good experience in the research area of toxicology*
- *Good skills in animal diseases diagnosis and treatment*

I. I Have participated in the following conferences,

1. **Zein Shaban Ibrahim**, Ishizuka M, Sakamoto K and Fujiata S. ***Negative Cross-Talk between PPAR α and AhR Mechanism of CYP2B induction by PPAR α ligand.*** *The 125th Annual Meeting of the Pharmaceutical Society of Japan, March 29-31,2005, Tokyo Japan.*
2. **Zein Shaban Ibrahim**, Gihan Mustafa, Ishizuka M, Sakamoto K and Fujiata S. ***Downregulation of Cytochrome P450 by profenofos.*** *The 142nd Annual Meeting of Japanese Society of Veterinary Science, September 21-24, 2006 Yamagochi, Japan.*
3. **Zein Shaban Ibrahim**, Ishizuka M, Sakamoto K and Fujiata S. ***Mechanism of modification of AhR and Car target cytochrome P450 genes expression by PPAR alpha ligand.*** *The 13th International Symposium on Toxicology Assessment, August 19-24,2007, Toyama,Japan*
4. **Zein Shaban Ibrahim** and Shawky A Mahamoud. ***Environmental interaction with Nuclear receptors and the physiological impacts.*** *The 3rd scientific conference of the society physiological sciences and their application, July 28-31,2005.*
5. **Zein Shaban Ibrahim** and Shawky A Mahamoud. ***An update of the molecular understanding of Diabetes Mellitus.*** *The 6th scientific conference of the society physiological sciences and their application, November 5-8, 2008.*

6. Mohamed AHMED, **Zein S Ibrahim**, M.M.Soliman, S.A. Elshazly and A. F.El-kirdasy. ***Immunomodulatory effect of nigella sativa on bovine peripheral blood mononuclear cells.*** The 5th scientific conference, faculty of Sadat veterinary Medicine Minufiya University, April 22-24, 2008.
7. **Zein Shaban Ibrahim**. (The dangerous of Cigarette smoking on health and economy). A public lecture held at Kafer El-Sheikh University. March,25, 2008,
8. Participated in **KAIZEN** Management Workshop with the Japan Cooperation Center for the Middle East. March 22,2008, Cairo, Egypt
9. **Zein Shaban Ibrahim** (***Protective Effect of L-Carnitine Against γ -Irradiation-Induced Tissue Damage in Mice***) The 27th annual meeting of Saudi biological Society held at Gazan University March 6-8,2012.
10. **Zein Shaban Ibrahim** (***Constitutive Androstane Receptor-dependent induction of CYP2B by Clofibrac Acid in Wistar Rats***) The 28th annual meeting of Saudi biological Society held at Hael University April 9-11,2013
11. **Zein Shaban Ibrahim** (***Evaluation of Vanadyle-thiamine complex as an anti-diabetic agent***) The 29th annual meeting of Saudi biological Society held at Hael University Febraury 25-27,2014
12. **Zein Shaban Ibrahim** (***effects of curcumin against combined oxidative stress of diabetes and nicotine in rats***) The 30th annual meeting of Saudi biological Society held at Hael University April 7-9,2015.

❖ II. Skills and experience

➤ Computer Skills

➤ ***Very good computer skills***

Mastering of the following programs:

- *Microsoft Word, Microsoft Excel and Microsoft PowerPoint*
- *Photoshop*
- *Cricket Graph*
- *Canvas8*
- *Scion image*
- *StatView (statistical program)*
- *SPSS (statistical program)*

- *GENETX-MAC 10.1 (Molecular biology program)*
- *Amplify 1.2(Molecular biology program)*
- *OLIGO 4(Molecular biology program)*
- *Sequencing Analysis(Molecular biology program)*



Mastering of the following Molecular Biology & Biotechnology techniques:

- *SDS-PAGE and Western blot analysis*
- *RT-PCR, and real-time PCR*
- *Gene cloning and sequencing:*
- *ELISA*
- *Cell culture skills*
- *Good experience in the research area of cell signaling*
- *Good experience in the research area of receptor interaction*
- *Good experience in the research area of Cytochrome P450*
- *Good experience in the research area of toxicology*

Professional memberships

- *Member of Japanese Society of Veterinary Medical association, Tokyo, Japan.*
- *Member of the Syndicate of veterinary medical doctors Egypt.*
- *Member of the Society of physiological sciences and their application, Faculty of Veterinary Medicine, Cairo University, Egypt.*
- *Member of the Saudi biological society*

List of publications

1. Sara A Assiri, Raad M M Althaqafi, Khaled Alswat, Ahmed Abdullah Alghamdi, Naif E Alomairi, Dalal M Nemenqani, **Zein S Ibrahim**, and Ahmed Elkady. (2022). Post COVID-19 Vaccination-Associated Neurological Complications. *Neuropsychiatr Dis Treat.* 2022; 18: 137–154
2. Mostafa Abdelsalam, Raad M. M. Althaqafi, Sara A. Assiri, Taghreed M. Althagafi, Saleh M. Althagafi, Ahmed Y Fouda, Ahmed Ramadan, Mohammed Rabah, Reham M. Ahmed, **Zein S. Ibrahim**, Ahmed N. Alghamdi, Dalal M. Nemenqani, Daifullah Al Aboud, Ahmed Sayed Abdel-Moneim and Adnan Amin Alsulaimani(2021). Clinical and laboratory findings of COVID-19 high altitude inhabitants in Saudi Arabia. *Journal: Frontiers in Medicine, section Pulmonary: 8: 670195*, doi: [10.3389/fmed.2021.670195](https://doi.org/10.3389/fmed.2021.670195)
3. Mohamed Mohamed Soliman, Mohamed Mohamed Ahmed, Hanan Basiouni El-Sawy, **Zein Shaban Ibrahim**, Samir Ahmed El-Shazly.(2018). Effect of ginger

extract and L-carnitine on the expression of genes related to lipids and carbohydrates metabolism. *BIOSCIENCE RESEARCH*.15, 4381-4389.

4. [Zein Shaban Ibrahim](#), Mohamed Mohamed Soliman, shawky abdelhady Mahmoud , Mustafa shukry (2017) Cardioprotective effect of curcumin against diabetes and nicotine-induced oxidative stress . *African journal of tradition complementary alternative medicine in press*
4. Adel Alkhedaide Mohamed Mohamed Soliman [Zein Shaban Ibrahim](#) (2016).Carbonated soft drinks alter hepatic cytochrome P450 isoform expression in Wistar rats, *Biomedical Reports*
5. [Zein Shaban Ibrahim](#), Mohamed Alkafafy, Mohamed Mohamed Soliman, Mohamed Mohamed Ahmed. (2016) Molecular mechanism of hepato-renal protection of camel milk against oxidative stress-perturbations, *Journal of Camel Practice and Research* . 23 (1) 53-63.
6. [Zein Shaban Ibrahim](#), Mohamed Mohamed Ahmed, Samir Ahmed El-Shazly, Mohamed Elsayed Alkafafy . (2016). Effects of camel milk on drug metabolising cytochrome P450 enzymes expressions in rats. *Journal of Camel Practice and Research* . 23 (1) 25-32.
7. Essam Hassan Mohamed, Ahmed Abdel-Aziz Baiomy, [Zein Shaban Ibrahim](#), Mohamed Mohamed Soliman, 2016. Modulatory effects of levamisole and garlic oil on the immune response of Wistar rats: Biochemical, immunohistochemical, molecular and immunological study. *Molecular medicine reports*. 14 (3) 2755-2763
8. [Zein Shaban Ibrahim](#) Mohamed Abdo Nassan Mohamed Mohamed soliman (2016) Ameliorative effects of pomegranate on carbon tetrachloride hepatotoxicity in rats: A molecular and histopathological study *Molecular Medicine report*. 13 (4) 3653-3660
9. [Zein Shaban Ibrahim](#), Mohamed Elsayed Alkafafy , Mohamed Mohamed ahmed, Mohamed Mohamed Soliman. (2016). Renoprotective effect of curcumin against the combined oxidative stress of diabetes and nicotine in rats. *Molecular Medicine Reports*, 13, 3017-3026.
<https://doi.org/10.3892/mmr.2016.4922>
10. [Zein Shaban Ibrahim](#) (2015). Chenodeoxycholic acid increases the induction of CYP1A1 in HepG2 and H4IIE cells. *Experimental and therapeutic medicine* 10 (5), 1976-1982.
11. Samir AhmedEl_Shazly, Mohamed Mohamed ahmed, [Zein Shaban Ibrahim](#) , Momen S.Refat. (2015). Synthesis, characterization, and efficacy evaluation of a new anti-diabetic vanadyl (II) thiamine hydrochloride complex in streptozotocin-induced diabetic rats. *International journal of immunopathology and pharmacology* 28 (2), 227-239.
12. Mohamed Elsayed Alkafafy [Zein Shaban Ibrahim](#) Mohamed Mohamed ahmed , Samir AhmedEl_Shazly. (2015). Impact of aspartame and saccharin on the rat liver: Biochemical, molecular, and histological approach. *International journal of immunopathology and pharmacology*, 0394632015586134
13. Mohamed Mohamed ahmed, [Zein Shaban Ibrahim](#) Mohamed Alkafafy, Samir AhmedEl_Shazly L-Carnitine protects against testicular dysfunction caused by gamma irradiation in mice. *Acta histochemica* 116 (6), 1046-1055

14. [Zein Shaban Ibrahim](#) Mohamed Mohamed Ahmed Samir Ahmed El-Shazly Mayumi Ishizuka and Shoichi Fujita. Clofibrac Acid induces Hepatic CYP 2B1/2 via Constitutive Androstane Receptor not via Proxosome proliferated receptor alpha in Rat . Bioscience, biotechnology, and biochemistry 78 (9), 1550-1559
15. [Zein Shaban Ibrahim](#), Mohamed Mohamed Ahmed, Mustafa Shukry, Shawky Mahmoud and Mayumi Ishizuka. Constitutive androstane receptor dependent and independent modulation of CYP3A2, CYP1A2 by phenobarbital and fibrate in rats' liver. American Journal of Biochemistry and Biotechnology, 2013 Volume 9, Issue 3 Pages 272-281
16. El-Sayed El-Badrawy, [Zein Shaan. Ibrahim](#), AmalAbedel Aziz, Mahmoud M Kame, Gaber M Shehab, and Ayman Kamal. Association of Vitamin D Receptors Genes Polymorphism (Apa I, and Taq I) with type 1 diabetes in Saudi Arabia (KSA). Life Science Journal 2013;10 (3).
17. Mohamed Mohamed Soliman and [Zein Shaban Ibrahim](#). Biochemical alterations induced by amylin in wistar rats. American Journal of Pharmacology & Toxicology Volume 8, Issue 2, Pages 64-72
18. [Zein Shaban. Ibrahim](#), Mahmoud M Kamel, Amal Abdel Aziz, Afaf S. osman , Marrowa Salah and Dalal M Nemenqani. Potential role of RBCs and activated platelets in the thalassemic hypercoagulable state. J of American science. 2013;9(5): 518-524].
19. Samir AhmedEl_Shazly, Mohamed Mohamed ahmed, Hassan e Hassan, [Zein Shaban Ibrahim](#). Protective effect of L-carnitine against gamma rays irradiation-induced testicular damage in mice. *American J of biochemistry and molecular biology* 2 (3) 120-132, 2012
20. Mohamed R. E. Aly, El_Sayed I. Ibrahim, Fakher A. El Shahedb, Hamdy A. Soliman, [Zein Shaban. Ibrahim](#), and Samir A. M. El_Shazly. Synthesis of some quinolinyl chalcone analogues And investigation of their anticancer And synergistic anticancer effect with doxorubicin. *Journal of Biokhim*, 38, 2012, (1-7)
21. Mohamed Mohamed Soliman Afaf Desoky Abdel-Magied Omniya Mahmoud Abdel Hamid' [Zein Shaban Ibrahim](#). Acute Phase Proteins, Immunoglobulins and Cytokines Responses to Amylin Injection in Wister Rats. *Global Journal of Biotechnology and Biochemistry* 6(3)112-118,2011
22. Mohamed soliman, [Zein Shaban Ibrahim](#), mohamoud Mohamed kamel. Amylin modulates adiposity and obesity related cytokines expression in Wister rats. Mohamed .*J. of medical molecular biotechnology* 9(1):1-14,2011

23. Mohamed Mohamed Soliman, Zein Shabaan Ibrahim, Abeer Abdel Aleem Abdel Aal and Randa Saad Ismaeil. Modulation of Cytokines, Adiponectin and Leptin Expression in Mature Bovine Adipocytes by Serotonin. Australian Journal of Basic and Applied Sciences, 4(6): 1157-1164, 2010
24. Eman A Abd Elaziz, Zein Shaban.Ibrahim and Azza M.Elkattawy. Protective Effect of Curcuma longa Against CCl4-induced oxidative stress and cellular degeneration in rats. Global Veterinaria 5 (5): 272-281, 2010
25. Darwish WS, Morshdy AE, Ikenaka Y, Zein Shaban.Ibrahim, Fujita S, Ishizuka M. Expression and sequence of CYP1A1 in the camel J Vet Med Sci. 2010 Feb;72(2):221-4
26. Zein Shaban.Ibrahim, Ishizuka M, Soliman M, ElBohi K, Sobhy W, Muzandu K, Elkattawy AM, Sakamoto KQ, Fujita S. *Jpn J Vet Res. 2008 Nov;56(3):119-28.* Protection by Nigella sativa against carbon tetrachloride-induced downregulation of hepatic cytochrome P450 isozymes in rats.
27. M. M. Ahmed, Zein Shaban.Ibrahim, M. M. Soliman, S. A. El-shazly and A. F. El-Kirdasy. *Minufiya Vet. J. 2008; 5:353-367.* Immunomodulatory effect of nigella sativa on bovine peripheral blood mononuclear cells.
28. Moustafa GG, Zein Shaban.Ibrahim, Ahmed MM, Ghoneim MH, Sakamoto KQ, Ishizuka M, Fujita S. Downregulation of male-specific cytochrome P450 by profenofos. *Jpn J Vet Res. 2008 Aug;56(2):109-18.*
29. Refat NA, Zein Shaban.Ibrahim, Moustafa GG, Sakamoto KQ, Ishizuka M, Fujita S. The induction of cytochrome P450 1A1 by sudan dyes. *J Biochem Mol Toxicol. 2008; 22(2):77-84.*
30. Mohamed soliman, a. Desoki, Zein Shaban.Ibrahim, k. Kimura, k. Kheilo and i. Fattouh. 2008. Leptin responses to bovine interferon and insulin in cattle. *Egyptian Journal of Biochemistry, 2007*
31. Zein Shaban.Ibrahim, Ishizuka M, Soliman M, ElBohi K, Sobhy W, Muzandu K, Elkattawy AM, Sakamoto KQ, Fujita S. Protection by Nigella sativa against carbon tetrachloride-induced downregulation of hepatic cytochrome P450 isozymes in rats. *Jpn J Vet Res. 2008 Nov;56(3):119-28.*
32. Mohamed M Soliman and Zein Shaban.Ibrahim. 2007. Expression profiles of adipogenesis derived genes during differentiation of abdominal bovine preadipocytes. *Journal of Medical Molecular Biotechnology 4, 4:51-66 (Egypt).*

33. Moustafa GG, **Zein Shaban.Ibrahim**, Hashimoto Y, Alkelch AM, Sakamoto KQ, Ishizuka M, Fujita S. Testicular toxicity of profenofos in matured male rats. *Arch Toxicol.* 2007 Jun 14;
34. Ahmed M, **Zein Shaban.Ibrahim**, Yamaji D, Okamatsu-Ogura Y, Soliman M, Abd Eldaim M, Ishioka K, Makondo K, Saito M, Kimura K. Induction of proinflammatory cytokines and caspase-1 by leptin in monocyte/macrophages from holstein cows. *J Vet Med Sci.* 2007 May;69(5):509-14.
35. Muzandu K, Ishizuka M, Sakamoto KQ, **Zein Shaban.Ibrahim**, El Bohi K, Kazusaka A, Fujita S. Effect of lycopene and beta-carotene on peroxynitrite-mediated cellular modifications. *Toxicol Appl Pharmacol.* 2006 Sep 15;215(3):330-40.
36. Muzandu K, **Zein Shaban.Ibrahim**, Ishizuka M, Kazusaka A, Fujita S. Nitric oxide enhances catechol estrogen-induced oxidative stress in LNCaP cells. *Free Radic Res.* 2005 Apr;39(4):389-98.
37. Muzandu K, El Bohi K, **Zein Shaban.Ibrahim**, Ishizuka M, Kazusaka A, Fujita S. Lycopene and beta-carotene ameliorate catechol estrogen-mediated DNA damage. *Jpn J Vet Res.* 2005 Feb;52(4):173-84.
38. El Bohi KM, Sabik L, Muzandu K, **Zein Shaban.Ibrahim**, Soliman M, Ishizuka M, Kazusaka A, Fujita S. Antigenotoxic effect of *Pleurotus cornucopiae* extracts on the mutagenesis of *Salmonella typhimurium* TA98 elicited by benzo[a]pyrene and oxidative DNA lesions in V79 hamster lung cells. *Jpn J Vet Res.* 2005 Feb;52(4):163-72.
39. **Zein Shaban.Ibrahim**, Soliman M, El-Shazly S, El-Bohi K, Abdelazeez A, Kehelo K, Kim HS, Muzandu K, Ishizuka M, Kazusaka A, Fujita S. AhR and PPARalpha: antagonistic effects on CYP2B and CYP3A, and additive inhibitory effects on CYP2C11. *Xenobiotica.* 2005 Jan;35(1):51-68.
40. **Zein Shaban.Ibrahim**, El-Shazly S, Abdelhady S, Fattouh I, Muzandu K, Ishizuka M, Kimura K, Kazusaka A, Fujita S. Down regulation of hepatic PPARalpha function by AhR ligand. *J Vet Med Sci.* 2004 Nov;66(11):1377-86.
41. **Zein Shaban.Ibrahim**, El-Shazly S, Ishizuka M, Kimura K, Kazusaka A, Fujita S. PPAR alpha-dependent modulation of hepatic CYP1A by clofibrilic acid in rats. *Arch Toxicol.* 2004 Sep;78(9):496-507. 2004 May.