

Gouda Kamel Abdel-Bary Ali Helal (PhD)

Associate Professor of Pharmacology and Toxicology

Faculty of Pharmacy, King Saud University., Saudi Arabia.

Curriculum Vitae

(2007)

Gouda Kamel Abdel-Bary Ali Helal (PhD)

Associate Professor of Pharmacology and Toxicology.
Faculty of Pharmacy., King Saud University., Saudi Arabia.



Birth date 24/1/1962

Marital status Married.

Phone number 0559145435 - 14677261.

E-mail goudahelal@yahoo.com

Present job Associate Professor of Pharmacology and Toxicology., Faculty of Pharmacy.
King Saud University., Saudi Arabia.

Education **PhD.(Pharmacology) .**
Under Egyptian/American channel program .(1993-1998)
(Metallothionein in:oxidative stress, apoptosis and anticancer agents)

Courses:

• Experimental therapeutics	• Apoptosis
• DNA technology	• Molecular pharmacology
• Immunohistochemistry	• Immunopharmacology
• Radiation safety	• Tissue culture

MSc. .(Pharmacology).

Al-Azhar University .,Cairo.,Egypt (1985-1993).

(Pharmacological study on some novel antidepressant drugs)

Courses:

• Organic chemistry	• Physiology
• Physical chemistry	• Instrumental analysis
• Computer sciences.	• Statistics
• Chemotherapy	• Clinical nutrition
• Language (English)	

Bachelor of Pharmaceutical sciences.

BSc.(very good with the degree of honor).

Zagazig University.,Zagazig.,Egypt (1980-1985).

**Attended
training
courses**

- "Evaluation of Brain Monoamines " at National Cancer Institute(Egypt,1992)
- " Immunohistochemistry" at University of Nebraska Medical center(UNMC) (USA,1995)
- "Tissue culture" at University of Nebraska Medical center(UNMC) (USA,1995)
- "Radiation Safety " at University of Nebraska Medical center(UNMC) (USA,1996)
- "Molecular Biology (Identification and isolation of RNA and DNA adducts)" at Epply Cancer Institute ,UNMC. (USA, 1997)
- "Western Blotting Analysis" at University of Nebraska Medical center(UNMC) (USA,1996)
- ELIZA assay for metallothionein. " at University of Nebraska Medical center(UNMC) (USA,1996).
- ◆ Microinjection in different brain regions using stereotaxic frame.

Ass. Prof. of Pharmacology and Toxicology:

Employment history *Faculty of Pharmacy., King Saud University., Saudi Arabia.
(Sept.2005- Present).*

- Participating in teaching the courses PHL 473.; PHL291.; PHL471 .; PHL 452.; PHL 462 for undergraduate pharmacy students.
- Participating in teaching the course PHL 551 and PHL541 for post-graduate pharmacy students.
- Teaching the course 366 (Pharmacology) for undergraduate students.; Faculty of Applied Medical Sciences (*Nursing*).
- Participating in teaching the practical part of the course PHL 451 for Undergraduate pharmacy students.
- Participating in research activity of the department of pharmacology and toxicology, Faculty of Pharmacy, King Saud University., Saudi Arabia.

Ass. Prof. of Pharmacology and Toxicology:

*Faculty of Pharmacy., Al-Azhar University .; Cairo .,Egypt.
(June 2004- Sept.2005).*

- Participating in teaching Pharmacology for second and third year students and Toxicology and Bioassay for fourth year students in both boys and girls Faculties of Pharmacy, Al-Azhar University, Cairo, Egypt.
- Participating in research activity of the department of pharmacology and toxicology, Faculty of Pharmacy, Al-Azhar University ,Cairo ,Egypt.
- Foundation of under graduate students pharmacology and physiology laboratories ,Faculty of Pharmacy ,Modern Sciences and Arts University, 6 Oct. city, Egypt.
- Edition and coordination of pharmacology and toxicology courses for pharmacy students in MSA (Modern Sciences and Arts) University., 6 Oct. city., Egypt.(validated by Greenwich University., United Kingdom).
- As an external examiner for pharmacy students in Ain Shams , Cairo .Zagazig Helwan , Tanta , Suez Canal , El- Mansoura Alexandria and 6 October universities.

Lecturer of Pharmacology and Toxicology :

Faculty of Pharmacy, Al-Azhar University, Cairo, Egypt (1998-2004).

- Teaching for under graduate pharmacy students in Faculty of Pharmacy (boys and girls), Al-Azhar University, Cairo, Egypt.
- Researches on oxidative stress insults and possible protection by different antioxidants including:
 - Role of zinc in protection against ovariectomy-induced stress.
 - Protection of the kidney from diabetes – induced complications.
 - Influence of *p*-coumaric acid against doxorubicin-induced oxidative stress in rat heart.
 - Role of N-acetylcystein (NAC) in potentiation of the vasorelaxant effect of amlodipine in renal hypertensive rats.
 - Mechanism of stress-induced immune cell dysfunction; Relevance to a possible proection.
- Researches on monoamines including:
 - Modulation of brain contents by sumatriptan.
 - Modulation of serum contents after exposure to microwaves from mobile rely station.
- Modified method for detection of apoptosis.
- Co-supervision on PhD and MSc students in faculties of medicine and pharmacy in Al-Azhar, Zagazig, Ain Shams and 6 Oct. universities.

PhD Research Student : (1995-1997).

*Department of Neuropharmacology , and Epply Cancer Institute
University of Nebraska, Medical Center (UNMC) Omaha ,NE,USA.*

- Induction of brain metallothionein by intracerebroventricular injection of zinc.

- Studying the role of metallothionein in :
 - Brain tumor progression After implantation of C6 glioma cells.
 - Chemotherapy for solid brain tumors with semustine.
 - Alcohol intoxication.
 - Apoptosis.
- The role of antiapoptotic gene bcl-2 in protection of cerebellum against oxidative stress insults.
- Isolation and identification of RNA and DNA adducts.

Assist. Lecturer of pharmacology and toxicology :

Faculty of Pharmacy, Al-Azhar University(1993-1998).

- Participation in the foundation of research laboratory in the Faculty of Pharmacy ,Al-Azhar University , Cairo ,Egypt.
- Participation in teaching of practical work for undergraduate students In pharmacology and toxicology department, Faculty of Pharmacy, Al-Azhar University.

Demonstrator of pharmacology and toxicology:

Faculty of Pharmacy, Al-Azhar University (1986-1993).

- Participation in teaching of practical work for undergraduate students In pharmacology and toxicology department, Faculty of Pharmacy, Al-Azhar University.
- Studying the effects of trazodone on brain monoamines and serum steroidal hormones.

Experiences**Research experience:**

- Diverse experience in evaluation of drug activity and toxicity on different body organs and tissues .
- Determination of brain monoamines
- Evaluation of apoptosis.
- ELISA assay.
- Isolated organ preparations.
- Bioassay techniques.
- Western blotting analysis.
- Immunohistochemical studies.
- Identification and isolation of DNA and RNA adducts.
- Diverse experience in drug targeting to different brain areas .

Teaching experience:

1- Delivery of academic pharmacology and toxicology education courses for undergraduates, the courses include:

- Basic pharmacology.
- Toxicology (general, chemical and genetic).
- Clinical pharmacology.
- Chemotherapy.
- Biostatistics .

2- Edition and coordination of pharmacology and toxicology courses for pharmacy students in MSA (Modern Sciences and Arts) University., 6 Oct.city. Egypt. (validated by Greenwich University., United Kingdom).

3-Experience in teaching Pharmacology for second and third year students and Toxicology and Bioassay for fourth year students in both boys and girls Faculties of Pharmacy, Al-Azhar University ,Cairo ,Egypt.

4-Experience in teaching Clinical Pharmacy for first year students in the Faculty of Pharmacy (Modern Sciences and Arts) University.,6 Oct. City., Egypt.

- 5-Experience in teaching the courses PHL 473.; PHL291 .; PHL471.;PHL472 .;PHL462 and PHL 452 for undergraduate pharmacy students.
teaching the courses PHL 551 and 541 for post-graduate pharmacy students .; Faculty of Pharmacy., King Saud University., Saudi Arabia.
- 6-Teaching the course 366 (Pharmacology) for undergraduate students.; Faculty of Applied Medical Sciences (*Nursing*).
- 7-Experience in teaching the practical part of the course PHL 451 for undergraduate pharmacy students.

Supervision on post-graduate students:

- 1-PhD.thesis .,Faculty of Medicine ,Zagazig Univ.(Granted 2001).
(*Pharmacological study of some actions of sumatriptan on experimental animals*)
- 2-MSc. thesis., Faculty of Pharmacy (boys),Al-Azhar Univ.(Granted 2004)
(*Pharmacological trials against experimentally-induced liver toxicity*).
- 3- MSc. thesis., Faculty of Pharmacy (boys),Al-Azhar Univ.(Granted 2006).
(*Possible neuroprotective effect of melatonin against chemically-induced neuronal damage*).
- 4-MSc.thesis.,Faculty of Pharmacy (boys),Al-Azhar Univ.(Registered 2002).
(*Toxicity of some nitriles:Cytological and molecular effects*).
- 5- MSc. thesis.,Faculty of Pharmacy (girls),Al-Azhar Univ.(Registered 2003).
(*The possible effect of some antioxidants against parental nutrition -induced organ damage*).
- 6- MSc. thesis., Faculty of Pharmacy (boys),Al-Azhar Univ.(Registered 2004).
(*The possible protective role of Arabic gum against cyclosporine-induced apoptosis in rat splenocytes.*)
- 7-MSc. thesis.,Faculty of Pharmacy (boys),Al-Azhar Univ.(Registered 2004).
(*The possible protective effects of thiol compounds against myelotoxicity induced by carmustine.*
- 8- MSc. thesis., Faculty of Pharmacy, Dept. of Pharmacology, King Saud Univ.
(*Role of metallothionein in carmustine-induce hepatotoxicity in cerebellar glioma-bearing rats*).

Publications

1-Helal G.K .**Systemic administration of Zn²⁺ during reperfusion phase of transient cerebral ischemia protects rat hippocampus against iron – catalyzed post-ischemic injury(Accepted by CEPP journal, nov.2007.**

2-Helal G.K .**Protective effect of metallothionein against calcium-mediated apoptosis induced by carmustine in cerebellar glioma model. (In Preparation).**

3- Taha R.A., Ali.O.S.,Abdulla.w.,Helal.G.K., Tohamy.K.M.and Hama F.M.**Long-term exposure to microwaves of cell phone relay station: effect on redox status in vital organs and serum monoamines. *Egypt.J.Biomed.Sci* .2005**

4-Helal G.K., Badary O.A., Abdel-wahab M.H., Abdel-Baky M.S and Hamada F.M. **Chemoprotective effect of probucol against diethylnitrosamine-induced hepatotoxicity (Under Publication).**

5- Helal G.K., Mohammad R.A., Abdel-wahab M.H., Gaber A and Hamada F.M.**Possible neuroprotective effect of melatonin against chemically-induced neuronal damage .(Under Puplication).**

6- Helal G.K and G.H.Tawfeek G.H. **Over expression of metallothionein reduces severity of diabetes- induced complications in the kidney of rats. *Az.J.Pharm.Sci.*,31:52-65;Dec.2003.**

7- Abd-Allah A.R.A,Helal G.K ,El-Morsy.E and.Hamada FM.A.**Mechanism of stress-induced immune cell dysfunction; Relevance to a possible protection, *AAMJ.*,1(3):1-15.,Sept.,2003.**

8-.Abdel-Wahab M.H;Khalifa; F..El-Mahdy;M..A.Abdellh M.F;Helal G.K and Hamada F.M.A. **Influence of *p*-coumaric acid against doxorubicin-induced oxidative stress in rat heart.,*Pharmacol.Res.*,48:461-465;Jun.2003.**

- 9- Kamel S.M;Awwad I.A.;El-Gendy G and Helal G.K. .**Could N-acetylcystein (NAC) potentiate the vasorelaxant effect of amlodipine in renal hypertensive rats?**.; *ZUM.*,3(5):1278-1297.,Sept.2002.
- 10-.Abdel-Hady E ;Ibrahim M.N;Khorshid N.A ;Helal G.K and Abdel-Hamid A.E. **Pharmacological study of some actions of sumatriptan on experimental animals.**; *ZUM.*,134-148.,Dec.2001.
- 11- El-Sayeh B.M; Helal G.K ;Helal O.K;Abd-allah A.R and Hamada F.M.A. **Protective role of zinc against ovariectomy –induced changes in the liver of rats.**; *Egypt.J.Biomed.Sci.* 6:91-103.,Oct.2000.
- 12- Ebadi M;R.M.Bshir R.M ;.Heidrick M.L; Hamada F.M; El- Refaey H.; Hamed A; Helal G ;Baxi M.D ;Cerutis D.R and Lasi N.K. **Neurotropins and their receptors in nerve injury and repair.**; *Neurochem.Int.* 30:347-374.,April/May.1997.
- 13- Hamada,F.M.A.,Shouman.S.A.,Mostafa,A.M., Abdel-Aziz,A.H and Abdel-Bary,G.K. **Does trazodone Hcl modulate the relationships between brain monoamines and serum steroid hormones.** *J.Biomed.Sci.Ther.*,9(2):137-151., 1993.

Scientific meetings

Attendance and presentation in the following scientific meetings:

- 1-American Society For Neuroscience.;1996 Annual Meeting.,
Washington D.C.,Nov.,1996.

a-The effects of ethanol on the expression of brain metallothionein and cytochrome P4502E1.

b-The expression, regulation and functions of hippocambal specific metallothionein isoform.

- 2-ASEPT 1997 meeting.,San Diago,California,USA.;March,1997.

-Ethanol induces the activity of hippocampal cytochrome P4502E1 and the level of metallothionein.

3-American Society for Experimental Biology.,USA.,December,1997.

-Metallothionein and antioxidant protection in aging brain.

4-American Society for Neuroscience (27th Annual Meeting),Oct.,1997.New Orleans,USA.

-The role of BCL-2 and metallothionein in development of resistance to antineoplastic agents.

5-The Annual Meeting of Egyptian Society of Toxicology.,April,1998.Cairo, Egypt.

-Ethanol intoxication induces oxidative stress and modulates the natural defense mechanisms in rat brain.

6- Egyptian Society of Clinical Chemistry,45th Scientific International Meeting.Cairo.,Dec.1998.

-Mechanism of stress-induced immune cell dysfunction; Relevance to a possible protection.

7-Second International Conference for Biotechnology.Cairo,Egypt.,1998.

8- International Conference of Egyptian Society of Pharmacology and Experimental Therapeutics.Dec.,1999.Cairo,Egypt.

-Protective role of zinc against ovariectomy –induced changes in the liver of rats.

9-47th Scientific International Meeting of the Egyptian Society of Clinical Chemistry Feb.2001.,Cairo,Egypt.

10-Al-Azhar 2ndInternational Conference for Pharmaceutical and Biological Sciences , Dec. 2001.,Cairo,Egypt.

-Effect of exposure to mobile rely station on the redox status of liver, heart and spleen of albino rats.

11-Al-Azhar 3rd International Conference for Pharmaceutical and biological Sciences.Dec.2003.,Cairo,Egypt.

-Chemoprotective effect of probucol against diethylnitrosamine-induced hepatotoxicity.

Scientific

skills

- **Participation** in the preparation of the pharmacological research laboratory ,Faculty of Pharmacy ,Al-Azhar University.
- **Participation** in foundation of tissue culture laboratory, Faculty of Pharmacy ,Al-Azhar University.
- **As an organizer** for some scientific meetings.
- **Membership in:**
 - The Egyptian Society of Clinical Chemistry.
 - Egyptian Society of Pharmacology and Experimental Therapeutics.
 - The Egyptian Society of Toxicology.

Special Skills

Computer Skills

- Efficiency in using Windows office soft wear.
- Efficiency in using Internet.

Languages

- Native speaker of Arabic.
- Fluent in English.

Books

Under graduate handbooks in:

- Autonomic Pharmacology.
- Pharmacology of cardiovascular system.
- Principles in clinical Pharmacology.

- General Toxicology.
- Genetic Toxicology.
- Screening and Bioassay of drugs.

