

Curriculum Vitae

Personal Details:

Name : *Heba Mohamed kamal Abdel Hakim*

Nationality : Egyptian

Date of birth : December 13th 1976

Place of birth : Kiser El Nile - Cairo- Egypt

Marital Status : Married

Address : .4a Ahmed Saeed street second floor ,flat 4

Languages : Arabic – English

Computer Skills : word, power point ,Excel and internet

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University Education

Faculty of Science- chemistry/Zoology division – Cairo University, 1994-1999.

B.Sc. (Chemistry / Zoology), Very Good, May 1999, Faculty of Science, Cairo University.

Postgraduate Qualifications

- M.Sc. (Biochemistry), 2006, Faculty of Science, Cairo University.
Title of M.Sc. thesis: " **Biochemical studies of some enzyme markers and metabolites in hepatic and renal dysfunction .**"
- Ph.D. (Biochemistry), 2012, Faculty of Science , University of Cairo.
Title of Ph.D. thesis: " **Biochemical studies of some enzymes and tumour markers in cancer Diseases .** "

Objective

Seeking a challenging position in a research and teaching where my academic background and interpersonal skills are well developed and utilized.

Present Occupation

Lecturer of Biochemistry, Chemistry Department, Biochemistry Division, Faculty of Science, University of Cairo in the following areas: Metabolism, body fluids, , Immunology, , chemistry of macromolecules..... etc.

Experience

- Some important techniques like ELISA ,RIA Tissue culture, antibacterial activity measurements RTpqr and different molecular techniques .
- Use of technology of teaching.
- The credit hour systems.
- Quality standards in teaching
- Effective teaching skills.
- Research ethics.
- University legal and financial aspects.
- Communication skills
- Effective presentation skills .

بيان عن مجمل الأنشطة العلمية والعملية والتطبيقية

–القيام بالمهام التدريسية (العملية والنظرية) بالقسم:

Teaching courses:

Item No.	Course title	Student grade
1 practical	Practical enzymology Practical biochemistry Practical clinical biochemistry Practical molecular biology Chemistry of macromolecules Practical organic chemistry Practical organic chemistry	3 rd Year students [Bio 355] 3 rd Year students [Bio 352] 4 th Year students [Bio 491] 4 th Year students [Bio 492] 2 nd Year students [BTC 227] 2 nd year students [Chem 244, 241] Pre-Veterinary students
2	General metabolism [Bio 359]	3 rd Year biophysics students.
3	Metabolism of carbohydrates and	3 rd Year chemistry /biochemistry

	lipids [Bio 351]	students.
4	Metabolism of vitamins and minerals [Bio 354]	3 rd Year chemistry /biochemistry students.
5	Body fluids and biological activity [Bio 356]	3 rd Year chemistry /biochemistry students.
6	Immunology [Bio358]	3 rd Year chemistry /biochemistry students.
7	Chemistry of proteins ,enzymes and nucleic acid [BTC 227]	3 rd Year biotechnology students.
8	Metabolism [BTC324]	3 rd Year biotechnology students. 4 th Year biophysics students.
9	Inborn errors of metabolism [Bio 456]	4 th year chemistry /biochemistry students .
10	Enzymology 2 [Bio 454]	
11	Biochemical analysis (CA525)	Analytical Diploma students
12	Inborn errors of metabolism (CB 561)	Biochemistry Diploma students
13	Diagnostic enzymes and proteomics(CB 763)	Pre-doctor students (Biochemistry)
14	Biomedical Evolution (CB 767)	Pre-doctor students (Biochemistry)

المشاركة في أنشطة القسم:

- المشاركة في اعمال الامتحانات والتصحيح والكنتروليات (العملية والنظرية) بالكلية الفرقة الاولى والثانية .
- المشاركة في السيمينارات المقامة للكيمياء الحيوية والبيوتكنولوجيا
- المشاركة في الاشراف على البحث والمقال لطلبة الفرقة الرابعة (كيمياء منفرد).
- المشاركة في تحكيم البحث والمقال لطلبة الفرقة الرابعة (كيمياء منفرد)
- المشاركة في لجان جرد المعامل.
- المشاركة في اعمال الجودة بالقسم .
- شارك في لجان التحكيم والاشراف الخاصة بمشاريع التخرج ببرنامج التقنية الحيوية.

الدورات التدريبية التي تم حضورها واجتيازها ضمن مشروع تنمية قدرات اعضاء هيئة التدريس والقيادات

بجامعة القاهرة:

تم حضور 17 دورة:

مسلسل	الدورة	الفترة الزمنية
1	التدريس الفعال	2007-4-22 الى 2007-4-26
2	مهارات التفكير	2007-4-25 الى 2007-4-27
3	أساليب البحث العلمي	2007-3-26 الى 2007-3-29
4	اخلاقيات واداب المهنة	2007-7-9 الى 2007-7-11
5	نظم الساعات المعتمدة	2012-6-26 الى 2012-6-28
6	معايير الجودة في العملية التدريسية	2012-6-19 الى 2012-6-21
7	الجوانب القانونية والمالية في الاعمال الجامعية	2012-5-14 الى 2012-5-16
8	مهارات الاتصال في أنماط التعليم المختلفة	2012-1-30 الى 2012-2-1
9	مهارات العرض الفعال	2012-1-9 الى 2012-1-11
10	استخدام التكنولوجيا في التدريس	2011-12-19 الى 2011-12-21
11	اخلاقيات البحث العلمي	2019-8-3 الى 2019-8-4
12	إدارة التغيير	2019-8-7 الى 2019-8-8
13	تحرير النص العلمي باللغة العربية واللغة الإنجليزية	2019-8-21 الى 2019-8-22
14	الاعتبارات الأخلاقية لاستخدام الحيوانات في البحث العلمي	2019-7-15 الى 2019-7-16
15	نظم الامتحانات وتقويم الطلاب	2019-9-14 الى 2019-9-15
16	النشر الدولي للبحوث العلمية	2019-9-4 الى 2019-9-5
17	التفكير الناقد	2020-1-8 الى 2020-1-9

–الإشراف على الرسائل العلمية:

الإشراف على عدد ثمانية وعشرون رسالة ماجستير وتم منح 13 منها الدرجة العلمية وعدد ستة عشر رسالة دكتوراة تم منح الدرجة العلمية 4 الدرجة العلمية .

–النشر العلمى:

تم نشر عدد 18 بحثا علميا فى مجال الكيمياء الحيوية وتخصصات بيئية أيضا مواكبة مع خطة جامعة القاهرة البحثية فى الفترة من 2015 وحتى الان وعدد اربع أبحاث منشورة فى دوريات محلية

• المشروعات البحثية

- لقد قمت بالإشراف على بعض المشروعات البحثية من كلية العلوم- جامعة القاهرة (مشاريع تخرج للفرقة الرابعة كيمياء منفرد –وتقنية حيوية (بيانها كالتالى).

• Graduation project for biotechnology students (2016-2017)

Title:Anti-carcinogenic ,anti obesity and anti fatty liver effects of some herbal compounds

• Graduation project for biotechnology students (2018-2019)

Title: Studying the effect of green synthesized nanoparticles on the expression of antibiotic resistance genes in Escherichia coli stains .

• Graduation projects for biotechnology students (2019-2020)

Title:Studying the effect of some natural products on expression of antibiotic resistance genes in staphylococcus aureus strains .

الإشراف على مشروع ابتكاري للطلاب بدعم من وزارة التعليم العالي بعنوان

**Novel PEGylated metal complex conjugated with anti-HER2 antibody: •
An approach to improve breast cancer targeted therapy**

حضور ورش عمل:

1-Food safety and sustainable development 27 July 2016

**2-Mycotoxicological risks in Mediterranean countries :Economic impact ,prevention,
Management and control
October 25-27, 2010**

**3-Symposium of climate changes and it's effects on food safety
19-May 2015**

**4-The first joints Egyptian- Italian workshop on innovative scientific research
National research Centre February 4-5,2019**

**5-The first scientific forum of flavor and aroma department and fats and oils department in
cooperation with the Egyptian society of food industries and nutrition
Entitled
Modern technologies of plant oils (Aromatic and fixed) and their applications in food and health
.10 February 2019**

6-Masterclass (Nature) in scientific writing and publishing 2017

List of publications

1. A novel simple biosensor containing silver nanoparticles/propolis (bee glue) for microRNA let-7a determination. *Materials Science and Engineering C* (2018) **Heba K.A. Elhakim**, Shereen M. Azab, Amany M. Fekry 92, pp.489-49
2. Extracellular biosynthesis of cobalt ferrite nanoparticles by *Monascus purpureus* and their antioxidant, anticancer and antimicrobial activities:Yield enhancement by gamma irradiation. *Materials science and engineering C* (20 20)El-Sayed R. El-Sayed, **Heba K. Abdelhakim**, Zainab Zakaria, (107)110318
3. A novel inhibitor, 2-cyano-3-(1-phenyl-3-(thiophen-2-yl)-pyrazol-4-yl)acrylamide linked to sulphamethoxazole, blocks anti-apoptotic proteins via molecular docking and strongly induced apoptosis of HCT116 cell line by different molecular tools.(2020) *Arabian Journal of Chemistry* .Magda F. Mohamed, **Heba K.A. Elhakim**, Amna A. Saddiq, Ismail A. Abdelhamid. 13(7), 5978–5995.
4. Propolis relieves the cardiotoxicity of chlorpyrifos in diabetic rats via alleviations of paraoxonase-1 and xanthine oxidase genes expression. *Pesticide Biochemistry and Physiology* (2019) Khairy A. Ibrahima, Soad A. Khwanes, Mohamed A. El-Desouky, **Heba K.A. Elhakim**, (159)127-135
- 5.The protecting role of Moringa oleifera in cypermethrin-induced mitochondrial dysfunction and apoptotic events in rats brain. (2020) *Journal of King Saud University – Science* Reham E. Muhammed, Mohamed A. El-Desouky, Samia B. Abo-Seda, A.A. Nahas, **Heba K.A. Elhakim**, Maha I. Alkhalaf 32(6) 2717-2722
6. Corrosion resistance of Ti modified by chitosan–gold nanoparticles for orthopedic implantation. *International Journal of Biological Macromolecules* (2015) Farghali, R., Fekry, A., Ahmed, R. and **Heba K.A. Elhakim** 79, pp.787-799.
7. A novel source of the cardiac glycoside digoxin from the endophytic fungus *Epicoccum nigrum* : isolation, characterization, production enhancement by gamma irradiation mutagenesis and anticancer activity evaluation. *Journal of Applied Microbiology*.(2019) El-Sayed, E., Ahmed, A. and **Heba K.A. Elhakim** 128(3), pp.747-762.
8. Biosynthesis of zinc oxide nanoparticles with antimicrobial, anticancer, antioxidant and photocatalytic activities by the endophytic *Alternaria tenuissima*. *Journal of Applied Microbiology*. (2020) **Heba K.A. Elhakim** , El-Sayed, E. and Rashidi, F.128(6), pp.1634-1646.
9. Solid-state fermentation for enhanced production of selenium nanoparticles by gamma-irradiated *Monascus purpureus* and their biological evaluation and photocatalytic activities. *Bioprocess and Biosystems Engineering* (2020) El-Sayed, E., **Heba K.A. Elhakim** and Ahmed, A. 43(5), pp.797-809.
10. Single or combined exposure to chlorpyrifos and cypermethrin provoke oxidative stress and downregulation in monoamine oxidase and acetylcholinesterase gene expression of the rat's brain. *Environmental Science and Pollution Research*.(2020) .Abd El-Moneim Ibrahim, K., Mohamed Abdelrahman, S., **Heba K.A. Elhakim**. and Ali Ragab, E., 27(11), pp.12692-12703.
11. Evaluation of solubility and cytotoxicity of lanthanum-doped phosphate glasses nanoparticles for drug delivery applications. *Journal of Non-Crystalline Solids*.(2017) El-Meliegy, E., Farag, M., El-Kady, A., Mohamed, M., **Heba K.A. Elhakim**. and Moaness, M., 2017475, pp.59-70..

12. The strategy of nanoparticles and the flavone chrysin to quantify miRNA-let 7a in zepto-molar level: its application as tumor marker. Journal of molecular structure (2019) Shereen M. Azab, **Heba K.A. Elhakim**, Amany M. Fekry doi: 10.1016/j.molstruc.2019.06.111.
13. Study of DNA methyl transferase 3A mutation in acute myeloid leukemic patients. Egyptian Journal of Medical Human Genetics. (2018). Elsayed, G., Fahmi, A., Shafik, N., Elshimy, R., **Heba K.A. Elhakim** and Attea, S. 19(4), pp.315-319.
14. Evaluation of Anticancer Activities of Gallic Acid and Tartaric Acid Vectorized on Iron Oxide Nanoparticles. Drug Delivery Letters (2020). Saleh, L., Ragab, E., **Heba K.A. Elhakim**, Mohamed, S. and Zakaria, Z., 10(2), pp.123-132.
15. Assessment of Thyroid Function and Oxidative Stress State in Foundry Workers Exposed to Lead. Journal of Health and Pollution (2020) Fahim, Y., Sharaf, N., Hasani, I., Ragab, E. and **Heba K.A. Elhakim**, 10(27), p.200903..
16. Hypolipidemic and anti-fatty liver effects exerted by standardized *PUNICA GRANATUM L.* peel extract in HEPG2 cell line and high-fat diet-induced mice. International Journal of Pharmacy and Pharmaceutical Sciences, (2016). Omar A. Taha, Alaa Barakat, **Heba K. Abdelhakim**, Mohamed Abbas Shemis, Zainab Zakaria. 8(6)156-161 ,
17. Vitamin D status and various predictors in Egyptian adolescent females. Plant archives (2020). Azza E. Zidan, Mohamed A. El-Desouky, Azza O. Lotfy, **Heba K.A. Elhakim** and Eman A. Sultan, 20 (2) pp. 2117-2121.
18. Integrated effect of plant growth regulators with boron sources on some biological parameters of sugar beet. plant archives (2020) Marwa A. Qotob, Mostafa A. Nasef, **Heba K. A. Elhakim**, Olfat G. Shaker, Nader R. Habashy and Ismail A. Abdelhamid. 20(1) pp 1783-1793
19. EVALUATION OF KALLISTATIN AS A BIOMARKER IN CHRONIC HEPATITIS C PATIENTS. WORLD JOURNAL OF PHARMACY AND PHARMACEUTICAL SCIENCES. (2017) Halla M. Ragab, Fawzy A. Attaby, Nabila Abd El Maksoud, Wael Mohamed Aref, Mona A. Amin, **Heba K. Abdelhakim** and Wafaa Abd Elaziz. 6(9), pp 150-174
20. Association of Alpha B-Crystalline (CRYAB) Genotypes with Breast Cancer. Academic Journal of Cancer Research. (2015) Ayam R. Al-Shaheen, Abdou O. Abdelhamid, Abdalla Awidi and **Heba M. Kamal** 8(3): 53-57
21. *IL-21R polymorphism and virological response to Peg-IFN treatment in chronic hepatitis C Egyptian patients.* INTERNATIONAL JOURNAL OF CURRENT RESEARCH IN CHEMISTRY AND PHARMACEUTICAL SCIENCES. (2016) Amal Ahmed Mohamed, Magda Ahmed Abd-Allah, **Heba M. Kamal**, Lamiaa Ahmed Fouad, Aza M. Fared, Mohamed Said Abdul Aziz and Nagwa M. Abdel Wahab, 3(4)
- 22- *Revisiting of chemical fertilizers by using suitable plant growth regulators and nano fertilizer.* global scientific journal. (2020) Marwa A. Qotob, Mostafa A. Nasef, **Heba K. A. Elhakim**, Olfat G. Shaker, Ismail Abdelhamid. 8(11) pp 1896, 1907

قائمة بتحكيم الابحاث العلمية فى المجالات العلمية العالمية المتخصصة:

تم تحكيم الابحاث الاتية:

- 1-The Effect of Work Environment on the Biochemical Profile of Workers Operating at the Ust-Kamenogorsk Titanium and Magnesium Plant. Toxicology and industrial health (impact factor: 1.635)
- 2-Effects of Nrf2-Keap1 signaling pathway on antioxidant defense system and oxidative damage in the clams Ruditapes philippinarum exposure to PAHs .Comparative biochemistry and physiology Part C (Impact factor :2.967)
- 3-The The Relationship between High Consumption of Fresh Whole Milk or Yogurt and The Risk for Both Cardiovascular Diseases and Liver Disorders in Hyperlipidemic Wistar Rats ," Journal of microbiology, biotechnology and food sciences (impact factor : 0.3)
- 4- Smo-Shh signaling activator purmorphamine ameliorates neurobehavioral, molecular, and morphological alterations in an intracerebroventricular propionic acid-induced experimental model of autism. Human and experimental toxicology (Impact factor : 2.067)

عميد الكلية
ا.د. احمد عبده الشريف