**Mohamed-Wasim Khalil, PhD**

Prof. Ass. Dr. of Cell biology and Genetic

Zoology dep. Faculty of Science Fayoum University

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**Education**

* Ph.D. in Biological science: The technical university of Braunschweig and Labs of GBF-NATIONAL CENTRE FOR BIOTECHNOLOGY- Germany, 1999.
* German-Diplom (MASTER) in Biological science: University of Oldenburg -Germany in the microbiology, Genetic and Biochemistry, Germany 1996.
* B.Sc in biological science (zoology): Cairo University, Egypt. 1988.

**Employment history**

* Assistant prof. of Genetic and molecular cell biology (2001-present): Elfayoum university, Egypt
* Assistant prof. (2008-2013): Albaha university- Kingdom of Saudi Arabian
* Assistant prof. (2003-2007): Um-alqura (Mekkah) university - Kingdom of Saudi Arabian
* Postdoc (1999): GBF - NATIONAL CENTRE FOR BIOTECHNOLOGY- Germany (Gesellschaft für Biotechnologische Forschung)
* Scientific research assistant (1996-1999): in GBF - NATIONAL CENTRE FOR BIOTECHNOLOGY- Germany

**Technical skills**

**Cell and molecular biology**

1. Cell culture techniques, Cytotoxicity, Immunofluorescence microscopy, Maintaining different cell lines, Electron microscopy, and other methods of cell biology.
2. Immunocytochemistry, investigation of the cell cycle
3. Molecular biology techniques, Methods of Gene toxicity and DNA Damage, Comet assay, Nucleic acids and protein Blotting Techniques. Apoptosis, Cytoskeleton studies.
4. Working on electron microscopy in the electron microscop unit in the GBF.
5. Working in the field of protein biochemistry, purification of cytoskeleton proteins and protein chracterisation.
6. comparative studis on the anti cancer and anti mitotic agents (anti microtubules and anti actin) as taxoids, vincaalkaloids, colchicine and Phomopsin with new isolated natural products from myxobacteria.as *epothilons chivosazol* and *tubulysins*.
7. Practical training on structure analysis of protein solutions by small angle X-ray scattering (SAX) in Max-Planck Unit for structural Molecular Biology, Hamburg- Germany.

**Microbiology**

1. Isolation of and classification of myxobacteria
2. Bacterial genetic and gene Transfer
3. Viral molecular genetic

**Biochemistry**

1. Cytoskeletal protein biochemistry, Purification, in vitro reactions
2. Investigations on mechanisms of action of drugs on animal cells
3. Biochemistry of DNA breaks and repair

**Other experiences**

* Established the molecular biology lab, Elfayoum university, Egypt
* Helped in establishing biology, microbiology, chemistry, physics, computers, and electronics labs, Elfayoum university, Egypt
* Created an effective syllabus for biological sciences, cellular biology, clinical analysis, genetics and biotechnology courses, Elfayoum university, Egypt
* Completes a course of e-learning, Elfayoum university, Egypt

**Teaching experiences**

1. ***Undergraduate***
2. Genetic for 3rd, year zoology students - faculty of science cairo university-fayoum branch.
3. Cell biology course 1st. year biology/chemistry students - faculty of science cairo university-fayoum branch.
4. Molecular biology and genetic for 2nd. year biology/chemistry students - faculty of science El-Fayoum university
5. Molecular biology/genetic for 3rd.year biology students - faculty of Education El-Fayoum university
6. Biotechnology for 3rd. year biology students - faculty of Science El-Fayoum university
7. Biotechnology for 4th. year biology students - faculty of Education El-Fayoum university
8. Cell culture technique course for biology students- community college Umelqura university-Mekka-Saudi Arabian
9. The pre-med module course for medicine students- faculty of medicine Albaha university- Saudi Arabian.
10. Biochemistry course for medical science students- faculty of medical science Albaha university- Saudi Arabian.
11. Biotechnology course for biology students- faculty of Science Albaha university- Saudi Arabian.
12. ***Sub graduate***
13. Advanced cell biology for preliminary Master students - faculty of science El-Fayoum university
14. Molecular biology for preliminary Master students - faculty of science El-Fayoum university
15. Genetic engineering for preliminary Master Zoology students - faculty of science El-Fayoum university
16. Genetic engineering for preliminary Master (Biochemistry students - faculty of science El-Fayoum university
17. DNA –Recombination technology preliminary PhD Biochemiastry students- faculty of science El-Fayoum university
18. **Proteins Dynamics** preliminary PhD Zoology students- faculty of science El-Fayoum university

**Conferences and presentations**

* Statistical analysis and design of biological experiments in scientific research meeting, in Atomic Energy Authority (A.E.A), Cairo, Egypt (January 2014)
* TOT, Taif- Kingdom of Saudi Arabia (January 2013)
* The Ninth Scientific Conference of the Society of Animal Science in the Faculty of Science, Cairo University - Fayoum Branch (March 2002)
* The Eighth International Conference of Arab biologists. Activity of the Union of Arab Biologists in faculty of Science Cairo University -Fayoum Branch (November 2001)
* Poster presentation at the third European Conference “Biophysics of cytoskeleton” organized by European science foundation (ESF) and the Euroconferences Activity of the European Union in Obernai, France (April 1998)
* Attended in a seminar and practical working „Gentechnological Methods [subcellular lokalization, PCR, cloning technique and sequencing in the Department of Molecular Biology, GPF-Braunschweig-Germany (March 1993)

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| 1. A survey of cytostatic compounds from myxobacteria acting on the cytoskeleton. GBF - NATIONAL CENTRE FOR BIOTECHNOLOGY- Germany (Gesellschaft für Biotechnologische Forschung) (1996-1999)
2. A survey of active compounds from egyptian flora acting on animal and human cells. National Research center Cairo 2001-2003
3. A survey nd classification of Agricultural and medical insects in Al-Baha province- Saudi Arabia (Apr 2011-May 2013)
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| Positions |
| Head department of pharmacology department in community college- albaha 2005 2008 Head department of medical science department in community college- albaha 2010-2013 |

**Publications**

1. F. Sasse, **Mohamed W. Khalil**, T.M. Gronewold and H. Reichenbach: A survey of cytostatic compounds from myxobacteria acting on the cytoskeleton; J.Canc.Res. Clinic. Oncol., (125) 91, (1999.
2. Osama M. M. Sarhan and **Mohamed W. Khalil** (2002) Sperm head differentiation in the scincid Lizard Eumeces schneideri : Electron microscopic study, Egypt. J. Zool., 38: 229-245
3. **Mohamed W. Khalil**, Florenz Sasse, Heinrich Luensdorf, Yasser A. Elnakady, and Hans Reichenbach (2006).ionicat Mechanism of Action of Tubulysin, an Antimitotic Peptide from Myxobacteria. ChemBioChem, 7: 678-683.
4. **Mohamed W. Khalil**and Florenz Sasse 2007. Molecular interaction of tubulysins and some other cytotoxic agents with tubulin. Egypt. J. Zool., 49: 149-165.
5. **Mohamed W. Khalil**(2008). Genetic and physiologic variability among the Egyptian populations of Acanthodactylus boskianus (Lacertidae: Reptilia) , Egypt. J. Zool., 49: 149-165.
6. **Mohamed W. Khalil** (2009). Genetic and physiologic variability among the Egyptian populations of Stenodactylus sthenodactylus (Gekkonidae: Reptilia). Egypt. J. Exp. Biol. (Zool.), 5: 51– 56
7. **Mohamed W. Khalil**and Nadia Raghib Ali Abo-zeid (2009). Molecular mechanism of chromium (VI) Induced Cytotoxicity and Apoptosis in L929 Mouse Fibroblasts. Egypt. Acad. J. biolog. Sci., 2 (1): 177-188.
8. Nadia Raghib Abo-zeid and **Mohamed W. Khalil** (2009). Histological and Ultrastructural Studies on the Kidney of Albino Rat under the effect of Tiaprofenic Acid and the possibility of Recovery after the Drug Withdrawal. Egypt. Acad. J. biolog. Sci., 2 (1): 189- 206.
9. Randi Diestel, Herbert Irschik, Rolf Jansen, **Mohammed W. Khalil** ,Hans Reichenbach, and Florenz Sasse: Chivosazoles A and F, Cytostatic Macrolides from Myxobacteri a, Interfere with Actin; ChemBioChem 2009, 10, 2900–2903.
10. Magdi S. El Hawgry, **Mohamed W. Khalil** , Mostafa R. Sharaf, Hassan H. Fadl, Abddulrahman S Aldawood (2013). A preliminary Study in the insect fauna of Al-Baha Pro, vince, Saudi Arabia, with descriptions on two new species. Zookeys 274: 1-88
11. **Mohamed W. Khalil** and Amany M. Shabaan (2018): Antimicrobial, cytotoxic and genotoxic assessment of p-Cresol on different organism systems: *Scientific Research & Studies Center-Faculty of Science- Zagazig University- Egypt Biochemistry Letters*, **13** (21), 259-269.
12. Khalid H. Zaghloul\*, Heba A. Mohamed\*and **Mohamed W. Khalil**\* (2019) Hematological changes induced by heavy metals bioaccumulation in Clarias gariepinus fish at Fayoum Governorate, Egypt, *Biochemistry* *letters*, 14(1), Pages: 1-15
13. **Mohamed, W. Khalil**, Aymn, M. Abdel-Aziz , Mostafa, A. Ezzat1, Noha, K. Abdel-Ghafar1and Esraa, A. Mahmoud, (2019): Elevated Cellular-microparticles Expressing Platelets and Endothelial Markers in Cardio-vascular Ischemic Infarction (A Possible New Challenge for Early Diagnosis), *Egypt*. *Acad. J.* *Biolog*. *Sci.* 11(1)pp63-72