

Curriculum Vitae

Dr. Gamal Abdel-Hafez Mahmoud Bekhet
Assistant Professor (Experimental Embryology)



Current Address:

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Permanent address:

Alexandria University - Faculty of Science - Zoology Department - Alexandria - Egypt

PERSONAL DATA

Name:	Gamal Abdel-Hafez Mahmoud Bekhet
Date and place of birth:	30-9-1964, Alexandria, Egypt
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ACADEMIC DEGREES

- **Ph.D.:** Feb. 2000, Alexandria University, Egypt.
- **M.Sc.:** Jan. 1994, Alexandria University, Egypt.
- **B.Sc. (Very good with honor):** May 1986, Alexandria University, Egypt.

EMPLOYMENT HISTORY

- **Demonstrator** (31/10/1986) - Alexandria University - Faculty of Science - Zoology Department (Egypt)
- **Assistant Lecturer** (3/4/1994) - Alexandria University - Faculty of Science - Zoology Department (Egypt)
- **Lecturer** (27/4/2000 till now) - Alexandria University - Faculty of Science - Zoology Department (Egypt)
- (Saudi Arabia) (from the academic year 2009/2010 till now)

M.SC. & PH.D. THESIS TITLES

- **M.Sc. thesis (1994):** Effect of vitamin (A) Palmitate on the regenerative capacity of the hind limb of tadpole larval stages of the Egyptian toad *Bufo regularis* Reuss after transaction at the mid shank level.
- **Ph.D. thesis (2004):** Responses of Amputated Tail Stumps to Vitamin (A) in Egyptian toads and frogs.

TEACHING EXPERIENCE

In Alexandria University - Faculty of Science (Egypt):

- Systematic Zoology (Invertebrates) for prepharmacy students.
- Physiology and Parasitology for prepharmacy students.
- General Zoology for 1st year students.
- Chordates and Genetics for 2nd year students.
- Embryology for 3rd year students.
- Comparative vertebrate anatomy for 4th year students.
- Zoological technique. for 4th year students.
- Advanced embryology for master students.
- Teratology and regeneration for master students.
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In King Faisal University (Saudi Arabia):

- General Zoology for 1st level (College of Science, College of Education and collage of Agricultures).
- Comparative Vertebrates Anatomy for 8th level (College of Science).
- Chordates for 5th level (College of Science) .
- Principles of Embryology for 8th level (College of Science).
- Invertebrates for 8th level (College of Education).
- Research Project for graduate students (College of Science).
- Histology 5th level (College of Science)

PROFESSIONAL MEMBERSHIP

- The Egyptian German Society of Zoology, Faculty of Science, Cairo University, Egypt.
- Union of Arab Biologists, Faculty of Science, Cairo University, Egypt.
- Egyptian Society of Experimental Biology, Faculty of Science, Tanta University, Egypt.
- Saudi Society of Biological Sciences, Riyadh, Saudi Arabia.
- Bulletin of the faculty of Science Alexandria University .

RESEARCH TRENDS

Major emphasis has been placed on the effects of Vitamins and heavy metals hazards on Morphological and Histological changes during the developmental stages of vertebrates embryos. , in addition to the Malformations ,Homeotic AND Analysis of Mutants .

Research areas include:

Histology.
Developmental Biology.
Embryology.
Teratology.

SCIENTIFIC PROJECTS

- **2010/2011:** Effect of Methylmercury on Cardiotoxicity in chick embryos and the protective role of vitamin C and folic acid (Funded by **Deanship of Scientific Research** - King Faisal University NO.110035).
- **2012/2013 :** Utilizing the Premetamorphic Oral Cavity Scanning Electron Micrographs for the Taxonomy of Saudi Arabian Amphibians *Bufo dhufarensis* and *Rana ridibunda pallas*(Funded by Deanship of Scientific Research - King Faisal University NO.130260).
- **.2012/2013 :**Scanning Electron Microscope studies of embryonic and larval developmental stages of mosquito species in Al-Hassa region and their use as a taxonomic features (Funded by Deanship of Scientific Research - King Faisal University NO.130167).
- **2012/2013 :** Toxic effect of algae and some heavy metals on the morphological and histopathological characteristic on Bolti(Funded by Deanship of Scientific Research - King Faisal University NO.310271).
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SUPERVISIONS OF M.SC. & PH.D. THESIS (Alexandria University - Faculty of Science - Zoology Department)

- **Ph.D. Thesis:**

Effect of disinfectants on the Embryonic stages , Characteristic of hatching, Productivity before and after hatching .

- **M.Sc. Thesis:**

1. Biological factors controlling developmental duration ,growth and metamorphosis of the larval green toad, *Bufo viridis viridis*.
2. Effect of immunosuppressor Cyclophosphamide on some physiological parameters and immune system of *Bufo regularis* Ruess.
3. Effect of Vitamin A on the development of central nervous system of embryos of mice .
4. Impact of nitric oxide on the regenerative ability of hind limb of *Bufo regularis* Ruess referring to myogenesis .

CONFERENCES & WORKSHOPS

1. **10 Oct. 2004:** The 8th scientific conference of the Egyptian society of fisheries development and protection of man's health, Faculty of Science, Sheben-El-Com, Menofya University, Egypt.
2. **20 Feb 2005:** The 11th scientific conference of the Zoological Society A.R. Egypt, Faculty of Science, Tanta University, Egypt.
3. **15-16 February 2006 :**Sharing quality of higher education across border :role of association and institutes Bibliothetica Alexandria Conference Center ,Alexandria ,Egypt
4. **26-29 April 2006:** BioVision (Alexandria 2006), Bibliotheca Alexandrina Conference Center, Alexandria, Egypt.
5. **22 June 2006:** The 2nd conference of the Egyptian Society of Experimental Biology, Faculty of Science, Alexandria University, Egypt.
6. **1-2 November 2006:** The 4th international conference on biological sciences, - Faculty of Science, Tanta University, Egypt.
7. **24 – 27 November 2008:** The 2nd International Conference on Aquatic Resources "Integrated Coastal Zone Management and Sustainable Development", National Institute of Oceanography and Fisheries, Alexandria, Egypt.
8. **11-13 May 2010:** 25th Meeting of Saudi Society of Biological sciences (Nanotechnology in Life Sciences). King Faisal University (Saudi Arabia).
9. **2 June 2010:** Strategy of scientific research at King Faisal University for the next decade. Deanship of Scientific Research - King Faisal University.
10. **29 Nov. 2010:** An introductory lecture by the Office of Quality Assurance and Accreditation, Faculty of Science and its contributions to the final requirements for institutional accreditation to the university and the definition at the National Evaluation and Accreditation. Faculty of science, King Faisal University.
11. **6 Dec. 2010:** Workshop on specification of courses and learning outcomes. Office of Quality Assurance and Accreditation, Faculty of Science, King Faisal University.
- 12- **9-11 april 2013:** 28th Meeting of Saudi Society of Biological sciences (eco-tourism and sustainable development). hail University (Saudi Arabia).

Training Activities

1. Foundations of Education and University Teacher Preparation, Faculty of Education (Alexandria University), **1993**.
2. Training course in electron microscope TEM, SEM and X-ray microanalysis system, Faculty of Science, Alexandria University (**5-9 march 2005**).
3. Credit hours, Faculty and Leadership Development Center (FLDC), Alexandria University (**18-19 February 2006**).
4. Teaching Evaluation, Faculty and Leadership Development Center (FLDC), Alexandria University (**18-20 March 2006**).
5. Effective crisis managements, Faculty and Leadership Development Center (FLDC), Alexandria University (**6-7 March 2006**).
6. Effective meeting managements, Faculty and Leadership Development Center (FLDC), Alexandria University (**3-4 March 2006**).
7. SPSS and Quantitative Research. Deanship of High Education Development (King Faisal University) (**27 February - 1 March 2010**).
8. Windows XP. Deanship of High Education Development (King Faisal University) (**6-8 March 2010**).
9. Measurement of Educational Objectives. Deanship of High Education Development (King Faisal University) (**1-2 May 2010**).
10. Strategies for Teaching University Students. Deanship of High Education Development (King Faisal University) (**23-24 October 2010**).
11. Skills of the successful researcher and Research Excellence Deanship of High Education Development (King Faisal University) (**7-12-December 2010**).

PUBLISHED ARTICLES

1. **Mahmoud G. A.** 2009. Histochemical contents of polysaccharides, proteins and nucleic acids during tail regeneration in the Geckonid lizard (*Cyrtodactylus scaber*). Egy. Soc. Zool.
2. **Mahmoud G. A.** and Abd El-Karim A. E. 2008. Mitotic activity in the optic tectum regeneration after its partial or complete excision in the larvae of the Egyptian toad, *Bufo regularis* Reuss. Egy. Ger. Soc. Zool.
3. Michael, M. I ; El-Mekkawy, D.A; Moussad, E.A; And **Mahmoud, G.A.** 2008 .Responses of amputated tail stumps to vitamin (A) treatment in Egyptian frog *Rana ridibunda* Pallas tadpoles . Proc.5th Int. Con. Biol. Sci.(Zool) 5: 213-220.
4. Michael, M. I ; El-Mekkawy, D.A; Moussad, E.A; And **Mahmoud, G.A.** 2008. Histological effects of vitamin A on the tail regeneration in the tadpoles of *Rana ridibunda* Pallas (Amphibian-Anura). Proc.5th Int. Con. Biol. Sci. (Zool) 5: 292-310.
5. Michael, M. I ; El-Mekkawy, D.A; Sayed Ahmed, A.A.; and **Mahmoud, G.A.** 1994.Vitamin A and limb regeneration in the Egyptian toad *Bufo regularis* Reuss. 1. Effect of moderate dose (30 IU/ml) of vitamin A Morphological Study. J. Union Arab Biologists 1A: 57-81.
6. Michael, M. I ; El-Mekkawy, D.A; Sayed Ahmed, A.A.; and **Mahmoud, G.A.**1994.Vitamin A and limb regeneration in the Egyptian toad *Bufo regularis* Reuss. 1. Effect of low dose (15 IU/ml) and high dose (75 IU/ml) of vitamin A. J Egy Ger Soc Zool 15(B): 211-230.
7. Radwan, E.H.; **Mahmoud, G.A.**; Saad, G.A.; Radwan, Khaled.H. (2009): Light and Electron Microscope studies on the effect of marine pollution on the histological characterization of the digestive gland of the pearl oyster *Pinctada radiata* (Leach 814). J. Egypt. Ger. Soc. Zool. 55 (C):Histology &Histochemistry, a. 25-47.
8. Saad, G. A. ; **Mahmoud, G.A.**, El-Maziody.H. R Radwan, E. H. and Radwan, Kh.H.² (2009): Impact of the-drug hyperdosing and its subsequent physiological side effects in male Swiss Albino mice J. Egypt. Ger. Soc. Zool. 58 (A):Comparative Physiology, 113-129.
9. Saad, G. A. ; **Mahmoud, G. A.**; El-Maziody. R. H., Radwan, E. H.¹ and Radwan, Khaled. H.² (2009): Subsequent histopathological side effects of Sildenafil Hyperdosing on male Swiss Albino mice. J. Egypt. Ger. Soc. Zool.58 (C):Histology &Histochemistry, 1-23
10. Saad, G. A., **Mahmoud, G. A.** ; Hofmann, D.K. ; Radwan, Khaled. H. and Radwan,

E. H. (2010): Molecular investigations on the Ecotoxicity of three species of ascidians collected from the eastern and western harbors of the Mediterranean Sea with a reference region Al-Asafra coastal waters. Alexandria, Egypt. J. Env. Res. and Pub. Health .

11. Saad, G.A. , Radwan, Khaled. H.; **Mahmoud, G. A.**; Radwan, E.H. (2008): Molecular characterization of *Ciona intestinalis* proteins using Polyacrylamide Gel Electrophoresis J. Egypt. Ger. Soc. Zool.57(C):Histology &Histochemistry,297- 320
12. **Bekhet,G.A.** (2012) : Application of premetamorphic oral papillae electron micrographs for Egyptian *toads'* taxonomy.(under preparation). J.Cell Anim.Biol.6(1):10-14 .
13. Michael, M. I ; El-Mekkawy, D.A; Moussad, E.A; And **Mahmoud, G.A(1996):** Vitamin A and limb regeneration in the Egyptian toad Bufo regularis Reuss – histological studies Qatar Univ.Sci.J.15(1) 121-130
14. **Bekhet ,G.A,** Al-Kahtani M.A, , Abdel-Moneim A.M.(2013):Protective effects of vitamin C and folic acid on methylmercury induced developmental malformations in the chick embryo .J cell and animal biology 7 (77-84).
15. Zeweil1, H.S ; Rizk R.E. , **Bekhet ,G.A** and. Ahmed M R.(2013): effect of egg disinfection on hatching performance for developed chicken strain Egypt. Poult. Sci. Vol (33) (II): (289-307)
16. Fahmy G.H and **Bekhet ,G.A.**(2014) : ultrastructural study of the lateral line neuromasts in tadpoles of saudi bufo dhufarensis and rana ridibunda J. Egypt. Soc. Parasitol. (JESP), 44(1), 2014: 33 – 39
- 17- Zwait H.S.; Zaki R.A., **Bekhet, G.A.**; Ahmed M.R., (2014)Biological factors controlling developmental duration ,growth and metamorphosis of the larval green toad, Bufo viridis viridis. under review.Journal of Basic and Applied Zoology
- 18- **Bekhet G.A.**; Abdou H.A. Dekinesh S.S.; Hussein A. H.; Sebiae S.S.(2014) Comparing of the effectiveness of egg disinfectants against bacteria and mitotic indices of developing chick embryos .under review.Journal of Basic and Applied Zoology
- 19- **Bekhet,G.A.**(2014) :comparison of oral disc morphology of saudi bufo dhufrenesis and rana ridibundausing scanning electron microscope . under review journal of cell and animal biology

CONTRIBUTION IN DEPARTEMENTAL/FACULTY ACTIVITIES & COMMITEES

In Alexandria University (Faculty of Science - Zoology Department)

- Participation in the committees setting up tables in faculty and department.
- Participation in committees to examine and receive the scientific equipments of the faculty.
- Participation in the supervision of summer training for 3rd year students (different

branches) in the department.

- Participation in the academic advising for students of 1st year (Biology Group) (credit hours system).

In King Faisal University (College of Science - Department of Biological Sciences)

- Member in the teaching and programming Evaluation .
- Member in Laboratories safety.

LANGUAGE AND COMPUTER SKILLS

- Excellent in Arabic and English, reading, writing, and speaking.
- Windows XP, Vista, Home 7
- Microsoft office (Word, Excel, PowerPoint)
- Statistical programs (e.g., SPSS)
- Adobe Photoshop
- Internet Explorer