

CURRICULUM VITAE
Gehan Hassan Fahmy, Ph.D.
Eisenhower Fellow, U.S.A.

Nov., 2010

Address: Home: POBox 7048
Al Hasa 31982, KSA
Cel (Saudi): +966-564-761-703 / +966-500-056-496
Cel (Egypt): +2019-339-1306
E-mail: gehanfahmy2003@yahoo.ca

Work: King Faisal University, Al Hasa, KSA
Ph: +966-03-580-0000 ext. 2148
Fax: +966-03-580-0000 ext 1733

Current Position:

Assistant Professor of Zoology, Faculty of Science, King Faisal University, Al Hasa, KSA.

Field of Specialization:

Embryology and Comparative Anatomy.

Personal Data:

Gender: Female.

D.O.B.: 21/2/1965

Marital Status: Widow and mother of two children.

Nationality: Egyptian and Greek (both passports are valid).

Name of Spouse: Late Ashraf Abdellatif Kamoun.

Nationality of Spouse: Egyptian.

Place and Position of Spouse: Head of Engineering Dept. at Alexandria Sporting Club. Alexandria, Egypt.

Languages:

Arabic: National language

English: Fluent spoken and written.

French: Fair command.

Greek: Mother tongue.

Computer Skills:

- 1996 **Word processing**, University of Minnesota, Minnesota, U.S.A.
1996 **Excel**, University of Minnesota, Minnesota, U.S.A.
1997 **Powerpoint**, University of Minnesota, Minnesota, U.S.A.
1997 **Cricket**, making numerous kinds of curves and histograms. University
 of Minnesota, Minnesota, U.S.A.
1997 **StatView**, statistical purposes. University of Minnesota, Minnesota, U.S.A.
1996 **Internet uses**, University of Minnesota, Minnesota, U.S.A.

Academic Qualifications:

University Education:

- October 1999 **Doctor of Philosophy degree** in Biology. Science Faculty, University of
Alexandria, Egypt. (Ph.D. researches were fulfilled in "**The Center of
Wound Healing and Reparative Medicine**", **Department of Surgery,
School of Medicine, University of Minnesota, Minneapolis, Minnesota,
U.S.A.** - From January 1996 to February 1998).
Major: Developmental Biology.
Title of Thesis: "Studies on the Effects of Immunomodulators and Growth
Factors on Allograft Rejection and Regeneration in the Common Egyptian
Toad and Other Amphibians."
March 1993 **Master Degree** in Science. Science Faculty, University of Alexandria, Egypt.
Major: Developmental Biology.
Title of Thesis: "Effect of Cyclophosphamide on Hindlimb Regeneration in
Larval Stages of the Egyptian Toad, *Bufo regularis* Reuss, After Transection
at the Shank Level".
June 1986 **Bachelor degree** in Zoology (Very Good with Honour). Science Faculty,
University of Alexandria, Egypt.
Major: Zoology.

School Education:

- 1969 – 1982 From nursery to high school at English Girl's College (E.G.C.), the best
private British school in Alexandria, Egypt.

Professional Experience:

- Sept. 2006 - current **Assistant Professor** of Biology, Faculty of Science, King Faisal
University, Hofuf (AL-Hasa), Saudi Arabia.
Nature of Work: Lecture teaching, practical classes supervision
and research.

- Jan. 2000 – Aug.2006 **Assistant Professor** of Zoology, Zoology Department, Faculty of Science, Alexandria University, Alexandria, Egypt.
Nature of Work: Lectures teaching, practical classes supervision and research.
- Feb. 1998 – Jan. 2000 **Teaching Assistant** of Zoology, Zoology Department, Faculty of Science, Alexandria University, Alexandria, Egypt.
Nature of Work: Practical teaching and research.
- Jan. 1996 – Feb. 1998 **Doctoral Associate** in Center of Wound Healing and Reparative Medicine, Department of Surgery, School of Medicine, University of Minnesota, Minneapolis, Minnesota, U.S.A.
Nature of Work: Research for Ph.D. thesis fulfillment (Joint Supervision Program - Channel System Mission from Mission Dept, Ministry of Higher Education, Cairo, Egypt).
- May 1993 – Jan. 1996 **Teaching Assistant** of Zoology, Zoology Department, Faculty of Science, Alexandria University, Alexandria, Egypt.
Nature of Work: Practical teaching and Research.
- Oct. 1986 – May 1993 **Demonstrator** of Zoology, Zoology Department, Faculty of Science, Alexandria University, Alexandria, Egypt.
Nature of Work: Practical teaching and Research.

Other Experience:

- Aug. 2004 – July 2005 **Technical English Language Instructor** at IHRDC (International Human Resources Developmental Corporation, for ELNG (Egyptian Natural Liquefied Gas) Training Center, Fleming, Alexandria, Egypt.

University Teaching:

Undergraduate level:

- “General Biology” for preparatory year students, Faculty of Pharmacy, King Faisal University, KSA.
- "Human Biology" for first grade Medical School Students and Preparatory Year students, King Faisal University, KSA
- “Embryology” and "Histology" for third grade students. Alexandria University (Egypt) and King Faisal University (KSA).
- “Comparative Anatomy” for fourth grade students, Alexandria University (Egypt) and King Faisal University (KSA).

Graduate level:

- “Comparative Anatomy”, Alexandria University (Egypt).

Involvement with Students:

i- Postgraduate Students:

- Oct. 2010 Examiner and member of jury committee on master thesis, Biology Dept., Faculty of Science, King Abdulaziz University, KSA
Title: "Therapeutic effect of ginger to limit the harmful effects of tetracycline drug on the development of some organs of embryos and suckling of albino rats".
- Supervision on *M.Sc.* Theses in Zoology dept., Faculty of Science, University of Alexandria, Egypt:-
- Dec. 2005 – July 2010 **Mayada Ali Mahmoud Ali Hassan**
Title of thesis: "Distribution of nitric oxide producing cells through the spinal cord length in two amphibian orders, anurans and urodeles."
- Oct. 2002 – April 2005 **Kawakeb Aly Omran Saad.**
Title of thesis: "Effect of immunomodulator Cyclosporine A on amputated hindlimb regeneration in stages of the Egyptian *Bufo regularis* Reuss."
- Nov. 2002 – Feb 2006 **Shereen Abdel Salam Ibrahim.**
Title of thesis: "Fin regeneration in the Teleost *Oreochromis aureus* with reference to the alteration in the contents of glycogen, protein and nucleic acids during the regenerative process."

ii- Undergraduate Students:

a. Supervision on Bachelor degree researches in Biology Dept., Faculty of Science, King Faisal University, KSA:

- 2010 - 2011 Ten students
2009 – 2010 One student
2008 – 2009 Five students
2007 – 2008 Ten students
2006 – 2007 Six students

b. Supervision on Bachelor degree researches in Zoology dept., Faculty of Science, University of Alexandria, Egypt:

- 2005 – 2006 **Fatma El-Zahraa Salah, Fardous M. Hassan and Nourhan M. Mahmoud.** "Proteins Regulating Embryogenesis."
- Aug. 2005 (3 weeks) Summer Training for third year Zoology students.
- 2003 - 2004 **Mohammad K. Abdel Naby, Mahmoud S. Mahmoud and Mervat A. Abdel Rahman.** "Transplantation and Immunology."
- 2003 - 2004 **Samah S. Younis, Zeinab Z. El-Eraky and Salwa K. Omar.** "Embryology in Human".
- 2002 - 2003 **Karim M. Ibrahim and Amr A. Al Kassas.** "Development and Formation of Eye in Vertebrates".
- 2001 – 2002 **Emad M. Saad, Essam M. Roshdy, and Shenouda, F. Fares.** "Regeneration in Invertebrates".

Dr. Gehan Fahmy, C.V. (5 – 10)

- 2001 – 2002 **Enas A. Shaker, Riham M. El- Shendidi, and Siimaa M. Mostafa.**
 "Regeneration in Vertebrates".
- iii- Examiner for Bachelor degree researches in Zoology dept., Faculty of Science,**
 University of Alexandria, Egypt:
- 2005 – 2006 **Rania A. Mohammad, May A. Ahmed and Esha A. Omar.** "Hox
 Genes and Tetrapod Limbs."

Certificates Obtained, Awards and Courses Attended:

Language Certificates:

- March 2010, Oct. 1999 **IELTS** (International English Language Testing System) : Score 7.0.
 British Council, Al-Khobar, KSA. Score 6.5, British Council,
 Alexandria, Egypt.
- April 1995, Oct. 1991 **TOEFL** (Tests of English as Foreign Language) Score 510 and 543
 respectively. American Cultural Center, Alexandria, Egypt.

Scientific Certificates and Courses Attended:

- May 2009 **E-learning, Teaching Skills and Internet Education.** King Fahd
 University of Petroleum and Minerals, KSA
- Jan. 2009 **Building Quizzes and Exams: using WebCT.** King Faisal University,
 Al-Hasa, KSA
- Nov. – Dec. 2005 **Eisenhower Leadership Program.** A program for enhancing educational
 leadership skills. Eisenhower Fellowships, 256 South 16th Street,
 Philadelphia, PA 19102, USA.
- Dec. 2005 **Attendance Certificate** for participating in "First Annual Biomedical
 Research Symposium, Cellular and Molecular Organogenesis, St. Jude
 Children Research's Hospital, Memphis, Tennessee, USA
- Nov. 2005 **Attendance Certificate** for participating in 35th Annual Symposium for
 Neuroscience", Washington D.C., U.S.A.
- June - July 2005 Training for "Bioinformatics" course in Bordeaux 2 University, Bordeaux,
 France.
- Jan. – Feb 2005 Training for "Cellular Imaging" course in Bordeaux 2 University,
 Bordeaux, France.
- Oct. 1997 **Attendance Certificate** for participating in International European
 A.I.R.R. Conference in Cologne, Germany.
- April 1996 **Certificate of Achievement.** Recognition of Research and Poster at the
 Symposium, Newton W. Winchell Research Symposium. University of
 Minnesota, Minnesota, U.S.A.
- April 1996 **Radiation Safety Course,** University of Minnesota, Minneapolis,
 Minnesota, U.S.A..
- Sept. 1993 **University Lecturer Preparation Course.** Faculty of Education,
 Alexandria University, Alexandria, Egypt.

Awards:

Jan. 2005

"Eisenhower Fellowship" for the 2005 Single Region Program. Selected fellow from Egypt by a distinguished nominating American committee. Six weeks program (November and December, 2005) for meeting cultural, educational and scientific leaders. Philadelphia, U.S.A.

Jan. 1996 – Feb. 1997

"Joint Supervision Channel System", Center of Wound Healing and Reparative Medicine, Surgery dept. School of Medicine, University of Minnesota , U.S.A. Awarded from the Ministry of Higher for Ph.D. researches fulfilment.

Researches and Publications:

Published Researches:

Fahmy GH, Moftah, MZ (2010): FGF-2 in Astroglia cells during vertebrate spinal cord recovery. *Frontiers in Cellular Neuroscience.* 4:1-9

Fahmy GH (2005): The effect of human insulin on hindlimb regeneration in tadpole larvae of *Bufo americanus*. *Journal of Egyptian German Society of Zoology* 46(B): 191-201

Fahmy GH, Sicard RE (2002): A role for effectors of cellular immunity in epimorphic regeneration of amphibian limbs. *In Vivo* 16:179-184

Fahmy GH, Sicard RE (1998): Acceleration of Amphibian Forelimb Regeneration by Polypeptide Growth Factors. *Journal of Minnesota Academy of Science* 63 (2):58–60

Fahmy GH, Sicard RE (1997): Modulation of the Progress of Regeneration by Polypeptide Growth Factors. *Journal of Minnesota Academy of Science* 61:7–8

Johnson L, **Fahmy GH,** and Sicard RE (1996): Growth Factor Influences on Forelimb Regeneration of Adult Newts. *Journal of Minnesota Academy of Science.* 60:30

Michael MI, Aziz FK, and **Fahmy GH (1994):** Effect of Cyclophosphamide on Hindlimb Regeneration in Two Larval Stages of the Toad, *Bufo regularis* Reuss After Transection at the Shank Level. I. Low Concentration. *Journal of Union Arab Biologists* 1(A):149–173

Michael MI, Aziz FK, and **Fahmy GH (1994):** Effect of Cyclophosphamide on Hindlimb Regeneration in Two Larval Stages of the Toad, *Bufo regularis* Reuss After Transection at the Shank Level. II. High Concentration. *Journal of Egyptian and German Society of Zoology.* 15(B):193–209

Michael MI, Aziz FK, and **Fahmy GH (1993):** Effect of Cyclophosphamide on Limb Regeneration in Stages of *Bufo regularis* Reuss. *Limb Development and Regeneration* 213–222

Unpublished Researches:

Fahmy GH and Abbas EM: Effects of Immunomodulator Cyclosporine A on Regenerative Capacity of Amputated Hindlimbs in Larval Stages of the Saudi Toad, *Bufo arabicus* (in prep.)

Fahmy GH and Omran KS: Effect of immunosuppressant Cyclosporine A on limb regeneration in tadpole larvae of *Bufo regularis*. (in prep.)

Presentations at Conferences and Professional Meetings:

- Dec. 2009 FGF-2 in Astroglia cells during vertebrate spinal cord recovery. **3rd Mediterranean Conference of Neuroscience**. Zoology Dept., Faculty of Science, Alexandria University, Egypt. (presentation)
- April 2009 Fin Regeneration in the Teleost, *Oreochromis aureus*, with Reference to the Alterations in the Glycogen and Protein Contents during the Process of Regeneration. **The Twenty Forth Meeting of Saudi Biological Society, Biotechnology: Reality and Application**. Taibah University, Al-Madina Almonawarah. KSA (presentation)
- Dec. 2008 Effects of Fibroblast Growth Factor-2 (FGF-2) on Nervous Regeneration in the Tadpole Larvae of *Bufo Arabicus*. **The Thirty Second Scientific Conference of the Egyptian Histological and Cytological Society**. Zagazig University, Egypt. (poster)
- June 2006 **The Second Conference of the Egyptian Society of Experimental Biology** (Organizing Committee). Zoology Dept. Faculty of Science, Alexandria University.
- Jan. 2006 **The Monthly Zoology Dept. Seminar**. Faculty of Science, Alexandria University. (Presentation).
- Dec. 2005 **First Annual Biomedical Research Symposium, Cellular and Molecular Organogenesis**, St. Jude Children Research's Hospital, Memphis, Tennessee, USA (Professional meeting).
- Nov. 2005 **Indiana University-Perdue University Indiana (IUPUI)**, Indianapolis, Indiana, U.S.A. (Presentation).
- Nov. 2005 **Society of Neuroscience Annual Meeting**, Washington DC, USA (Professional meeting).
- Sept. 2004 **Tempus Project Representatives Meeting**. Humbolt University, Berlin, Germany (Professional meeting).
- Sept. 1997 Modulation of the Progress of Regeneration by Polypeptide Growth Factors. **International A.I.R.R. Conference on "Cellular and Molecular Aspects During Regenerative Processes in Animals"**. Zoological Institute, University of Cologne, Cologne, Germany. (Presentation).
- Aug. 1997 Influences of Polypeptide Growth Factors on Limb Regeneration of Adult Newts. **International Symposium on "Mechanism of Metamorphosis and Regeneration Keys to Tissue Restoration"**. Indiana University, Purdue University. Indianapolis. U.S.A. (Poster).

- April 1997 Modulation of the Progress of Regeneration by Polypeptide Growth Factors. **Symposium of Wound Repair, Regeneration, and Tissue Engineering. 65th Annual Meeting of Minnesota Academy of Science.** University of Minnesota, St. Paul, Minnesota. U.S.A. (Presentation).
- Oct 1996 Growth Factors Promote Forelimb Regeneration in Adult Newts. **5th Annual Symposium in Developmental Biology.** University of Minnesota, St. Paul, Minnesota. U.S.A. (Poster).
- April 1996 Growth Factors Influences on Forelimb Regeneration of Adult Newts. **64th Annual Meeting of the Minnesota Academy of Science.** Hamline University, St. Paul, Minnesota. U.S.A. (Poster).
- June 1992 Effect of Cyclophosphamide on Limb Regeneration in Stages of the Toad, *Bufo regularis* Reuss. **4th International Conference on Limb Development and Regeneration.** Asilomar Conference Center. Pacific Grove, California, U.S.A. (Poster).

Books:

- 2010 **"Principles of Chordate Embryology"**. Faculty of Science, King Faisal University, KSA.
- 2005 **"Descriptive Atlas of Chordate Structure"**. Faculty of Science, Alexandria University, Alexandria, Egypt.
- 2001 **"Essentials of Chordate Biology"**. Faculty of Science, Alexandria University, Alexandria, Egypt.

University and Community Services:

Contributions:

- Oct. 1986 – current Member in Syndicate of Scientists. Alexandria, Egypt. .
- 1996 – 1998 Member in Repair / Regeneration Journal Club, Center of Wound Healing and Reparative Medicine, Surgery dept., University of Minnesota, Minnesota, U.S.A.
- March 1997 – Feb. 1998 Member of Board in "Commonwealth Child Care Center". St. Paul, Minnesota, U.S.A.
- Jan. 2000 – Aug. 2006 Member of Social Committee, Zoology Department, Faculty of Science, University of Alexandria , Alexandria, Egypt.
- Feb. 2008 – current Member of Laboratory Committee, Biology Dept., Faculty of Science, King Faisal University, AL-Hasa, KSA
- April 2008 – June 2009 Member of Board, Nada International School (NIS), Al-Hasa, KSA

Membership in Professional Organizations:

- Sept. 2010 - current Member in "Journal of Taibah University for Science". KSA
- Oct. 2008 - current Member in "The Saudi Journal of Life Sciences". KSA
- Jan. 2005 - current Member in "Journal of Egyptian and German Society of Zoology". Egypt
- April 1996 - 2001 Member in "Journal of Wound Repair and Regeneration". Official Publication of the "Wound Healing Society". USA

Projects:

- Oct 2010 Funded research project, **King Faisal University**. Neurotoxicity and Teratogenicity of Chlorpyrifos on Developing Chick Embryos. **(submitted)**
- Feb. 2010 Funded research project, **King Faisal University**. Histochemical and Biochemical studies on the effect of regeneration on the changes in liver and muscle contents of the blue tilapia, *Oreochromis aureus*
- Jan. 2007 – 2008 Funded research project, **King Faisal University**. Differential localization of FGF-2 in *Bufo arabicus* larvae during spinal cord regeneration.
- Jan. 2005 – Aug. 2006 **Egypt-France Integrated Activities Program (IMHOTEP)**. Funded by Scientific Academy for Research and Technology and French Ministry of Foreign Affairs. Entitled: "*Effects of FGF-2 on Nervous Regeneration in Vertebrates after Spinal Cord Lesion*".
- Oct. 2004 – Aug. 2007 **TEMPUS project**, CD_31196-2003, entitled: "*Updating Life Science Studies Using New Curricula and Technologies at the Zoology dept., Faculty of Science, Alexandria University*" (ULISS). Funded by the European Commission.
- Dec. 2003 – Dec. 2008 Quality Assurance and Accreditation Projects (QUAAP). Funded by HEEP, U.S.A.
- May 2002 – Sept. 2006 Collaborative work with **INSERM** (Institut National de la Santé et de la Recherche Médicale), EPI 9914 "Physiopathologie des Réseaux Neuronaux Médullaires" in the university of Bordeaux 2, France --- Entitled: "*Locomotor recovery after Spinal Cord Transection in Urodele amphibian, Pleurodele waltl*".

Hobbies:

1972 - 1982 Swimming: Yaught club team. Alexandria, Egypt

References:

1. **Prof. Dr. Shar ben Saad Al-Shihry**, Dean of Science Faculty, King Faisal University, Al-Hasa, KSA.
E.mail: sshihry@kfu.edu.sa
2. **Dr. Mohammad ben Nafee Al-Kahtany**, Head of Life Sciences Dept., Faculty of Science, King Faisal University, Al-Hasa, KSA.
E.mail: malkahtani@kfu.edu.sa
3. **Ambassador John Wolf**, Current President of "Eisenhower Fellowships", Philadelphia, U.S.A. and former Ambassador of USA in Malaysia. 256 South 16th Street, Philadelphia, PA 19102, USA.
E-mail: jwolf@eisenhowerfellowships.org
4. **Prof. Dr. Hany Helal**, Current Minister of "Higher Education and Scientific Research". Cairo, Egypt. E-mail: hhelal@tempus-egypt.com

5. **Dr. Mark Carnesi**, Senior Program Officer in "Eisenhower Fellowships". 256 South 16th Street, Philadelphia, PA 19102, USA.
E-mail: mcarnesi@eisenhowerfellowships.org
6. **Prof. Dr. Hanafy Holayel**. Dean of the Faculty of Science and Professor of Geology, University of Alexandria, Moharram Bey, 21511, Alexandria, Egypt.
7. **Prof. Dr. Ismail A. Sadek**, former Vice Dean for Student Affairs, Faculty of Science, Alexandria University, Moharram Bey 21511, Alexandria, Egypt.
8. **Prof. Dr. Samir Dekinesh**, Head of Zoology Dept. and Professor of Ecology, Faculty of Science, University of Alexandria, Moharram Bey, 21511, Alexandria, Egypt.
E-mail: dekinesh2003@yahoo.com
9. **Prof. Dr. Milad I. Michael**. Professor of Experimental Zoology. Zoology Dept. Faculty of Science, University of Alexandria, Alexandria, Egypt.
10. **Prof. Dr. Ismail Sabry**, Supervisor of AL-Shatby Building and Professor of Endocrinology, Faculty of Science, Alexandria University. E-mail: ismailsabry@yahoo.com
11. **Prof. Dr. Raymond E. Sicard**. Professor of Basic Sciences. School of Osteopathic Medicine, Pikeville College, 147 Sycamore St. Pikeville, KY 41501, U.S.A.
12. **Dr. Gretchen Unger**. President, GeneSegues, Inc9, Minneapolis, MN, U.S.A.
E-mail: gmu@genesegues.com
13. **Prof. Dr. Marc Landry**. Professor of Cell Biology, Institut François Magendie Université Victor Segalen, Bordeaux 2. F-33077 Bordeaux, Cedex – France.
E-mail: marc.landry@biocell.u-bordeaux2.fr
14. **Mr. Fouad Nasr**. Manager of Egyptian Liquefied Natural Gas Training Center. International Human Resource Developmental Corporation. Fleming, Alexandria, Egypt.
E-mail: fouadnasr_ihrdc@rite.com

References are available upon request.