



I ♥ Immunology

# Curriculum Vitae



## PERSONAL INFORMATION:

**Name:** Gamal Gamal Abdelraouf Badr

**Current Position:** Professor of Immunology

**Nationality:** Egyptian

**Date of Birth:** 20/11/1973

**Place of Birth:** El-Menoufia – Egypt

**Marital Status:** Married



## RESEARCH INFORMATION:

**Researcher ID:** I-4891-2014

**Scopus Author ID:** <https://www.scopus.com/authid/detail.uri?authorId=35338908600>

**Scopus H-index = 27**      **Scopus total documents = 94**

**Google Scholar H-index = 32**

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**Google Scholar website:** <http://scholar.google.com.eg/citations?hl=en&user=dz13dkQAAAAJ>

## ACADEMIC QUALIFICATIONS:

- 1. PhD. in Immunology** with the best distinction “Tres honorable” from Faculty of Medicine, Paris Sud University (Paris XI), France (April 2005).  
**Title:** Regulation of B cell chemotaxis by cytokines and gp120 envelope protein of human immunodeficiency virus 1/HIV-1
- 2. M.Sc. in Immunology**, Faculty of Science, Paris Sud University (Paris XI), France (July 2001).  
**Title:** Structures and functions of integrated biological systems.
- 3. Bachelor of Science** from Zoology Department, Faculty of Science, Menoufia University, Egypt (May 1995) Grade: very good with honours.

## **EMPLOYMENT HISTORY:**

1. **From February 2016 to present**, Full Professor of Immunology at Zoology department, Faculty of Science, Assiut University, Egypt.
2. **From January 2011 to February 2016**, Associate professor of Immunology at Zoology department, Faculty of Science, Assiut University, Egypt.
3. **From January 2011 to August 2013**, Associate professor of Immunology at King Saud University, Saudi Arabia.
4. **From 13/10/2008 to January 2011**, Assistant professor at Zoology department, College of Science, King Saud University, Saudi Arabia.
5. **From 26/ 06/ 2005 to 31/12/2010**, Assistant professor at Zoology department - Faculty of Science - Assiut University.
6. **From 25/01/2007 to 10/10/2008**, Postdoctoral fellowship (Assistant Professor) at Montreal University, Canada. This fellowship was funded by FRSQ, Montreal, Canada.
7. **From October 1996 to May 2005**, Demonstrator at Zoology department-Faculty of Science-Assiut University-Egypt.

## **AWARDS:**

1. **2019**, The Best Arabic Researcher (2018) from the Association of Arab Universities.
2. **2017**, Award from Faculty of Science- Assiut University for the higher Impact Factor paper.
3. **2012**, The State Encouragement Prize in Basic Science from the Academy of Scientific Research and Technology, Egypt.
4. **March 2009**, Award from Assiut University for the scientific distinction.
5. **December 2007**, award for the best oral presentation of Post-doctors in the 10<sup>th</sup> Annual Conference of CHUM, Montreal University, Canada.

## **Editorial Member in Peer-Reviewed International Journals:**

Associate Editor in BMC Immunology (**IF =2.6**)  
<http://www.biomedcentral.com/bmcimmunol/about/edboard>

Associate Editor in BMC Complementary and Alternative Medicine (**IF =2.1**)  
<https://bmccomplementalmed.biomedcentral.com/about/editorial-board>

## **Permanent Reviewer for the Following Peer-Reviewed International Journals:**

Cellular Immunology, Plos One, European Journal of Pharmacology, Food and Chemical Toxicology, Cellular Physiology and Biochemistry, Molecular Biology Reports, Experimental and Molecular Pathology, Clinical and Developmental Immunology, Diabetes Research and Clinical Practices, Journal of Medicinal Food, Toxicon, Cell Proliferation, Tissue and Cell, Medicinal Research Reviews.

Access to the reviewed papers in international peer-reviewed journals with impact factor:  
<https://publons.com/author/1185571/gamal-badr#profile>

## **TEACHING EXPERIENCES:**

### **A. For Undergraduate Students:**

- **Faculty of Science, Assiut University: From 14/9/2013 to present**, I teach the following courses: Immunology, Haematology, Healthy Feeding and Molecular Biology.
- **Ataturk University, Turkey: From 02/05/2013 to 16/05/2013**, I taught Immunology, Haematology and Physiology courses to students at Faculty of Medicine.
- **King Saud University, Saudi Arabia: From 14/10/2008 to 15/06/2011**, I taught the following courses: General Biology (Zoo 145), Immunology (Zoo 356), Cell culture (Zoo 341) and Graduation Project (Zoo 499) as well as practical courses of Immunology.
- **Faculty of Science, Assiut University: From 14/9/2005 to 05/1/2007**, I taught the following courses: Physiology, Histology, Comparative Anatomy, and Micro techniques.
- **Faculty of Education, New Valley, Assiut University: From 14/9/2005 to 05/1/2007**, I taught the following courses: Entomology, Comparative Anatomy, and Chordates.
- **Faculty of Science, Assiut University: From 16/10/1996 to 20/4/2000**, I taught the following practical courses: Animal Physiology, Cytology, Histology, Parasitology, Comparative Anatomy, Taxonomy and Entomology.

### **B. For Postgraduate Students:**

- **Faculty of Science, Assiut University: From 14/9/2013 to present**, I teach the following courses: Basic Immunology and Practical Immunology, Molecular Immunology, Tumor Immunology, Immunopathology, Comparative and Developmental Immunology, Cellular Signalling, Molecular Haematology, Lab and Research Project in Immunology, Cell Cycle Control and Cancer and Principals of Animal Cell and Tissue Culture.

## **SUPERVISORY EXPERIENCE OF RESEARCH STUDENTS:**

1. **Currently** I'm supervising 10 MSc. & PhD. students at Faculty of Science, Assiut University.
2. **From 10/2013 to 2017**, I supervised one MSc student at Faculty of Science, Assiut University, Egypt.  
**Title: Immuno-modulatory effects of camel whey protein in streptozotocin-induced type I diabetic albino mice**, published at Assiut University, Egypt, 2017.
3. **From 7/2011 to December 2014**, I supervise one PhD. Student in Immunology & Parasitology, Zoology department, Faculty of Science, Cairo University-Egypt.  
**Title: Immunological Modulation of Auto-Immune Systemic Lupus Erythematosus (SLE) in Female BWF1 Mice Infected with Malaria**, published at Cairo University, Egypt, 2015.
4. **From 01/2009 to 2012**, I supervised one MSc student at College of Science, King Saud University, Saudi Arabia.  
**Title: Effect of Vitamin E and Thymoquinone on the physiological parameters in heat-stressed male mice**, published at King Saud University, Saudi Arabia, 2011.
5. **From 01/2007 to 9/2008**, supervise one MSc and one PhD Students in Immunology, University of Montreal, Canada.
6. **From 10/2006 to 08/2009**, I supervised one MSc. Student in Immunology, Zoology department, Faculty of Science, Assiut University-Egypt.

**Title: Effect of Type I Interferon (Interferon alpha and beta) on the protection of B Lymphocytes from Apoptosis**, published at, Assiut University, Egypt, August 2009.

### **RESEARCH ACTIVITIES AND INTERESTS:**

1. Utilization of nanoparticles to deliver natural anticancer products to fight cancer cells.
2. Immunobiology and cell signalling of immune cells in normal versus pathological diseases including cancers, Hepatitis C virus, diabetes and other autoimmune diseases.
3. Utilization of natural compounds for induction of apoptosis in cancer cells.
4. Utilization of natural antioxidants for improving complications, immune cells functions and wound healing during diabetes mellitus.
5. Effect of malnutrition and food restriction during gestation on the architecture and response of immune system in the offspring.

### **MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:**

1. Canadian Society for Immunology. Membership number: **826398:g**
2. The American Association for Immunologists. Membership number: **00228370**
3. American Society of Hematology. Membership ID: **1106566**
4. Science. Membership ID: **20324299**
5. The German Society of Immunology (DGFI). Membership ID: **4244**
6. The Egyptian German Society of Zoology. Membership ID: **338**
7. The Egyptian Association of Cancer Research.

### **PUBLICATIONS:**

#### **A. Published Books:**

1. Olivier Garraud, Hind Hamzeh-Cognasse, **Gamal Badr**, Pauline Damien, Kim Ahn Nguyen, Sandrine Laradi and Fabrice Cognasse. Human platelets—danger sensing and inflammation: Helpful or harmful? Recent Res. Devel. Cell Biol., 4(2012): 25-37 ISBN: 978-81-7895-565.

#### **B. Articles in Peer-Reviewed International Journals indexed in Scopus (with Impact Factor):**

##### **➤ Currently Submitted Articles**

1. **Gamal Badr**, Eman Abdo Sayed, Hanan Waly, Khadiga Abdel-Hameed Hassan, Mohamed H. Mahmoud and Zeliha Selamoglu. The therapeutic mechanism of propolis against liver fibrosis through mediating apoptosis of hepatic stellate cells and improving the hepatic architecture by targeting PI3K/AKT/mTOR, TGF- $\beta$ /Smad2, Bcl2/BAX/P53 and iNOS signalling pathways. Journal of Nutritional Biochemistry. (**IF= 4.4**). April **2019**.
2. **Gamal Badr**, Ghada Abd El-Reda, Hany El-Gamal and Mohamed El-Azab Farid. Exposure to radioactive rocks from the Egyptian eastern desert attenuates the efficiency of the immune organs and induces apoptosis of blood lymphocytes in rat model. Environmental Science and Pollution Research. (**IF= 2.7**). March **2019**.

##### **➤ Published Articles.**

1. **Gamal Badr**, Asmaa M. Zahran, Hossam M. Omar and Martina A. Barsoum. Camel whey protein disrupts the cross-talk between PI3K and BCL-2 signals and mediates apoptosis in primary acute myeloid leukemia cells. Accepted in Nutrition and Cancer. (**IF= 2.3**). March **2019**.

2. Nagwa Abo El-Maali, [Gamal Badr](#), Douaa Sayed, Randa Adam and Gamal Abd El Wahab. Enhanced susceptibility to apoptosis and growth arrest of human breast carcinoma cells treated by silica nanoparticles loaded with monohydroxy flavone compounds. *Biochemistry and Cell Biology* 2019 Jan 14. doi: 10.1139/bcb-2018-0133. (IF= 2.25). February 2019.
3. Maha Daghestani; Zeinab Hassan; [Gamal Badr](#); Hanaa Hakami; Maysoor Amin; Mohannad Amin. The anticancer effect of *Echis coloratus* and *Walterinnasia aegyptia* venoms on colon cancer cells. *Toxin Reviews*. doi.org/10.1080/15569543.2018.1564774 (IF= 1.88). March 2019.
4. Mostafa A. Abdel-Maksoud, Fathy A. Abdel-Ghaffar, Azza El-Amir, [Gamal Badr](#), Saleh Al-Quraishy. Altered renal immune complexes deposition in female BWF1 lupus mice following *Plasmodium chabaudi* infection. *Saudi Journal of Biological Sciences*, 2018 December, 25(8): pp. 1609-1616. (IF= 3.138). December 2018.
5. Wael N. Hozzein, [Gamal Badr](#), Badr M. Badr, Ahmed Allam, Ahmad Al-Ghamdi, Mohammed A. Al-Wadaan, Noori S. Al-Waili. Bee venom improves diabetic wound healing by protecting functional macrophages from apoptosis and enhancing Nrf2, Ang-1 and Tie-2 signaling. *Molecular Immunology*. 2018;103: 322-335. (IF= 3.18).
6. Nancy K. Ramadan, [Gamal Badr](#), Hanem S. Abdel-Tawab, Samia F. Ahmed and Mohamed Mahmoud. Camel whey protein enhances lymphocyte survival by modulating the expression of Survivin, Bim/Bax, and Cytochrome C and restores heat stress-mediated pathological alteration in lymphoid organs. *Iran J Basic Med Sci*, Vol. 21, No. 9, Sep 2018 (IF= 1.5). September 2018.
7. [Gamal Badr](#), Hanem S. Abdel-Tawab, Nancy K. Ramadan, Samia F. Ahmed and Mohamed Mahmoud. Protective effects of camel whey protein against scrotal heat-mediated damage in the mouse testis through YAP/Nrf2 and PPAR-gamma signaling pathways. *Mol Reprod Dev*. 2018 Jun;85(6):505-518. (IF= 3.11). Jun 2018.
8. [Gamal Badr](#), Halise Inci Gul, Cem Yamali, Amal A. M. Mohamed, Badr M. Badr, Mustafa Gul, Ahmad Abo Markeb and Nagwa Abo El-Maali. Curcumin analogue 1,5-bis(4-hydroxy-3-((4-methylpiperazin-1-yl)methyl)phenyl)penta-1,4-dien-3-one mediates growth arrest and apoptosis by targeting the PI3K/AKT/mTOR and PKC-theta signaling pathways in human breast carcinoma cells. *Bioorg Chem*. 2018 Mar 7;78:46-57. (IF= 3.93). March 2018.
9. Nashwa El Shinnawy, Sahar Abd Elhalem, Nawal Haggag and [Gamal Badr](#). Ameliorative role of camel whey protein and rosuvastatin on induced dyslipidemia in mice. *Food Funct*. 2018 Feb 21;9(2):1038-1047. (IF= 3.29). February 2018.
10. Salem ML, E El Naggar R, A El Naggar S, A Mobasher M, H Mahmoud M, [Gamal Badr](#). Higher Activities of Hepatic Versus Splenic CD8+ T Cells in Responses to Adoptive T Cell Therapy and Vaccination of B6 Mice with MHC Class-1 Binding Antigen. *Iran J Allergy Asthma Immunol*. 2017 Dec;16(6):537-553. (IF= 1.049). November 2017.
11. [Gamal Badr](#), Nancy K. Ramadan, Hanem S. Abdel-Tawab, Samia F. Ahmed and Mohamed Mahmoud. Camel whey protein protects lymphocytes from apoptosis via the PI3K/AKT, NF-κB, ATF-3 and HSP-70 signaling pathways in heat-stressed male mice. *Biochem Cell Biol*. 2017 Nov 22. doi: 10.1139/bcb-2017-0217. (IF= 2.25). November 2017.
12. [Gamal Badr](#), Nancy K. Ramadan, Leila H. Sayed, Badr M. Badr, Hossam M. Omar and Zeliha Selamoglu. Why whey? Camel whey protein as a new dietary approach for the management of free radicals and for the treatment of different health disorders. Review Article accepted in *Iranian Journal of Basic Medical Sciences*. 2017 April, 20 (4):338-349. (IF= 1.5). [Review Article](#)
13. Olivier Garraud, Wael N. Hozzein and [Gamal Badr](#). Wound healing: Time to look for intelligent 'natural'—immunological—approaches? *BMC Immunol*. 2017 Jun 21;18(Suppl 1):23. (IF= 2.61). [Review Article](#)
14. Sayed LH, [Gamal Badr](#), Omar HM, Abd El-Rahim AM, Mahmoud MH. Impacts of camel whey protein on oxidative stress-mediated histopathological alterations in different lymphoid organs in a streptozotocin-induced type 1 diabetic mouse model. *Biomed Pharmacother*. 2017 Jan 24;88: 542-552. (IF= 3.46).

15. Mostafa A. Abdel-Maksoud, Fathy A. Abdel-Ghaffar, Azza El-Amir, [Gamal Badr](#), Saleh Al-Quraishy. Increased Oxidative Stress and Apoptosis in Splenic Tissue of Lupus-Prone (NZB/NZW) F1 Mice Infected with Live but not Gamma Irradiated Plasmodium chabaudi. *Pakistan J. Zool.*, **2017**, vol. 49(1), pp 331-336, (IF= 0.547).
16. [Gamal Badr](#), Sayed LH, Omar HE, Abd El-Rahim AM, Ahmed EA, Mahmoud MH. Camel whey protein protects B and T cells from apoptosis by suppressing activating transcription factor-3 (ATF-3)-mediated oxidative stress and enhancing phosphorylation of AKT and I $\kappa$ B- $\alpha$  in type I diabetic mice. *Cell Physiol Biochem* **2017**;41:41-54. (IF= 5.5).
17. Ajmal MR, Chandel TI, Alam P, Zaidi N, Zaman M, Nusrat S, Khan MV, Siddiqi MK, Shahein YE, Mahmoud MH, [Gamal Badr](#), Khan RH. Fibrillogenesis of human serum albumin in the presence of levodopa - spectroscopic, calorimetric and microscopic studies. *Int J Biol Macromol.* **2017** Jan 94 (Pt A):301-308. (IF= 3.9).
18. Ajmal MR, Zaidi N, Alam P, Nusrat S, Siddiqi MK, [Gamal Badr](#), Mahmoud MH, Khan RH. Insight into the Interaction of antitubercular and anticancer compound Clofazimine with Human Serum Albumin: spectroscopy and molecular modelling. *J Biomol Struct Dyn.* **2017** Jan;35(1):46-57. (IF= 3.10).
19. Ajmal MR, Nusrat S, Alam P, Zaidi N, Khan MV, Zaman M, Shahein YE, Mahmoud MH, [Gamal Badr](#), Khan RH. Interaction of anticancer drug clofarabine with human serum albumin and human  $\alpha$ -1 acid glycoprotein. Spectroscopic and molecular docking approach. *J Pharm Biomed Anal.* **2017** Feb 20;135:106-115. (IF= 2.83).
20. Zahran AM, Elsayh KI, Saad K, Eloiseily EM, Osman NS, Alblihed MA, [Gamal Badr](#), Mahmoud MH. Effects of Royal Jelly Supplementation on Regulatory T Cells in Children with SLE. *Food Nutr Res.* **2016** Nov 24;60:32963. (IF= 2.086).
21. Mahmoud MH, [Gamal Badr](#), El Shinnawy NA. Camel whey protein improves lymphocyte function and protects against diabetes in the offspring of diabetic mouse dams. *Int J Immunopathol Pharmacol.* **2016** Dec;29(4):632-646. (IF= 2.11).
22. Salem ML, Nassef M, Abdel Salam SG, Zidan A, Mahmoud MH, [Gamal Badr](#), Rubinstein M, Cole D. Effect of administration timing of postchemotherapy granulocyte colony-stimulating factor on host-immune cell recovery and CD8<sup>+</sup> T-cell response. *J Immunotoxicol.* **2016** Nov;13(6):784-792. (IF= 1.465).
23. Ishtikhar M, Khan MV, Khan S, Chaturvedi SK, [Gamal Badr](#), Mahmoud MH, Khan RH. Differential mode of interaction of Thioflavin T with native  $\beta$  structural motif in Human 2  $\alpha$  1-acid glycoprotein and cross beta sheet of its amyloid: Biophysical and molecular 3 docking approach. *J Biomol Struct Dyn.* **2016**, August, Volume 1117, Pages 208-217 (IF= 3.10).
24. Ajmal MR, Chaturvedi SK, Zaidi N, Alam P, Zaman M, Siddiqi MK, Nusrat S, Jamal MS, Mahmoud MH, [Gamal Badr](#), Khan RH. Biophysical insights into the interaction of hen egg white lysozyme with therapeutic dye clofazimine: modulation of activity and SDS induced aggregation of model protein. *J Biomol Struct Dyn.* **2016** Aug 5:1-14. (IF= 3.10).
25. [Gamal Badr](#), Hozzein WN, Badr BM, Al Ghamdi A, Saad Eldien HM, Garraud O. Bee venom accelerates wound healing in diabetic mice by suppressing activating transcription factor-3 (ATF-3) and inducible nitric oxide synthase (iNOS)-mediated oxidative stress and recruiting bone marrow-derived endothelial progenitor cells. *J Cell Physiol.* **2016** Oct;231(10):2159-71. (IF= 3.92).
26. Abdel-Maksoud MA, Abdel-Ghaffar FA, El-Amir A, Al-Quraishy S, [Gamal Badr](#). Infection with Plasmodium chabaudi diminishes plasma immune complexes and ameliorates the histopathological alterations in different organs of female BWF1 lupus mice. *Eur Rev Med Pharmacol Sci.* **2016** Feb;20(4):733-44. (IF= 2.38).

27. Guida MS, Abd El-Aal A, Kafafy Y, Salama SF, Badr BM, [Gamal Badr](#). Thymoquinone rescues T lymphocytes from gamma irradiation-induced apoptosis and exhaustion by modulating pro-inflammatory cytokine levels, the lipid profile and PD-1, Bax, caspase-3 and Bcl-2 expression. *Cell Physiol Biochem*. **2016** Feb 15;38(2):786-800. (IF= 5.5).
28. Ishtikhar M, Ali MS, Atta AM, Al-Lohedan H, [Gamal Badr](#), Khan RH. Temperature dependent rapid annealing effect induces amorphous aggregation of human serum albumin. *Int J Biol Macromol*. **2015** Nov 6. pii: S0141-8130(15)30074-X. doi: 10.1016/j. (IF= 3.9).
29. Al Ghamdi AA, [Gamal Badr](#), Hozzein WN, Allam A, Al-Waili NS, Al-Wadaan MA, Garraud O. Oral supplementation of diabetic mice with propolis restores the proliferation capacity and chemotaxis of B and T lymphocytes towards CCL21 and CXCL12 by modulating the lipid profile, the pro-inflammatory cytokine levels and oxidative stress. *BMC Immunol*. **2015** Sep 15;16:54. (IF= 2.65).
30. Hozzein WN, [Gamal Badr](#), Al Ghamdi AA, Sayed A, Al-Waili NS, Garraud O. Topical application of propolis enhances cutaneous wound healing by promoting TGF-beta/Smad-mediated collagen production in a streptozotocin-induced type I diabetic mouse model. *Cell Physiol Biochem* **2015**;37:940-954 (IF= 5.5).
31. Mohamed NH, Liu M, Abdel-Mageed WM, Alwahibi LH, Dai H, Ismail MA, [Gamal Badr](#), Quinn RJ, Liu X, Zhang L, Shoreit AA. Cytotoxic cardenolides from the latex of *Calotropis procera*. *Bioorg Med Chem Lett*. **2015** Oct 15;25(20):4615-20. (IF= 2.44).
32. Ishtikhar M, Khan MV, Khan S, Chaturvedi SK, [Gamal Badr](#), Mahmoud MH, Khan RH. Biophysical and molecular docking insight into interaction mechanism and thermal stability of human serum albumin isoforms with a semi-synthetic water-soluble camptothecin analog irinotecan hydrochloride. *J Biomol Struct Dyn*. **2015** Aug 26:1-49. (IF= 3.10).
33. Ragab SM, Abd Elghaffar SKh, El-Metwally TH, [Gamal Badr](#), Mahmoud MH, Omar HM. Effect of a high fat, high sucrose diet on the promotion of non-alcoholic fatty liver disease in male rats: the ameliorative role of three natural compounds. *Lipids Health Dis*. **2015** Jul 31;14:83. (IF= 2.66).
34. Mahmoud MH, [Gamal Badr](#), Badr BM, Kassem AU, Mohamed MS. Elevated IFN-alpha/beta levels in a streptozotocin-induced type I diabetic mouse model promote oxidative stress and mediate depletion of spleen-homing CD8+ T cells by apoptosis through impaired CCL21/CCR7 axis and IL-7/CD127 signalling. *Cell Signal*. **2015** Oct;27(10):2110-9. (IF= 3.48).
35. Ishtikhar M, Usmani SS, Gull N, [Gamal Badr](#), Mahmoud MH, Khan RH. Inhibitory effect of copper nanoparticles on rosin modified surfactant induced aggregation of lysozyme. *Int J Biol Macromol*. **2015** Jul;78:379-88. (IF= 3.9).
36. Parvez Alam, Sumit Kumar Chaturvedi, Tamanna Anwar, Mohammad Khursheed Siddiqi, Mohd Rehan Ajmal, [Gamal Badr](#), Mohamed H. Mahmoud and Rizwan Hasan Khan. Biophysical and Molecular Docking Insight into the Interaction of Cytosine <math>\beta</math>-D Arabinofuranoside with Human Serum Albumin. *Journal of Luminescence*. August **2015**, Volume 164,123–130 (IF= 2.73).
37. [Gamal Badr](#), Ayat Sayed, Mostafa A. Abdel-Maksoud, Amany O. Mohamed, Azza El-Amir, Fathy A. Abdel-Ghaffar, Saleh Al-Quraishy. Infection of female BWF1 lupus mice with malaria parasite attenuates B cell autoreactivity by modulating the CXCL12/CXCR4 axis and its downstream signals PI3K/AKT, NF $\kappa$ B and ERK. *PLoS One*. **2015** Apr 24;10(4):e0125340. (IF= 2.80).
38. Badr BM, Moustafa NA, Eldien HM, Mohamed AO, Ibrahim HM, El-Elaimy IA, Mahmoud MH, [Gamal Badr](#). Increased levels of type Iinterferon in a type I diabetic mouse model induce the elimination of B cells from the periphery by apoptosis and increase their retention in the spleen. *Cell Physiol Biochem*. **2015**;35(1):137-47. (IF= 5.5).
39. Ahmad B, Muteeb G, Alam P, Varshney A, Zaidi N, Ishtikhar M, [Gamal Badr](#), Mahmoud MH, Khan RH. Thermal Induced Unfolding Of Human Serum Albumin Isomers: Assigning Residual Alpha Helices to Domain II. *Int J Biol Macromol*. **2015** Feb 11;75C:447-452. (IF= 3.9).

40. Alam P, Rabbani G, [Gamal Badr](#), Badr BM, Khan RH. The surfactant induced conformational and activity alterations in Rhizopus niveus lipase. *Cell Biochem Biophys*. **2015** Mar;71(2):1199-206. (IF= **1.455**).
41. [Gamal Badr](#), Douaa Sayed, Doaa Maximous, Mustafa Gul. Increased susceptibility to apoptosis and growth arrest of human breast cancer cells treated by a snake venom-loaded silica nanoparticles. *Cell Physiol Biochem*. **2014**;34(5):1640-1651. (IF= **5.5**).
42. Ishtikhar M, Khan S, [Gamal Badr](#), Osama Mohamed A, Hasan Khan R. Interaction of the 5-fluorouracil analog 5-fluoro-2'-deoxyuridine with 'N' and 'B' isoforms of human serum albumin: a spectroscopic and calorimetric study. *Mol Biosyst*. **2014** Sep 30;10(11):2954-64. (IF= **2.75**).
43. Varshney A, Ansari Y, Zaidi N, Ahmad E, [Gamal Badr](#), Alam P, Khan RH. Analysis of Binding Interaction between Antibacterial Ciprofloxacin and Human Serum Albumin by Spectroscopic Techniques. *Cell Biochem Biophys*. **2014**;70(1):93-101. (IF= **1.455**).
44. Fatima S, Ajmal R, [Gamal Badr](#), Khan RH. Harmful Effect of Detergents on Lipase. *Cell Biochem Biophys*. **2014** Nov;70(2):759-63. (IF= **1.455**).
45. Varshney A, Rabbani G, [Gamal Badr](#), Khan RH. Cosolvents Induced Unfolding and Aggregation of Keyhole Limpet Hemocyanin. *Cell Biochem Biophys*. **2014** May;69(1):103-13. (IF= **1.455**).
46. Elsayh KI, Sayed DM, Zahran AM, Saad K, [Gamal Badr](#). Effects of pneumonia and malnutrition on the frequency of micronuclei in peripheral blood of pediatric patients. *Int J Clin Exp Med*. **2013** Oct 25;6(10):942-950. (IF= **0.83**).
47. Saleh Al-Quraishy, Mostafa Abdelmaksoud, Azza El-Amir, Fathy Abdel-Ghaffar and [Gamal Badr](#). Malarial infection of female BWF1 lupus mice alters the redox state in kidney and liver tissues and confers protection against lupus nephritis. *Oxidative Medicine and Cellular Longevity*. December **2013**. Volume 2013, Article ID 156562 (IF= **4.93**).
48. Qadeer A, Ahmad E, Zaman M, Khan MW, Khan JM, Rabbani G, Tarique KF, Sharma G, Gourinath S, Nadeem S, [Gamal Badr](#), Khan RH. Concentration-dependent antagonistic persuasion of SDS and naphthalene derivatives on the fibrillation of stem bromelain. *Arch Biochem Biophys*. **2013** Dec;540(1-2):101-16. (IF= **3.11**).
49. Mohamed K. Al-Sadoon, Danny M. Rabah and [Gamal Badr](#). Enhanced anticancer efficacy of snake venom combined with silica nanoparticles in a murine model of human multiple myeloma: molecular targets for cell cycle arrest and apoptosis induction. *Cell Immunol*. **2013** August;284(1-2):129-138 (IF= **2.995**).
50. [Gamal Badr](#), Mohamed K. Al-Sadoon and Danny M. Rabah. Therapeutic efficacy and molecular mechanisms of snake (*Walterinnesia aegyptia*) venom-loaded silica nanoparticles in the treatment of breast cancer- and prostate cancer-bearing experimental mouse models. *Free Radic Biol Med*. **2013** Jun 27;65C:175-189. (IF= **6.02**).
51. Osman Zin Al-Abdin, Danny M. Rabah, [Gamal Badr](#), Ahmed Kotb, Armen Aprikian. Differences in prostate cancer detection between Canadian and Saudi populations. *Brazilian Journal of Medical and Biological Research* **2013** Jun;46(6):539-45. (IF= **1.55**).
52. Hany M. Ibrahim, Ibrahim A. El-Elaimy, Heba M. Saad Eldien, Badr Mohamed Badr and [Gamal Badr](#). Blocking type I interferon signaling rescues lymphocytes from oxidative stress, exhaustion and apoptosis in a mouse model of type 1 diabetes. *Oxid Med Cell Longev*. **2013**;2013:148725 (IF= **4.93**).
53. Mohammed Khalid Al-Sadoon, Gamal Mohamed Orabi and [Gamal Badr](#). Toxic Effects of Crude Venom of a Desert Cobra, *Walterinnesia aegyptia*, on Liver, Abdominal Muscles and Brain of Male Albino Rats. *Pakistan J. Zool.*, **2013**, 45(5):1359-1366. (IF= **0.547**).
54. [Gamal Badr](#). Camel whey protein enhances diabetic wound healing in a streptozotocin-induced diabetic mouse model: the critical role of  $\beta$ -Defensin-1, -2 and -3. *Lipids Health Dis*. **2013** Apr 1;12(1):46 (IF= **2.66**).
55. [Gamal Badr](#), Mahmoud MH, Farhat K, Waly H, Zin Al-Abdin O, Rabah DM. Maternal supplementation of diabetic mice with thymoquinone protects their offspring from abnormal obesity and



- diabetes by modulating their lipid profile and free radical production and restoring lymphocyte proliferation via PI3K/AKT signaling. *Lipids Health Dis.* **2013** Mar 18;12(1):37. (IF= 2.66).
56. [Gamal Badr](#), Mohamed K. Al-Sadoon, Danny M. Rabah and Douaa Sayed. Snake (*Walterinnesia aegyptia*) venom-loaded silica nanoparticles induce apoptosis and growth arrest in human prostate cancer cells. *Apoptosis* **2013** Mar;18(3):300-14 (IF= 3.96).
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  58. [Gamal Badr](#), Mohamed K. Al-Sadoon, Mostafa A. Abdel-Maksoud, Danny M. Rabah and Ahmed M. El-Toni. Cellular and molecular mechanisms underlie the anti-tumor activities exerted by *Walterinnesia aegyptia* venom combined with silica nanoparticles against multiple myeloma cancer cell types. *PLoS One.* **2012** Dec 10; 7(12): e51661 (IF= 2.8).
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  60. Mohamed K. Al-Sadoon, Mostafa A. Abdel-Maksoud and [Gamal Badr](#). Induction of apoptosis and growth arrest in human breast carcinoma cells by a snake (*Walterinnesia aegyptia*) venom combined with silica nanoparticles: Crosstalk between Bcl2 and caspase 3. *Cell Physiol Biochem.* **2012** Jul 30; 30(3):653-65 (IF= 5.5).
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  62. Mohamed El-Toni A, Khan A, Abbas Ibrahim M, Puzon Labis J, [Gamal Badr](#), Al-Hoshan M, Yin S, Sato T. Synthesis of double mesoporous core-shell silica spheres with tunable core porosity and their drug release and cancer cell apoptosis properties. *J Colloid Interface Sci.* **2012** Jul 15; 378(1):83-92. (IF= 5.09).
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70. Mohamed Mohany and Mostafa El-Feki, Inas Refaat, Olivier Garraud and [Gamal Badr](#). Thymoquinone ameliorates the immunological and histological changes induced by exposure to imidacloprid insecticide. *J Toxicol Sci.* **2012** Feb; 37(1):1-11. (IF= 1.71).
71. [Gamal Badr](#), Olivier Garraud, Maha Daghestani, Mohamed Al-Khalifa and Yolande Richard. Human breast carcinoma cells are induced to apoptosis by samsun ant venom through an IGF-1-dependant pathway, PI3K/AKT and ERK signaling. *Cell Immunol.* **2012** Jan 17; 273(1):10-6 (IF= 2.99).
72. [Badr G](#), Mohany M and Abou-Tarboush F. Thymoquinone decreases F-actin polymerization and proliferation of human multiple myeloma cells through suppression of STAT3 phosphorylation and Bcl2/Bcl-xL expression. *Lipids Health Dis.* **2011** Dec 16;10(1):236 (IF= 2.66).
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74. [Gamal Badr](#), and Mohamed Mohany. Maternal Perinatal Undernutrition Attenuates T-Cell Functions in Adult Male Rat Offspring. *Cell Physiol Biochem.* **2011** Apr 1; 27(3-4):381-90 (IF= 5.5).
75. [Badr G](#), Sayed D, Alhazza IM, Elsayh KI, Ahmed EA, Alwasel SH. T-Lymphocytes from malnourished infants are short-lived and dysfunctional cells. *Immunobiology.* **2011** Mar;216(3):309-15 (IF= 2.87).
76. [Badr G](#), Alwasel S, Ebaid H, Mohany M and Alhazza I. Perinatal Supplementation With Thymoquinone Improves Diabetic Complications and T Cell Immune Responses in Rat Offspring. *Cell Immunol.* **2011** Jan 11; 267(2):133-40 (IF= 2.99).
77. [Badr G](#), Waly H, Eldien HM, Abdel-Tawab H, Hassan K, Alhazza IM, Ebaid H, Alwasel SH. Blocking Type I Interferon (IFN) Signaling Impairs Antigen Responsiveness of Circulating Lymphocytes and Alters Their Homing to Lymphoid organs: Protective Role of Type I IFN. *Cell Physiol Biochem* **2010**;26:1029-1040 (IF= 5.5).
78. Mohamed S. Abdel-Hakeem, Nathalie Bédard, [Gamal Badr](#), Mario Ostrowski, Rafick P.Sékaly, Julie Bruneau, Bernard Willems, E. Jenny Heathcote and Naglaa H. Shoukry. Comparison of Immune Restoration in Early versus Late Interferon Alpha 2 Therapy against Hepatitis C Virus, *Journal of Virology* **2010**; 84(19): 10429-10435. (IF= 4.36).
79. Alwasel SH, Abotalib Z, Aljarallah JS, Osmond C, Alkharaz SM, Alhazza IM, [Badr G](#), Barker DJ. Changes in placenta size during Ramadan. *Placenta*, **2010** Jul; 31(7): 607-10. (IF= 2.43).
80. [Badr G](#), Saad H, Waly H, Hassan K, Abdel-Tawab H, Alhazza IM, Ahmed EA. Type I Interferon (IFN $\alpha/\beta$ ) rescue human B –lymphocytes from apoptosis via PI3K/Akt, Rho-A and NF $\kappa$ B. *Cell Immunol.* **2010**;263(1):31-40. (IF= 2.99).
81. D. Sayed, [G. Badr](#), D. Maximous, N. N. H. Mikhail, F. Abu-Tarboush and M. Alhazza. HLA-G and its relation to proliferation index in detection and monitoring breast cancer patients: *Tissue Antigens* **2010** Jan;75(1):40-7. (IF= 1.34).
82. [Badr G](#), Nathalie Bédard, Mohamed S. Abdel Hakeem, Lydie Trautmann, Bernard Willems, Jean-Pierre Villeneuve, Elias K. Haddad, Rafick P. Sékaly, Julie Bruneau and Naglaa H. Shoukry. Early Interferon Therapy for HCV Rescues Polyfunctional virus-specific CD8+ Long-lived Memory T Cells. *Journal of Virology* **2008** Oct; 82 (20): 10017-10031. (IF= 4.36).
83. [Badr G](#), Borhis G, Lefevre E, Chaoul N, Frederique Deshayes F, Dessirier V, Lapree G, Tsapis A and Richard Y. BAFF enhances chemotaxis of primary human B cells. A particular synergy between BAFF and CXCL13 on memory B cells. *Blood* **2008** Mar 1; 111 (5): 2744-54. (IF= 15.13).
84. [Badr G](#), Borhis G, Treton D, Moog C, Garraud O and Richard Y. HIV type 1 glycoprotein 120 inhibits human B cell chemotaxis to CXC chemokine ligand (CXCL) 12, CC chemokine ligand (CCL) 20 and CCL21. *J Immunol.* **2005** Jul 1;175 (1):302-10. (IF= 4.85).
85. [Badr G](#), Borhis G, Treton D, Richard Y. IFN {alpha} enhances human B-cell chemotaxis by modulating ligand-induced chemokine receptor signaling and internalization. *Int Immunol.* **2005** Apr; 17(4):459-67. (IF= 5.18).

### C. Published Articles in Peer-Reviewed International Journals (with no Impact Factor):

1. Badr M. Badr and [Gamal Badr](#). The therapeutic efficacy for targeting the PI3K signaling pathway for fighting breast, prostate and multiple myeloma cancer cells. *Journal of Cancer and Biomedical Research*. March **2019**.
2. Alaa M. Ismail, Ahmed M. Abbas, Ahmed K. Bakry, Ahmed M. Abu-Elhassan, Amany O. Mohamed, [Gamal Badr](#), Mohammed A. Youssef. Expression of ERK and Akt proteins in women with unexplained first-trimester recurrent miscarriage. *Middle East Fertility Society Journal*. September **2016**. DOI: 10.1016/j.mefs.2016.09.004.
3. Hossam El-Din M Omar, Omnia HM Omar and [Gamal Badr](#), Review of Pathophysiological Aspects and Risk Factors for Liver Dysfunction. *Arch Clin Gastroenterol*. **2016**, 2(1):069-076.
4. Noori Al-Waili, Wael N. Hozzein, [Gamal Badr](#), Ahmed Al-Ghamdi, Hamza Al-Waili, Khelod Salom, Thia Al-Waili. Propolis and bee venom in diabetic wounds; A potential approach that warrants clinical investigation. *Afr J Tradit Complement Altern Med*. (**2015**) 12(6):1-11. [Review Article](#)
5. Heba M. Saad Eldien, El-Elaimy IA, Ibrahim HM, Badr Mohamed Badr and [Gamal Badr](#). Increased level of type I Interferon (IFN) during type I diabetes (T1D) induces apoptosis in spleen-homing T cells. *African Journal of Pharmacy and Pharmacology* Vol. 6(37). pp. 2675-2681.8 October, **2012**.
6. Saeed Al-Zahrani, Saleh Kandeal, Mohamed Mohany and [Gamal Badr](#). Thymoquinone and Vitamin E Supplementation Improve the Reproductive Characteristics of Heat Stressed Male Mice. *J Medicinal Plant Res*: 6(3), pp. 493-499, 23 January, **2012**.
7. Mohamed K. Al-Sadoon, Assem Fahim, Safwat F. Salama and [Gamal Badr](#). The effects of LD50 of *Walterinnesia aegyptia* crude venom on blood parameters of male rats. *African Journal of Microbiol Res* Vol. 6(3), pp. 653-659, 23 January, **2012**.
8. Mohamed Mohany, Badr Mohamed Badr, Mohamed Hassan Mahmoud, Olivier Garraud and [Gamal Badr](#). Udenatured whey protein expedites wound healing in diabetic mice model by enhancing the expression of  $\beta$ -defensin 2, 3 and Vascular Endothelial Growth Factor (VEGF) in the wounded tissue. *African Journal of Microbiology Research* Vol. 6(9), pp. 2137-2144, 09 March, **2012**.
9. [Gamal Badr](#). CXC Chemokine Ligand 12 via its cognate receptor (CXCR4) controls the chemotaxis of multiple myeloma cells via PI3K/AKT, PLC $\beta$ 3, RhoA, I $\kappa$ B $\alpha$  and ERK1/2. *African Journal of Pharmacy and Pharmacology* Vol. 5(22), pp. 2505-2512, 15 Dec, **2011**.
10. Mohamed Mohany, [Gamal Badr](#), Inas Refaat and Mostafa El-Feki. Immunological and Histological effects of exposure to imidacloprid insecticide in male albino rats. *African J Pharmacol & Pharmacy* Vol. 5(18), pp. 2106-2114. November, **2011**.
11. Saeed Al-Zahrani, Saleh Kandeal, Mohamed Mohany and [Gamal Badr](#). Effects of Vitamin E and Thymoquinone on Physiological and Histological Characteristics of Heat-Stressed Male Mice. *African Journal of Pharmacy and Pharmacology* Vol. 5(19), pp. 2174-2183, 22 November, **2011**.
12. [Gamal Badr](#). CXC Chemokine Ligand 12 (CXCL-12) Mediates Multiple Myeloma Cell Line (MDN) Chemotaxis Via PLC $\beta$ 3, PI3K/AKT, RhoA, I $\kappa$ B $\alpha$  And ERK1/2. *African Journal of Microbiology Research*, **2010**; 4 (13) 40-47.

### D. ABSTRACTS:

1. **September 2014**, [Gamal Badr](#) and Amany O. Mohamed: Increased soluble HLA-G level in multiple myeloma patients promotes disease progression via CXCL12/CXCR4 signalling. 44th Annual Meeting of the German Society for Immunology, 17 – 20 September 2014 in Bonn, Germany.
2. **July 2012**, [Gamal Badr](#): HLA-G promotes tumor expansion of multiple myeloma cells by increasing CXCL12-mediated chemotaxis" 6th International Conference on HLA-G. Paris, FRANCE.
3. **November 2009**, [G. Badr](#), D. Sayed, I.M. Alhazza, K.E. Elsayh, S.H. Alwasel. T-Lymphocytes from malnourished infants are characterized by being short-lived and dysfunctional cells. 6<sup>th</sup> World Congress on Developmental Origins of Health and Diseases 19-22 November 2009, Santiago, Chile. Abstract # O-2C-9.

4. **September 2008**, Mohamed S. Abdel-Hakeem, Nathalie Bédard, [Gamal Badr](#), Mario Ostrowski, Julie Bruneau, Rafick P. Sékaly, Bernard Willems, Jenny E. Heathcote and Naglaa H. Shoukry. Early but not late interferon alpha therapy against HCV rescues polyfunctional CD4<sup>+</sup> and CD8<sup>+</sup> memory T cells. *Cytokine*, 43,(3), Pages 306-307.
5. **September 2003**, [Badr G.](#), Treton D., Galanaud P., and Richard Y. IFN-alpha enhances the chemotaxis of memory B cells in decreasing ligand-induced chemokine receptor internalization. Annual Meeting of the International cytokine Society, ICS, September 2003, Dublin. *Eur. J cytokine Network* 2003. 14 :32 (Abstract 79).

## **CONFERENCES:**

### **A. Oral Presentations:**

1. **March 2019**, *Oral presentation and Organizing Committee Member* entitled "Therapeutic potential of gomogenat (Bee milk) against testicular damage in a streptozotocin- induced in type I diabetic mouse model. The 6<sup>th</sup> International Conference for young Researchers in Basic and Applied Sciences. Hurghada.
2. **November 2018**, *Invited speaker* for oral presentation entitled "Bee venom accelerates diabetic wound healing by suppressing ATF-3- and iNOS-mediated oxidative stress; recruiting bone marrow-derived endothelial progenitor cells; and protecting functional macrophages from apoptosis. International Congress on Biological and Medical Sciences 2018, Nigde, Turkey.
3. **January 2018**, *Invited speaker & member of the Organizing committee* for oral presentation entitled "Curcumin analogue (1,5-Bis(4-hydroxy-3-((4-methylpiperazin-1-yl)methyl)phenyl)penta-1,4-dien-3-one) mediates growth arrest and apoptosis by targeting the PI3K/Akt/mTOR and PKC-theta signaling pathways in human breast carcinoma cells" **Presented at:** The Second International Conference on Multidisciplinary Research (ICMR), 28-30 January 2018, Caribbean World Soma Bay, Red Sea, Egypt.
4. **October 2017**, *Participated in Heading the Scientific Sessions* for The 13<sup>th</sup> Scientific Conference of the Zoological Society, 14-15 October 2017, Faculty of Science, Beni-Suef University, Egypt.
5. **October 2017**, *Invited speaker* for oral presentation presented at The 9<sup>th</sup> International Scientific Conference of South Egypt Cancer Institute, 04-05 December 2017, Assiut University, Egypt.
6. **October 2015**, *Invited speaker* for oral presentation entitled "Bee venom accelerates diabetic wound healing by suppressing the activating transcription factor-3 (ATF-3) and inducible nitric oxide synthase (iNOS)-mediated oxidative stress and by recruiting bone marrow-derived endothelial progenitor cells in diabetic mice" **Presented at:** The 39<sup>th</sup> Annual International Conference of the Egyptian Society of Histology& Cytology, 17-18 December 2015, Assiut University, Egypt.
7. **October 2015**, *Invited speaker & member of the Organizing committee* for oral presentation entitled "Induction of apoptosis and growth arrest in human breast, prostate and multiple myeloma cancer cells by a snake (*Walterinnesia aegyptia*) venom combined with silica nanoparticles" **Presented at:** The First International Conference on Multidisciplinary Research, 28-31 October 2015, Ain Sokhna, Egypt.
8. **August 2015**, *Invited speaker* for oral presentation entitled "Therapeutic efficacy and molecular mechanisms of snake venom-loaded silica nanoparticles in the treatment of cancer cells. **Presented at:** The Second International Conference of New Horizons in Basic and Applied Science, 1-6 August 2015, Hurghada, Egypt.
9. **July 2012**, oral presentation entitled "HLA-G promotes tumor expansion of multiple myeloma cells by increasing CXCL12-mediated chemotaxis" 6<sup>th</sup> International Conference on HLA-G **Location:** Paris, FRANCE **Date:** JUL 09-11, 2012.
10. **November 2009**, Oral presentation entitled "T-Lymphocytes from malnourished infants are characterized by being short-lived and dysfunctional cells". 6<sup>th</sup> World Congress on Developmental Origins of Health and Diseases 19-22 November 2009, Santiago, Chile. Abstract # O-2C-9.
11. **April 2008**, Oral presentation entitled "Early Interferon Therapy for HCV Rescues Polyfunctional virus-specific CD8<sup>+</sup> Long-lived Memory T Cells" The 21<sup>st</sup> Canadian Society for Immunology Conference, Mont Tremblant Hotel, Canada.  
Website: <http://www.csi-sci.ca/UserFiles/workshoppresentersFINAL.pdf>

12. **December 2007**, Oral presentation entitled “Early Interferon Therapy Rescues HCV-specific CD8+ T cells and Selects for Bcl-2+, CD127+ Long-lived Memory T Cells” 10th Annual Conference of CHUM, Montreal University, Canada.
13. **November 2006**, Oral presentation entitled “Type I Interferon (IFN $\alpha/\beta$ ) rescue human B –lymphocytes from apoptosis via PI3K $\delta$ /Akt, Rho-A and NF $\kappa$ B” The 11<sup>th</sup> Annual Conference of The Egyptian Association of Immunologists at Sharm El Sheikh, Egypt.

#### **B. Poster Presentations:**

1. **September 2014**, [Gamal Badr](#) and Amany O. Mohamed: Increased soluble HLA-G level in multiple myeloma patients promotes disease progression via CXCL12/CXCR4 signalling. 44th Annual Meeting of the German Society for Immunology, 17 – 20 September 2014 in Bonn, Germany.
2. **September 2007**, Early Interferon Therapy Rescues HCV-specific CD8+ T cells and Selects for Bcl-2+, CD127+ Long-lived Memory T Cells. 14<sup>th</sup> International Symposium on Hepatitis C and Related Viruses, Glasgow, Scotland, UK.
3. **July 2009**, Fetal Programming of Immune Diseases. The First International Alexandria Workshop, Women and Child Health: Food and Environmental Pollution, Alexandria, Egypt.

#### **C. Attendances:**

1. **September 2014**, Attended to the meeting of The European Molecular Biology Organization (EMBO) at Paris, France.
2. **September 2012**, Attended to the meeting of The European Molecular Biology Organization (EMBO) at Nice, France.
3. **June 2006**, Attended to the 2<sup>nd</sup> conference of the Egyptian Society of the Experimental Biology at the Alexandria University, Egypt.
4. **December 2004**, Attended to the conference of Dendritic Cells at Pasteur Institute, Paris, France.
5. **October 2003**, Attended to the Chemokines II conference “Chemokines and their receptors as therapeutic targets” at Pasteur Institute, Paris, France.

#### **WORKSHOPS: I participated as a member of the organizing committee by theoretical and practical sessions in the following workshops:**

1. **November 2018**, Cell Culture Skills: Isolation, Purification and Banking of hepatocytes, Splenocytes and PBMCs. Faculty of Science, Assiut University.
2. **March 2015**, Basic Techniques in Animal Cell & Tissue Culture, March 24-26, 2015, Faculty of Science, Assiut University. At the following site: [http://www.aun.edu.eg/faculty\\_science/arabic/workshop.htm](http://www.aun.edu.eg/faculty_science/arabic/workshop.htm)
3. **April 2011**, Medical and Therapeutic Uses of Bee Products, Baqshan Chair for Bee research, King Saud University, April 26-27, 2011.
4. **24-26/5/2010**, “*Distribution of Samsun ant in the Kingdom of Saudi Arabia and the use of its venom as a natural product for the treatment of breast cancer*” Zoology department, College of Science, King Saud University.
5. **1-3/10/2005**, “*Principles of basic protein, Immunoblotting and SDS PAGE techniques*” Molecular Biology Unit, Assiut University, Egypt.
6. **11-13/03/2006**, “*B- and T- lymphocytes isolation and culture*” Molecular Biology Unit, Assiut University, Egypt.
7. **14-16/03/2006**, “*Advanced techniques on protein and their applications: Western blot, Immunoprecipitation and Pull-Down*” Molecular Biology Unit, Assiut University, Egypt.

#### **TRAINING COURSES:**

1. **December 2014**, Attended a Professional training session (15 hours) entitled: University Management, Assiut University, Egypt.

2. **December 2014**, Attended a Professional training session (15 hours) entitled: International Publication of Research, Assiut University, Egypt.
3. **December 2014**, Attended a Professional training session (15 hours) entitled: Research Team Management, Assiut University, Egypt.
4. **November 2014**, Attended a Professional training session (15 hours) entitled: Legal and Financial Aspects in University Environment, Assiut University, Egypt.
5. **November 2014**, Attended a Professional training session (15 hours) entitled: Credit Hour System, Assiut University, Egypt.
6. **November 2014**, Attended a Professional training session (15 hours) entitled: How to compete for a Research Fund, Assiut University, Egypt.
7. **October 2010**, Attended a Professional training session (10 hours) entitled: Accreditation Report Standards of the Educational Institution, Deanship of Skills, King Saud University, Saudi Arabia.
8. **November 2003**, Attended the 15<sup>th</sup> Annual course of Immunology at the Conference centre of Annecy (French Society of Immunology), France.
9. **April 2003**, Attended to the professional training session: Identification of your competence and your capabilities as related to your project and your professional environment, Paris XI University, France.
10. **January 2003**, Attended the Innate Immunology section within the extensive course of Immunology at Pasteur Institute, France.
11. **November 2001**, Extensive courses entitled: The sensation to the prevention of professional risks in the research laboratories, Pitié Salpêtrière Hospital, Paris, France.
12. **In 2000**, Extensive courses in French language from 1<sup>st</sup> level to 9<sup>th</sup> level (405 hours), at French Centre of Culture and Cooperation, Cairo, Egypt, followed by extensive courses at Alliance Française, 101 Boulevard Raspail, 75270 Paris, France.

#### **FELLOWSHIPS AND GRANTS:**

1. **From 2008 to 2009**, Post doctor fellowship from FRSQ, Canada (30 000 CAD).
2. **From 01/ 2007 to 04/ 2008**, Post doctor fellowship from CHUM, Canada (37 000 CAD).
3. **From 07/2004 to 04/2005**, Grant from Sidaction - France (13 000 €).
4. **From 04/2004 to 7/2004**, Grant from the French Institute of Health and Medical Research, INSERM, France (3000 €).
5. **From 04/2000 to 04/2005**, Graduate Scholarship from the Egyptian government to get Master and PhD degrees in the field of Immunology (70 000 €) from Paris XI University, France.

#### **FUNDED SCIENTIFIC RESEARCH PROJECTS:**

1. **2018 to present**, **Principle Investigator (PI)** of a research project entitled: The molecular mechanism underlying camel whey protein-mediated growth arrest of multiple myeloma cancer cells. Fund amount: 50000 EGP, by Assiut University.
2. **2014 to 2016**, **Co-Principle Investigator (Co-PI)** of the research project number **12- BIO-2609** entitled: Molecular mechanism of bee venom and propolis-accelerated wound healing in diabetic mice. Fund amount: 1860 000 SAD, by the National Plan for Science & Technology, King Saud University.
3. **2014 to present**, **Co-PI** of Research Group number **RGP-1435-019** in the field of Immunology, funded by the Deanship of Scientific Research, King Saud University, Saudi Arabia.
4. **2011 to 2013**, **PI** of the Research Group number **RGP-VPP-078** in the field of Immunology, funded by the Deanship of Scientific Research, King Saud University.
5. **2011 to 2013**, **Co-PI** of the research project number **10-BIO969-02** entitled: The use of venoms derived from snakes in Saudi Arabia and Nanotechnology as a new therapeutic method to induce chemotaxis

and growth arrest of Breast cancer, Prostate cancer and Multiple Myeloma. Fund amount: 1,400 000 SAD, by the National Plan for Science & Technology, King Saud University.

6. **2010 to 2012, PI** of the research project number **10-BIO975-02** entitled: Molecular Mechanism of Undenatured whey protein-induced wound healing in diabetic models. Fund amount: 497 000 SAD, by the National Plan for Science & Technology, King Saud University.
7. **2010 to 2012, PI** of the research project **NPAP3-(3)** entitled: A novel Aspect: Induction of Multiple Myeloma Cell Chemotaxis Arrest and Growth Inhibition by Natural Antioxidants and Nanoparticles. Fund amount: 350 000 SAD, by the Deanship of Scientific Research, King Saud University.
8. **2010, Co-PI** of the research project number **Zoo/2010/20** entitled: Effects of Thymoquinone on The Chemotaxis of Multiple Myeloma MDN and XG2 Cell lines. Fund amount: 50 000 SAD, by the College of Science Research Center, King Saud University.
9. **2009, PI** of the research project number **Zoo/2009/48** entitled: Effects of Vitamin C on The Immune System, Lipid Profile and Oxidative Stress during Diabetes Mellitus in Rats. Fund amount: 44 000 SAD, by the College of Science Research Center, King Saud University.

### **INTERNATIONAL COLLABORATIONS:**

1. I have been selected as a Visiting Professor at the School of Medicine, Ataturk University, Turkey. **Professor Mustafa Gul** [mustafagul@hotmail.com](mailto:mustafagul@hotmail.com)
2. **International collaboration with Professor Olivier Garraud**, Institute National de la Transfusion Sanguine, Paris, France. e-mail: [ogarraud@ints.fr](mailto:ogarraud@ints.fr)
3. **International collaboration with Professor Yolande Richard**, INSERM U1016, CNRS UMR 8104, Cochin Institute - Immunology Department- 75014 Paris, France. e-mail: [yolande.richard@inserm.fr](mailto:yolande.richard@inserm.fr)
4. **International collaboration with Professor Rizwan Khan**, Interdisciplinary Biotechnology Unit. Aligarh Muslim University, Aligarh, India. e-mail: [rizwanhkhan1@gmail.com](mailto:rizwanhkhan1@gmail.com)

### **LABORATORY EXPERIENCE & SKILLS:**

Cell and Tissue culture, Lymphocytes isolation and culture, Cell biology, ELISA, protein expression and purification, Western blot, Immunoprecipitation, SDS PAGE, PCR, Immunofluorescent Staining, Flow cytometry, LSR II Flow cytometry, Fluorescence microscopy, Histology and Immunohistochemistry.

### **COMPUTER SKILLS:**

I have an excellent experience and computer skills in Microsoft Office, EndNote, Adobe Photoshop, Cricket Graph, Claris Draw, NIH Image, Image J, STATVIEW, Sigma plot and Prism (Mac OsX and PC), CellQuest/CellQuestPro (Becton Dickinson), FlowJo.

### **LANGUAGES:**

**Arabic** (Mother language), **English** (Speak, Write, Read, understand) and **French** (Speak, Write, Read, understand).

### **REFERENCES:**

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