



Curriculum Vitae



I ♥ Immunology

PERSONAL INFORMATION:

Name: Gamal Gamal Abdelraouf BADR

Current Positions:

- Acting Vice-President for Graduate Studies & Research – Assiut University.
- Dean - Institute of Material Science and Nanotechnology, Assiut University.
- Coordinator of the International Relation Office, Assiut University.
- Member of the Basic Sciences Research Council, Academy of the Scientific Research & Technology, Egypt.



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 = 40 **Scopus total documents = 111**

Google Scholar H-index = 45

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ACADEMIC QUALIFICATIONS:

1. **PhD. in Immunology** with the best distinction “Tres honorable” from Faculty of Medicine, Paris Sud (Paris XI) University, 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 (Paris XI) University, 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 2024 to present**, Acting Vice-President for Graduate Studies & Research, Assiut University.
2. **From March 2023 to present**, Dean for Institute of Material Science and Nanotechnology, Assiut University.
3. **From September 2021 to July 2024**, Member of the Basic Sciences Research Council, Academy of the Scientific Research & Technology, Egypt.
4. **From September 2020 to present**, Coordinator of the International Relation Office, Assiut University, Egypt.
5. **From February 2020 to February 2024**, Vice Dean for Graduate Studies and Research, Faculty of Science- Assiut University, Egypt.
6. **From February 2016 to present**, Full Professor of Immunology, Faculty of Science, Assiut University, Egypt.
7. **From January 2011 to February 2016**, Associate professor of Immunology at Zoology department, Faculty of Science, Assiut University, Egypt.
8. **From January 2011 to August 2013**, Associate professor of Immunology at King Saud University, Saudi Arabia.
9. **From 13/10/2008 to January 2011**, Assistant professor at Zoology department, College of Science, King Saud University, Saudi Arabia.
10. **From 26/ 06/ 2005 to 31/12/2010**, Assistant professor at Zoology department - Faculty of Science - Assiut University.
11. **From 25/01/2007 to 10/10/2008**, Postdoctoral fellowship (Assistant Professor) at Montreal University, Canada. This fellowship was funded by FRSQ, Montreal, Canada.
12. **From October 1996 to May 2005**, Demonstrator at Zoology Department-Faculty of Science- Assiut University-Egypt.

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. **2021 to August 2023**, [Principle Investigator \(PI\)](#) of a research project (number 37102) entitled: Molecular mechanism of cold plasma-mediated acceleration and improvement of wound healing in diabetic mouse model. Fund amount: 1,990,000 EGP, by STDF.
2. **2021 to September 2023**, [Consultant](#) of a research project (number 43274) entitled: Starfish coelomic fluids: A novel promising trigger of wound healing of the skin in both diabetic and burned BALB/c

mice models concomitant with hydrogel and supervised their wound closures using mask R-CNN software. Fund amount: 1,065,000 EGP, by STDF.

3. **2018 to 2020**, [PI](#) of a research project entitled: The molecular mechanism underlying camel whey protein-mediating growth arrest of multiple myeloma cancer cells. (50000 EGP), by Assiut University.
4. **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.
5. **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.
6. **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.
7. **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.
8. **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.
9. **2010 to 2012**, [PI](#) of the research project **NPAR3-(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.
10. **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.
11. **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.

AWARDS:

1. **2022**, AD Scientific Index: Number 1 in Egypt and number 2 in Africa in Immunology.
2. **2020**, One of the World's Top 2% Scientists by Stanford University.
3. **2019**, The Best Arabic Researcher (2018) from the Association of Arab Universities.
4. **2019**, Top reviewers in Pharmacology & Toxicology; and Medicine, from Publons, Web of Science.
5. **2018**, Top reviewers in Biology & Biochemistry; Molecular Biology & Genetics, from Publons, Web of Science.
6. **2017**, Top reviewers in Pharmacology & Toxicology; Pharmaceutics; Molecular Biology & Genetics, from Publons, Web of Science.
7. **2017**, Award from Faculty of Science- Assiut University for the higher Impact Factor paper.
8. **2012**, The State Encouragement Prize in Basic Science from the Academy of Scientific Research and Technology, Egypt.
9. **March 2009**, Award from Assiut University for the scientific distinction.
10. **December 2007**, award for the best oral presentation of Post-doctors in the 10th Annual Conference of CHUM, Montreal University, Canada.

PATENT:

2021, I have one patent entitled: Bee Gomogenat (Bee milk) improves diabetes-associated complications. Patent number 42297, Academy of Scientific Research and Technology, Egypt.

EDITORIAL MEMBER IN PEER-REVIEWED INTERNATIONAL JOURNALS:

1. Editor in Frontiers in Immunology (**IF =7.56 – Q1**)
<https://loop.frontiersin.org/people/1124076/editorial>
2. Associate Editor in Scientific Reports (**IF =4.38 – Q1**)
<https://www.nature.com/srep/about/editorial-board#immunology>
3. Associate Editor in BMC Complementary and Alternative Medicine (**IF =3.65 – Q1**)
<https://bmccomplementalternmed.biomedcentral.com/about/editorial-board>
4. Associate Editor in BMC Complementary Medicine and Therapies.
<https://bmccomplementmedtherapies.biomedcentral.com/about/editorial-board>
5. Associate Editor in The Journal of Basic and Applied Zoology
<https://basicandappliedzoology.springeropen.com/about/editorial-board>

EXPERIENCE AS A REVIEWER IN PEER-REVIEWED INTERNATIONAL JOURNALS:

I reviewed more than 940 papers in international peer-reviewed journals indexed in Scopus and Web of Science for the following journal: 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.

To access for the reviewed papers in international peer-reviewed journals with impact factor use this link:

<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.
- **Faculty of Computers and Information, Assiut University: From 2017 to 2021**, I teach two courses: Fundamental Genetics and Introduction to Biology to undergraduate students.
- **Faculty of Medicine, Ataturk University, Turkey: From 02/05/2013 to 16/05/2013**, I taught Immunology, Haematology and Physiology courses to undergraduate students.
- **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:

- **For Master and PhD. Students at Faculty of Science, Assiut University: From 14/9/2013 to present**, I teach the following courses: Basic 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.
- **For student in Professional Diploma in Biochemistry at Faculty of Science, Assiut University:** I teach the following courses: Biological fluids and Enzymology.

SUPERVISORY EXPERIENCE ON POSTGRADUATE STUDENTS:

Currently I'm supervising more than 12 MSc. & PhD. students at Faculty of Science, different Universities:

- 1. From 10/2005 to present**, I supervised four MSc students at Faculty of Science, Assiut University, Egypt.
 - **Title: Therapeutic potential of fig latex against pathogenic bacteria that mediate impairment in the healing process of diabetic wounds.** Student name: Mohamed Salah Abd-Elmoneim. Published at Assiut University, Egypt, Jun 2022.
 - **Title: Effects of camel whey protein on human leukemia cells and hematopoiesis disorder in gamma-irradiated rat model.** Student name: Martina Barsoum. Published at Assiut University, Egypt, 2019.
 - **Title: Effects of camel whey protein supplementation on some immune organs' integrity in heat-stressed male mice.** Student name: Nancy K. Ramadan. Published at Assiut University, Egypt, 2019.
 - **Title: Immuno-modulatory effects of camel whey protein in streptozotocin-induced type I diabetic albino mice.** Student name: Leila H. Sayed. Published at Assiut University, Egypt, 2017.
 - **Title: Effect of Type I Interferon (Interferon alpha and beta) on the protection of B Lymphocytes from Apoptosis.** Student name: Hanan Waly. Published at Assiut University, Egypt, August 2009.
- 2. From 7/2011 to present**, I supervised one PhD. Student in Immunology & Parasitology, Zoology department, Faculty of Science, Cairo University, Egypt.
 - **Title: Immunomodulatory and wound healing effects of gomogenat (Bee milk) in a streptozotocin-induced type I diabetic mouse model.** Student name: Leila Sayed Hassan. Published at Assiut University, Egypt, July 2022.
 - **Title: Immunological Modulation of Auto-Immune Systemic Lupus Erythematosus (SLE) in Female BWF1 Mice Infected with Malaria.** Student name: Mostafa Abdel-Maksoud. Published at Cairo University, Egypt, 2015.
- 3. 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.** Student name: Saeed Al-Zahrani. Published at King Saud University, Saudi Arabia, 2011.

4. **From 01/2007 to 9/2008**, supervise one MSc and one PhD Students in Immunology, University of Montreal, Canada.

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 International Journals indexed in [Web of Science](#) (with Impact Factor and Q):

➤ Currently Submitted Articles

1. [Gamal Badr](#), Mariana S. Alfons, Ahmed S. A. Harabawy, Mohamed B. Al-salahy, Ahmed Th. A. Ibrahim. Propolis protects the lymphoid organs from heat stress-mediated oxidative stress and injury via dampening iNOS and HSP-70 signaling in Catfish. Submitted to Scientific Reports. (**IF= 3.9 Q1**). August **2024**.
2. Gehad Mohamed, Noha A. Afifi, Leila H. Sayed, [Gamal Badr](#). Bee gomogenat ameliorates the adverse effects of heat stress via regulating pyroptotic mediators NLRP3, Caspase-1 and IL-1 β , and tight junction proteins Claudin-1 and Occludin in mice model. Submitted to Scientific Reports Sci Rep. (**IF= 3.9 Q1**). November **2024**.

► Published Articles.

1. Abbas H, [Badr G](#), Ramadan G, Abd-Elhalem SS. Camel Whey Protein and Baicalein Suppressed Mast Cell Degranulation in Mice Models of IgE- and Non-IgE-Mediated Anaphylaxes: Potential Mechanisms on Downstream Cell Signaling of Mast Cells. *Immunol Invest*. 2024 Nov;53(8):1330-1347. (IF= 2.9 Q3). 2024.
2. [Badr G](#), Fayez M. El-Hossary, Fakhr El-din M. Lasheen, Niemat Z. Negm, Mohamed Khalaf, Mohamed Salah, Leila H. Sayed, Mostafa A. Abdel-Maksoud and Ahmed Elminshawy. Cold atmospheric plasma induces the curing mechanism of diabetic wounds by regulating the oxidative stress mediators iNOS and NO, the pyroptotic mediators NLRP-3, Caspase-1 and IL-1 β and the angiogenesis mediators VEGF and Ang-1. *Biomed Pharmacother*. 2023 Dec 31;169:115934. (IF= 7.5 Q1).
3. Leila H Sayed, [Badr G](#), Hossam El-Din M. Omar, Sary Khaleel Abd Elghaffar, and Aml Sayed. Bee gomogenat enhances the healing process of diabetic wounds by orchestrating the connexin-pannexin-calmodulin gap junction proteins in streptozotocin-induced diabetic mice. *Sci Rep*. 2023 Nov 15;13(1):19961. (IF= 3.9 Q1). 2023.
4. [Badr G](#), F El-Hossary, M Salah, M Khalaf, EA Sayed, A Elminshawy. The therapeutic potential of cold atmospheric plasma against pathogenic bacteria inhabiting diabetic wounds. *Bulletin of Pharmaceutical Sciences*. Assiut, 2023/7/24. (IF= 0.002 Q4). July 2023.
5. Mohamed Salah, [Badr G](#), Helal F Hetta, Walaa A Khalifa, Ahmed A. Shoreit. Fig latex inhibits the growth of pathogenic bacteria invading human diabetic wounds and accelerates wound closure in diabetic mice. *Sci Rep*. 2022 Dec 17;12(1):21852. (IF= 3.9 Q1). December 2022.
6. [Badr G](#), Leila H Sayed, Hossam El-Din M. Omar, Sary Khaleel Abd Elghaffar, and Medhat M. Menshawy. Bee gomogenat rescues the lymphoid organs from degeneration by regulating the crosstalk between apoptosis and autophagy in streptozotocin-induced diabetic mice. *Environ Sci Pollut Res Int*. 2022 Sep;29(45):68990-69007. 2022 May 13. (IF= 5.8 Q1). May 2022.
7. Ayşegül Varol, Serap Sezen, Dilhan Evcimen, Atefeh Zarepour, Gönül Ulus, Ali Zarrabi, [Badr G](#), Sevgi Durna Daştan, Asya Gülistan Orbayoğlu, Zeliha Selamoğlu, Mehmet Varol, Cellular targets and molecular activity mechanisms of bee venom in cancer: recent trends and developments. *Toxin Reviews*, 2022, 1-14. (IF= 3.3 Q2). January 2022. [Review Article](#)
8. Haidi Karam-Allah Ramadan, [Badr G](#), Nancy Karam-Allah Ramadan and Aml Sayed. Enhanced immune responses, PI3K/AKT and JAK/STAT signaling pathways following hepatitis C virus eradication by direct-acting antiviral therapy among Egyptian patients: a case control study. *Pathogens and disease*, 2021, 79(3). (IF= 2.7 Q3). February 2021.
9. [Badr G](#), Eman Abdo Sayed, Badr M. Badr, Wafaa H. Abdel-Ghaffar, Leila H. Sayed and Aml Sayed. The molecular mechanisms underlie the anti-tumor activities exerted by camel whey protein against multiple myeloma cancer cells. *Saudi J Biol Sci*. Volume 28, Issue 4, April 2021, Pages 2374-2380 (IF= 4.4 Q1). April 2021.
10. Eman Abdo Sayed, [Badr G](#), Khadiga Abdel-Hameed Hassan, Hanan Waly and Betul Ozdemir, Induction of liver fibrosis by CCl4 mediates pathological alterations in the spleen and lymph nodes: The potential therapeutic role of propolis. *Saudi J Biol Sci*. 2021 Feb;28(2):1272-1282. (IF= 4.4 Q1). November 2020.
11. Hussein El-Kashef, [Badr G](#), Nagwa Abo El-Maali, Douaa Sayed, Patricia Melnyk, Nicolas Lebegue and Rofida Abd El-Khalek. Synthesis of a novel series of (Z)-3,5-disubstituted thiazolidine-2,4-diones as promising anti-breast cancer agents. *Bioorg Chem*. 2020 March; 96:103569. (IF= 4.5 Q1). January 2020.
12. [Badr G](#), 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. *Environ Sci Pollut Res Int*. 2020 Mar;27(8):8684-8695. doi: 10.1007/s11356-019-07572-y. (IF= 5.8 Q1). January 2020.

13. Nagwa Abo El-Maali, [Badr G](#), 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. *Biochem Cell Biol*. 2019 Oct;97(5):513-525. (IF= 2.4 Q3). October 2019.
14. [Badr G](#), Eman Abdo Sayed, Hanan Waly, Khadiga Abdel-Hameed Hassan, Mohamed H. Mahmoud and Zeliha Selamoglu. The therapeutic mechanisms of propolis against CCl₄-mediated liver injury by mediating apoptosis of activated hepatic stellate cells and improving the hepatic architecture through PI3K/AKT/mTOR, TGF- β /Smad2, Bcl2/BAX/P53 and iNOS signaling pathways. *Cell Physiol Biochem*. 2019;53(2):301-322. (IF= 5.5 Q1). June 2019.
15. [Badr G](#), 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. *Nutr Cancer*. 2019;71(6):1040-1054. (IF= 2 Q3). March 2019.
16. Maha Daghestani; Zeinab Hassan; [Badr G](#); 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= 3.3 Q2). March 2019.
17. Mostafa A. Abdel-Maksoud, Fathy A. Abdel-Ghaffar, Azza El-Amir, [Badr G](#), 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= 4.4 Q1). December 2018.
18. Wael N. Hozzein, [Badr G](#), 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= 3.2 Q3).
19. Nancy K. Ramadan, [Badr G](#), 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= 2.1 Q3). September 2018.
20. [Badr G](#), 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= 2.3 Q3). Jun 2018.
21. [Badr G](#), 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- θ signaling pathways in human breast carcinoma cells. *Bioorg Chem*. 2018 Mar 7;78:46-57. (IF= 4.5 Q1). March 2018.
22. Nashwa El Shinnawy, Sahar Abd Elhalem, Nawal Haggag and [Badr G](#). Ameliorative role of camel whey protein and rosuvastatin on induced dyslipidemia in mice. *Food Funct*. 2018 Feb 21;9(2):1038-1047. (IF= 5.1 Q1). February 2018.
23. Salem ML, E El Naggar R, A El Naggar S, A Mobasher M, H Mahmoud M, [Badr G](#). Higher Activities of Hepatic Versus Splenic CD8⁺ T Cells in Responses to Adoptive T Cell Therapy and Vaccination of B6 Mice with MHC Class-I Binding Antigen. *Iran J Allergy Asthma Immunol*. 2017 Dec;16(6):537-553. (IF= 1.2 Q4). November 2017.
24. [Badr G](#), 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- κ B, 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= 2.4 Q3). November 2017.
25. [Badr G](#), 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

26. Olivier Garraud, Wael N. Hozzein and [Badr G.](#) Wound healing: Time to look for intelligent ‘natural’—immunological—approaches? BMC Immunol. **2017** Jun 21;18(Suppl 1):23. (IF= 2.9 Q3). [Review Article](#)
27. Sayed LH, [Badr G.](#), 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= 7.5 Q1).
28. Mostafa A. Abdel-Maksoud, Fathy A. Abdel-Ghaffar, Azza El-Amir, [Badr G.](#), 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= 0.5 Q4).
29. [Badr G.](#), 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 κ B- α in type I diabetic mice. Cell Physiol Biochem **2017**;41:41-54. (IF= 5.5 Q1).
30. Ajmal MR, Chandel TI, Alam P, Zaidi N, Zaman M, Nusrat S, Khan MV, Siddiqi MK, Shahein YE, Mahmoud MH, [Badr G.](#), 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= 7.7 Q1).
31. Ajmal MR, Zaidi N, Alam P, Nusrat S, Siddiqi MK, [Badr G.](#), 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= 2.7 Q3).
32. Ajmal MR, Nusrat S, Alam P, Zaidi N, Khan MV, Zaman M, Shahein YE, Mahmoud MH, [Badr G.](#), Khan RH. Interaction of anticancer drug clofarabine with human serum albumin and human α -1 acid glycoprotein. Spectroscopic and molecular docking approach. J Pharm Biomed Anal. **2017** Feb 20;135:106-115. (IF= 3.1 Q2).
33. Zahran AM, Elsayh KI, Saad K, Elloseily EM, Osman NS, Alblihed MA, [Badr G.](#), Mahmoud MH. Effects of Royal Jelly Supplementation on Regulatory T Cells in Children with SLE. Food & Nutr Res. **2016** Nov 24;60:32963. (IF= 3.5 Q2).
34. Mahmoud MH, [Badr G.](#), 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= 3 Q2).
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C. Published Articles in Peer-Reviewed Journals (with no Impact Factor):

1. MS Alfons, [Gamal Badr](#), A Harabawy, M Al-salahy, A Ibrahim. Amelioration effect of propolis supplementation on haematological indices and histopathological alterations of *Clarias gariepinus* during heat stress. *Assiut University Journal of Multidisciplinary Scientific Research* **2022**/8/1, Vol 1. (1), 128-141.

2. LH Sayed, HED Mohamed, S Khaleel Abd Elghaffar, [Gamal Badr](#). Therapeutic potential of Bee gomogenat against testicular damage in a streptozotocin-induced type I diabetic mouse model. Assiut University Journal of Multidisciplinary Scientific Research **2022**/8/1Vol 1. (1), 17-37.
3. M Salah, [Gamal Badr](#), H Hetta, WA Khalifa, AA Shoreit. Isolation and identification of pathogenic biofilm-forming bacteria invading diabetic wounds. Assiut University Journal of Multidisciplinary Scientific Research **2022**/5/1, Vol 51. (2), 163-178.
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12. 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**.
13. 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**.
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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. 6th 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⁺ and CD8⁺ memory T cells. Cytokine, 43,(3), Pages 306-307.
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CONFERENCES:

A. Oral Presentations:

1. **June, 23-24, 2022**, *Invited speaker for Oral presentation* entitled “Therapeutic potential of Bee gomogenat for the healing process of diabetic wounds. The fourth International Turkic World Congress on Science and Engineering. Nigde, Turkey.
2. **June, 14-16, 2023**, *A member of Scientific Committee* of the Second International Congress on Bee Science, held online, Turkey.
3. **November, 16-19, 2021**, *Invited speaker for Oral presentation* entitled “How to build your Scientific career. The fourth International Scientific Conference of the Faculty of Science, Ain Shams University “Shaping the Future – SF 2021” Hurghada.
4. **November, 4-5, 2020**, *Invited speaker for Oral presentation* entitled “Induction of Liver Fibrosis by CCl4 Mediates Pathological Alterations in the Spleen and Lymph Nodes: The Potential Therapeutic Effect of Propolis via Inhibiting the Expression of TGF- β /Smad2, Bcl2/BAX/, Nrf2, eNOS and COX-2 and the Phosphorylation of AKT/mTOR, P38 and ASK1. The 12th Assiut University International Pharmaceutical Sciences Conference. Faculty of Pharmacy- Assiut University.
5. **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 6th International Conference for young Researchers in Basic and Applied Sciences. Hurghada.
6. **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.
7. **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- θ 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.
8. **October 2017**, *Participated in Heading the Scientific Sessions* for The 13th Scientific Conference of the Zoological Society, 14-15 October 2017, Faculty of Science, Beni-Suef University, Egypt.
9. **October 2017**, *Invited speaker* for oral presentation presented at The 9th International Scientific Conference of South Egypt Cancer Institute, 04-05 December 2017, Assiut University, Egypt.
10. **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 39th Annual International Conference of the Egyptian Society of Histology & Cytology, 17-18 December 2015, Assiut University, Egypt.

11. **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.
12. **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.
13. **July 2012**, oral presentation entitled “HLA-G promotes tumor expansion of multiple myeloma cells by increasing CXCL12-mediated chemotaxis” 6th International Conference on HLA-G **Location:** Paris, FRANCE **Date:** JUL 09-11, 2012.
14. **April 2008**, Oral presentation entitled “Early Interferon Therapy for HCV Rescues Polyfunctional virus-specific CD8⁺ Long-lived Memory T Cells” The 21st Canadian Society for Immunology Conference, Mont Tremblant Hotel, Canada. Website: <http://www.csi-sci.ca/UserFiles/workshoppresentersFINAL.pdf>
15. **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.

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. 14th 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 2nd 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
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 Samsum 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 15th 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 1st level to 9th 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.

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
2. **International collaboration with Professor Olivier Garraud**, Institute National de la Transfusion Sanguine, Paris, France. e-mail: ogarraud@ints.fr
3. **International collaboration with Professor Rizwan Khan**, Interdisciplinary Biotechnology Unit. Aligarh Muslim University, Aligarh, India. e-mail: 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 :

1. Dr. Yolande Richard, Professor of Immunology

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