





I ♥ Immunology



**Name: Gamal Gamal Abdelraouf BADR**

**Current Positions:**

- Vice-President for Graduate Studies & Research- Assiut University.
- Coordinator of the International Relations and Arab Universities Affairs Office - Assiut University.
- Full Professor of Immunology, Faculty of Science- Assiut University.



**Nationality:** Egyptian

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

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

**Marital Status:** Married

**RESEARCH INFORMATION:**

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

**Scopus H-index = 41**      **Scopus total documents = 112**

**Google Scholar H-index = 46**

**ORCID:** <http://orcid.org/0000-0002-6157-7319>

**ORCID QR code:**



**A Field-Weighted Citation Impact (FWCI)** value of 1.00 indicates that the set of publications has received citations at the expected global average for similar publications. Values above 1.00 indicate an above-average impact worldwide, while values below 1.00 suggest a below-average impact.

**My FWCI value is 1.12**

**Documents in top citation percentiles** are publications that rank among the most-cited papers in their specific field, year, and document type, indicating high research impact, often measured by platforms like Scopus (InCites) and Web of Science (InCites/SciVal).

**The percentage of my Documents in top citation percentiles is 54.2%**

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**Official website:** <https://life.aun.edu.eg/science/gamal-gamal-abdelraouf-badr>



### **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 honors.

### **EMPLOYMENT HISTORY:**

- 1. From April 23, 2025 to present**, Vice-President for Graduate Studies & Research, Assiut University.
- 2. From February 07, 2024 to April 22, 2025**, Acting Vice-President for Graduate Studies & Research, Assiut University.
- 3. From March 12, 2023 to November 23, 2025**, Acting Dean for Institute of Material Science and Nanotechnology, Assiut University.
- 4. From January 18, 2022 to present:** Member of the Local Advisory Council for Evaluating the Content of Journals at Association of Arab Universities.
- 5. From September 2021 to July 2024**, Member of the Basic Sciences Research Council, Academy of the Scientific Research & Technology, Egypt.
- 6. From September 03, 2020 to present**, Coordinator of the International Relation Office, Assiut University, Egypt.
- 7. From February 06, 2020 to February 06, 2024**, Vice-Dean for Graduate Studies and Research, Faculty of Science- Assiut University, Egypt.
- 8. From February 28, 2016 to present**, Full Professor of Immunology, Faculty of Science, Assiut University, Egypt.
- 9. From January 2011 to February 2016**, Associate professor of Immunology at Zoology department, Faculty of Science, Assiut University, Egypt.
- 10. From January 2011 to August 2013**, Associate professor of Immunology at King Saud University, Saudi Arabia.
- 11. From 13 October 2008 to January 2011**, Assistant professor at Zoology department, College of Science, King Saud University, Saudi Arabia.
- 12. From 26 June 2005 to 31 December 2010**, Assistant professor at Zoology department - Faculty of Science - Assiut University.
- 13. From 25 January 2007 to 10 October 2008**, Postdoctoral fellowship (Assistant Professor) at Montreal University, Canada. This fellowship was funded by FRSQ, Montreal, Canada.



**14. From October 1996 to May 2005,** Demonstrator at Zoology Department-Faculty of Science-Assiut University-Egypt.

#### **INVITATION To GIVE LECTURES:**

- 1. November 12, 2025,** *invited for a lecture* entitled “How to build your scientific career? International publication and research integrity: its importance for researchers and for scientific institutions. Helwan University.
- 2. September 4, 2025,** *invited for a lecture* entitled “How to build your scientific career? International publication and research integrity: its importance for researchers and for scientific institutions. Beni Suef University.
- 3. May 20, 2023,** *invited for a lecture* entitled “How to build your scientific career? International publication and its importance for researchers and for scientific institutions. Basic Sciences Council - Academy of Scientific Research & Technology.
- 4. April 26, 2020,** *invited for a lecture* entitled “How to build your scientific career? International publication and its importance for researchers and for scientific institutions. Sheikh Mohammed bin Khalid Al Nahyan Cultural Center.

#### **TRAINING COURSES:**

- 1. January 2026,** attended a Professional training session (16 hours) entitled: Advanced in the field of governance and anti-corruption, National Anti-Corruption Academy, Egypt.
- 2. December 2025,** attended a Professional training session (3 hours) entitled: Digital transformation and sustainable development, Assiut University - Egypt.
- 3. December 2025,** attended a Professional training session (3 hours) entitled: Strategic Planning, Assiut University - Egypt.
- 4. December 2014,** attended a Professional training session (15 hours) entitled: University Management, Assiut University, Egypt.
- 5. December 2014,** attended a Professional training session (15 hours) entitled: International Publication of Research, Assiut University, Egypt.
- 6. December 2014,** attended a Professional training session (15 hours) entitled: Research Team Management, Assiut University, Egypt.
- 7. November 2014,** attended a Professional training session (15 hours) entitled: Legal and Financial Aspects in University Environment, Assiut University, Egypt.
- 8. November 2014,** attended a Professional training session (15 hours) entitled: Credit Hour System, Assiut University, Egypt.
- 9. November 2014,** attended a Professional training session (15 hours) entitled: How to compete for a Research Fund, Assiut University, Egypt.
- 10. 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.



## English CV – Prof. Dr. Gamal Gamal Abdelraouf BADR - 2026

- 11. November 2003**, Attended the 15<sup>th</sup> Annual course of Immunology at the Conference center of Annecy (French Society of Immunology), France.
- 12. 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.
- 13. January 2003**, Attended the Innate Immunology section within the extensive course of Immunology at Pasteur Institute, France.
- 14. November 2001**, Extensive courses entitled: The sensation to the prevention of professional risks in the research laboratories, Pitié Salpêtrière Hospital, Paris, France.
- 15. 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.

### **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 Immunology (**IF =3.65 – Q1**)  
<https://bmccomplementalrternmed.biomedcentral.com/about/editorial-board>
4. Associate Editor in The Journal of Basic and Applied Zoology  
<https://basicandappliedzoology.springeropen.com/about/editorial-board>

### **AWARDS:**

1. Number 1 in Egypt and number 2 in Africa in Immunology according to AD Scientific Index, **2023 and 2025**.
2. One of the World's Top 2% Scientists by Stanford University, **2020 and 2024**.
3. One of the best 1% Reviewers worldwide according to Publons - Web of Science, **2017, 2018 and 2019**.



## English CV – Prof. Dr. Gamal Gamal Abdelraouf BADR - 2026

4. **2019**, The Best Arabic Researcher (2018) from Association of Arab Universities.
5. **2017**, Award from Faculty of Science- Assiut University for the higher Impact Factor paper.
6. **2012**, The State Encouragement Prize in Basic Science from the Academy of Scientific Research and Technology, Egypt.
7. **March 2009**, Award from Assiut University for the scientific distinction.
8. **December 2007**, award for the best oral presentation of post-doctors in the 10<sup>th</sup> Annual Conference of CHUM, Montreal University, Canada.



### Gamal Badr ✓

Top Peer Reviewer

(Badr, Gamal) | Assiut University

#### Identifiers

Web of Science ResearcherID: I-4891-2014

<https://orcid.org/0000-0002-6157-7319>

#### Published names



Badr, Gamal

Badr, G.

Badr, G

#### Organizations



Assiut University

King Saud University

Aligarh Muslim University

Universite de Montreal

Universite Paris Saclay

#### Subject Categories

Biochemistry & Molecular Biology; Cell Biology; Immunology; Nutrition & Dietetics; Pharmacology & Pharmacy

#### Awards

Top reviewers in Clinical Medicine - September 2019

Top reviewers in Pharmacology and Toxicology - September 2019

Top reviewers in Cross-Field - September 2019

Top reviewers in Molecular Biology and Genetics - September 2018

Top reviewers in Biology and Biochemistry - September 2018

Top reviewers for Assiut University (Pharmacology, Toxicology and Pharmaceutics) - September 2017

Top reviewers for Pharmacology, Toxicology and Pharmaceutics - September 2017

Top reviewers for Biochemistry, Genetics and Molecular Biology - September 2017

Top reviewers for Medicine - September 2017 [Show less](#) ▾



### **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) at Ain Shams University 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.
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 Un-denatured 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.



### 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.

### EXPERIENCE AS A REVIEWER IN PEER-REVIEWED INTERNATIONAL JOURNALS:

I reviewed more than **1050** papers in **260** 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://orcid.org/my-orcid?orcid=0000-0002-6157-7319>

### TEACHING EXPERIENCES:

#### A. For Undergraduate Students:

- **Faculty of Science, Assiut University: From 14/9/2013 to present,** I teach the following courses: Immunology, Hematology, 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, Hematology 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 Signaling, Molecular Hematology, 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:**

1. From 10/2005 to present, I supervised several MSc students as the following:

- **Title:** The potential therapeutic impact of bee gomogenat against diabetic nephropathy in streptozotocin-induced diabetic mouse model. Student name: Amira Badry Ali. **Assiut University**, Egypt.
- **Title:** Determining the immune-pathological mechanisms & recurrent pregnancy loss (RPL) in patients with recurrent spontaneous abortion. Student name: Rehab Ashraf Mohamed. **Assiut University**, Egypt.
- **Title:** Immunomodulatory efficacy of bee gomogenat (Bee milk) against heat stress-induced inflammation, Oxidative stress and apoptosis in male mice. Student name: Gehad Mohamed Abdel-Aleim. **Assiut University**, Egypt.
- **Title:** Potential Prophylactic Effects of Camel Whey Protein and Baicalein "a Plant Flavone against Type I Hypersensitivity in Male Albino Mice. Student name: Hend Mahmoud Mohamed. **Ain Shams 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:** Bioaccumulation and Biological effects in eastern desert in AbuKhruc area exposed to natural radioactivity. Student name: Ghada Abdel Radi. Published at **Assiut University**, Egypt, 2020.
- **Title:** Studying the molecular mechanisms underlying the immune-protective effect of propolis against CCI4-induced liver fibrosis in male albino mice. Student name: Eman Abdo.
- **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:** Preparation & characterization of silica nanoparticles loaded antioxidants to fight breast cancer. Student name: Randa. Abd ElMohaymin. 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 several PhD. Students as the following:**

- **Title:** The Efficacy of Echinodermata Coelomic Fluid on Wound Healing in Diabetic Mice Model. Student name: Hasnaa Mohamed Gomaa. Ain Shams University, Egypt.
- **Title:** The neuro-immunostimulatory role of kinetin against MPTP induced Parkinson's disease in mice model. Student name: Eman Abdo Sayed Assiut 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, 2023.
- **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.
- **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.

**RESEARCH ACTIVITIES AND INTERESTS:**

1. Utilization of nanoparticles to deliver natural anticancer products to fight cancer cells.
2. Immunobiology and cell signaling 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:

#### **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.

#### **A. Published Articles in International peer-reviewed Journals indexed in [Web of Science](#) (with Impact Factor and Q):**

1. El-Hossary, F.M., [Gamal Badr](#), Lashein, F.E.-D.M., Khalaf, M., Gebril, S.M. Improving the Healing Rate of Diabetic Wounds by Applying Dielectric Barrier Discharge: An Applied Study in Male Mice. *IEEE Transactions on Radiation and Plasma Medical Sciences* January (2025). (IF= 3.5 Q1).
2. Nawal Zakaria Haggag, Nashwa Ahmed El-Shinnawy, [Gamal Badr](#), Hany N. Yousef and Sahar Sobhy Abd-Elhalem. IL-33 triggers lung autophagy in anaphylaxis mice models. *Journal of Basic and Applied Zoology* (2024) 85:55. (IF= 1.1 Q3).
3. Abbas H, [Gamal Badr](#), 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= 2.4 Q3).
4. [Gamal Badr](#), Fayez M. El-Hossary, Fakhr El-din M. Lasheen, Nemat 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 $\beta$  and the angiogenesis mediators VEGF and Ang-1. *Biomed Pharmacother.* (2023) Dec 31;169:115934. (IF= 7.5 Q1).
5. Leila H Sayed, [Gamal Badr](#), 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).
6. [Gamal Badr](#), 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 University*, December (2023) 46(2):1285-1300 (IF= 0.002 Q4).



7. Mohamed Salah, [Gamal Badr](#), 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).
8. [Gamal Badr](#), 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. (IF= 5.8 Q1).
9. Ayşegül Varol, Serap Sezen, Dilhan Evcimen, Atefeh Zarepour, Gönül Ulus, Ali Zarrabi, [Gamal Badr](#), 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) Pages 1382-1395. (IF= 2.4 Q3). [Review Article](#)
10. Haidi Karam-Allah Ramadan, [Gamal Badr](#), 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) Mar 20;79(3): ftab008. (IF= 2.7 Q3).
11. [Gamal Badr](#), 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).
12. Eman Abdo Sayed, [Gamal Badr](#), Khadiga Abdel-Hameed Hassan, Hanan Waly and Betul Ozdemir, Induction of liver fibrosis by CCl<sub>4</sub> 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).
13. Hussein El-Kashef, [Gamal Badr](#), 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= 4.7 Q1).
14. [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. *Environ Sci Pollut Res Int.* (2020) Mar;27(8):8684-8695. doi: 10.1007/s11356-019-07572-y. (IF= 5.8 Q1).
15. 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. *Biochem Cell Biol.* (2019) Oct;97(5):513-525. (IF= 2.3 Q3).
16. [Gamal Badr](#), Eman Abdo Sayed, Hanan Waly, Khadiga Abdel-Hameed Hassan, Mohamed H. Mahmoud and Zeliha Selamoglu. The therapeutic mechanisms of propolis against CCl<sub>4</sub>-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) July;53(2):301-322. (IF= 5.5 Q1).
17. [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. *Nutr Cancer.* 2019;71(6):1040-1054. (IF= 2.4 Q3).
  18. 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=2.4 Q3). March 2019.
  19. 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= 4.4 Q1). December 2018.
  20. 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= 3.2 Q3).
  21. 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= 2.1 Q3).
  22. [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= 2.3 Q3).
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#### **B. 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.
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8. 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.
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11. 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**.
12. 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**.
13. Mohamed Mohany, Badr Mohamed Badr, Mohamed Hassan Mahmoud, Olivier Garraud and [Gamal Badr](#). Undenatured 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**.
14. [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**.
15. 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**.
16. 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**.
17. [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.



### C. 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 signaling. 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**, [Gamal 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+ and CD8+ memory T cells. Cytokine, 43,(3), Pages 306-307.
5. **September 2003**, [Gamal Badr](#), 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).

### CONFERENCE:

#### 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-b/Smad2, Bcl2/BAX/, Nrf2, eNOS and COX-2 and the Phosphorylation of AKT/mTOR, P38 and ASK1. The 12<sup>th</sup> 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 6<sup>th</sup> 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-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.
8. **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.
9. **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.
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 39<sup>th</sup> 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” 6<sup>th</sup> 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<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>
15. **December 2007**, Oral presentation entitled “Early Interferon Therapy Rescues HCV-specific CD8<sup>+</sup> T cells and Selects for Bcl-2<sup>+</sup>, CD127<sup>+</sup> Long-lived Memory T Cells” 10<sup>th</sup> 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 signaling. 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 through 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.



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7. 14-16/03/2006, “Advanced techniques on protein and their applications: *Western blot, Immunoprecipitation and Pull-Down*” Molecular Biology Unit, Assiut University, Egypt.

### **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 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, Flow cytometry, Histology and Histochemistry.

### **COMPUTER SKILLS:**

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

### **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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