



Hazem M.M. Hassan

Cellular phone: 00966500056046

m_hassan@su.edu.sa

Professional summary:

- 23 years of experience within scientific research and teaching in the field of Biochemistry.
- Teaching many courses in the field of biochemistry as following: Biochemistry, organic chemistry, analytical chemistry, general and analytical chemistry, biophysical chemistry, carbohydrate chemistry, protein chemistry, nucleic acid chemistry, enzyme and hormone chemistry, molecular biology and abiotic stress chemistry, spectroscopy chemistry and computer applications in biochemistry
- Good experience in managing laboratories and laboratory equipments.
- Strong ability to demonstrate and train students.
- Good experience in writing papers, making presentation and statistical analysis
- Success based on analytical, planning, organization skills.

Experience: Research:

- Investigated several aspects such as carbohydrates, enzymes, proteins and natural compounds in biochemistry field.
- Analyzed the obtained data and published in several papers that presented in several meetings.



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- Used several techniques in all my researches to investigate the scientific hypothesis such as advanced biochemical, bacteriological, molecular biology, tissue culture and immunology techniques.
 - **Scientific writing:**
 - Writing thesis and scientific papers: Wrote master thesis, Ph.D thesis, helped other colleagues in writing their thesis and statistical analysis, and wrote several scientific papers.
 - **Organization of scientific events:**
 - Organizing the conference of role of biochemistry in environment and agriculture, 2002, February 2004 and May 2006.
 - Organizing and participating in training of protein analysis.
 - Organizing workshop on principles of molecular biology and nucleic acids.
 - Recruited and trained many students in laboratory work and scientific research.
 - Organizing and participating in training of lab safety and preparation of solutions.



Employment history:

- Professor of Biochemistry, Department of Clinical Laboratory Sciences, College of Applied Medical Sciences, Shaqra University, KSA. 2020-Till now.
- Professor of Biochemistry, Cairo University, Egypt. 2018- Till now.
- Associate Professor of Biochemistry, Cairo University, Egypt. 2013-2018.
- Assistant Professor of Biochemistry, Cairo University, Egypt. 2008-2013.
- Lecturer of Biochemistry, Cairo University, Egypt. 2004- 2008.
- Demonstrator of Biochemistry, Cairo University, Egypt. 1999- 2004.

Education:

- **Ph.D. of Biochemistry**, Cairo University, Cairo, Egypt, 2008.
- **M.Sc. of Biochemistry**, Cairo University, Cairo, Egypt, 2004.
- **B.Sc. of Biochemistry**, Cairo University, Cairo, Egypt, 1999.

Skills:

- **Scientific and research skills:**
 - Basic and advanced techniques of biochemistry.
 - Basic techniques of bacteriology.
 - Basic techniques of molecular biology (ie. DNA & RNA manipulation, Polymerase chain reaction (PCR), Reverse transcription PCR (RT-PCR)).



- Basic techniques of serology and immunology (ie. Production of monoclonal & polyclonal antibodies, enzyme-linked immuno-sorbent assay (ELISA) and Western blotting).
 - **Workshop and training courses**
 1. Attended the workshop in Application of ELISA Techniques in Disease Diagnosis, Hormonal Assay and Toxin Determination, Biotechnology Center, Faculty of Veterinary Medicine, Cairo University.
 2. Attended a workshop on Assay DNA Comet and its most important applications, Department of Biochemistry, Faculty of Agriculture, Cairo University.
 3. Attended a workshop titled Enhancing Student Learning through Curriculum Development and Effective Teaching Workshop (Dr. Kirby Barrick, Professor and Dean of the Faculty of Agriculture, University of Florida, USA), Faculty of Agriculture, Cairo University.
 4. Attended course of University Teacher Preparation at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2004.
 5. Attended course of Thinking Skills at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2005.
 6. Attended course of Professional ethics at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2006.



7. Attended course of Use of Technology in Teaching at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2006.
8. Attended course of Scientific Research Styles at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2006.
9. Attended course of Quality Standards in the Teaching Process at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2008.
10. Attended course of Examination and Student Assessment Systems at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2008.
11. Attended course of Financial and Legal Aspects in Egyptian Universities at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2008.
12. Attended course of Scientific Publishing at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2009.
13. Attended course of Research Team Management at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2010.
14. Attended course of Scientific Research Ethics at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2010.



15. Attended course of Competitive Research Projects at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2010.
16. Attended course of Behaviors of the Profession in University Work at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2011.
17. Attended course of Strategic Planning at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2012.
18. Attended course of University Administration at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2014.
19. Attended course of Credit Hour Systems at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2015.
20. Attended course of Scientific Conferences Organization at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2015.
21. Attended course of Creative Thinking at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2016.
22. Attended course of Effective Teaching Skills at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2016.

23. Attended course of Crisis Management Skills at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2017.
24. Attended course of Communication Skills in Different Styles of Education at the Faculty and Leadership Development Center (FLDC), Cairo University, Egypt, 2017.
25. Attended course of E-learning Management System (Moodle), Shaqra University, KSA, 2020.
26. Attended course of Ovid Resources at the Saudi Digital Library (SDL), Shaqra University, KSA, 2020.
27. Attended course of Administration of Electronic Tests at the LMS platform, Shaqra University, KSA, 2020.

▪ **Computer skills:**

- Perfect working knowledge of MS Windows, MS Word, MS Excel, MS Access, and MS PowerPoint.
- Internet research skills.
- Attended a course in computer programs to study (Windows – Word - Internet) Institute of Statistics.
- Attended a course in computer program PowerPoint, Center for Economics Studies - Faculty of Agriculture – Cairo University.
- Attended a course in computer program Access, Center for Economics Studies - Faculty of Agriculture – Cairo University.
- Attended an intensive course in computer skills to study programs (MS Power Point - MS Excel - Statistic Programs) at the Computer Center, Cairo University.

▪ **Language skills:**

- Perfect command of spoken and written Arabic and English.
- Certificates available in all skills

List of publications:

1. Afify, A.S., Moustafa, A.A. and **Hassan, H.M.M.** (2004). Effect of some mucilages and gums against Ehrlich ascites carcinoma cells (in vitro study). 2nd Conference on the Role of Biochemistry in Environment and Agriculture, February 24-27, Giza, Egypt.
2. Afify, A.S., Moustafa, A.A. and **Hassan, H.M.M.** (2004). Influence of some mucilages and gums on some digestive enzyme activities. 2nd Conference on the Role of Biochemistry in Environment and Agriculture, February 24-27, Giza, Egypt.
3. Afify, A.S., Moustafa, A.A. and **Hassan, H.M.M.** (2004). Chemical composition of some plant mucilages and gums and their interactions with proteins. 2nd Conference on The Role of Biochemistry in Environment and Agriculture, February 24-27, Giza, Egypt.
4. **Hassan, H.M.M.** (2004). Biochemical studies on some bioactive carbohydrates. M.Sc. thesis, Cairo University, Giza, Egypt.
5. **Hassan, H.M.M.**, Ahmed, O.K., El-Shemy, H.A. and Afify, A.S. (2006). Date pollen extracts as plant growth substances for banana tissue culture. 3rd Conference on The Role of Biochemistry in Environment and Agriculture, May 3-4, Giza, Egypt.
6. **Hassan, H.M.M.** (2008). Biochemical characterization of palm pollen extracts as a biostimulator in different systems. Ph.D. thesis, Cairo University, Giza, Egypt.
7. **Hassan, H.M.M.**, Ahmed, O.K., El-Shemy, H.A. and Afify, A.S. (2008). Palm pollen extracts as plant growth substances for banana tissue culture. World Journal of Agricultural Science, 4(14): 514-520.

8. Kashef, R.K.H., **Hassan, H.M.M.**, Afify, A.S., Ghabbour, S.I. and Saleh, N.T. (2008). Effect of soybean galactomannan on the activities of α -amylase, trypsin, lipase and starch digestion. Journal of Applied Sciences Research, 4(12): 1893-1897.
9. **Hassan, H.M.M.**, Kashef, R.K.H., Afify, A.S., Ghabbour, S.I. and Saleh, N.T. (2009). Biological activities of soybean galactomannan. Academic Journal of Cancer research, 2(2): 78-84.
10. **Hassan, H.M.M.** (2009). Inhibitory activities of some mucilages and gums against certain intestinal disaccharidases. Australian Journal of Basic and Applied Sciences, 3(3): 2741-2746. (Scopus)
11. **Hassan, H.M.M.** (2010). Studying the interaction between some plant polysaccharides and potato starch or amylose. Journal of Applied Sciences Research, 6(1): 89-96. (Scopus)
12. **Hassan, H.M.M.**, Afify, A.S., Basyiony, A.E. and Ahmed, G.T. (2010). Nutritional and functional properties of defatted wheat protein isolates. Australian Journal of Basic and Applied Sciences, 4(2): 348-358. (Scopus)
13. **Hassan, H.M.M.** and Hassan, N.M.M. (2010). In vitro antioxidant and free radical scavenging activities of red grape seed extracts. Global Journal of Biotechnology and Biochemistry, 5(2): 106-115.
14. **Hassan, H.M.M.** (2011). Chemical composition and nutritional value of palm pollen grains. Global Journal of Biotechnology and Biochemistry, 6(1): 1-7.
15. **Hassan, H.M.M.** (2011). Antioxidant and immunostimulating activities of yeast (*Saccharomyces cerevisiae*) autolysates. World Applied Science Journal, 15(8): 1110-1119. (Scopus)
16. **Hassan, H.M.M.** (2012). Hepatoprotective effect of red grape seed extracts against ethanol-induced cytotoxicity. Global Journal of Biotechnology and Biochemistry, 7(2): 30-37.

17. Shallan, M.A., **Hassan, H.M.M.**, Namich, A.A.M. and Ibrahim, A.A. (2012). Effect of sodium niroprusside, putrescine and glycine betaine on alleviation of drought stress in cotton plant. American-Eurasian Journal of Agricultural and Environmental Sciences, 12(9): 1252-1265.
18. **Hassan, H.M.M.** (2013). Protective Effects of Red Grape Seed Extracts on DNA, Brain and Erythrocytes against Oxidative Damage. Global Journal of Pharmacology 7(3): 241-248. (Scopus)
19. Gabr, G.A, Soliman G.A., Ganaie, M.A. and **Hassan H.M.M.** (2014). The potential protective activity of date palm (*Phoenix dactylifera*) pollen and Panax ginseng against cisplatin-induced testicular toxicity in rats. International Journal of Biology, Pharmacy and Allied Sciences, 3(5): 605-623.
20. **Hassan, H.M.M.** (2014). Inhibitory effects of red grape seed extracts on pancreatic α -amylase and lipase. Global Journal of Biotechnology and Biochemistry, 9(4): 130-136.
21. Ismail, S.A., Ali, R.F.M., **Hassan, H.M.M.** and Abd El-Rahman, D. (2015). Effect of exposure to electromagnetic fields (Emfs) on monoamine neurotransmitters of newborn rats. Biochemistry and Physiology, 4(2): 1-7.
22. **Hassan, H.M.M.** and Hassan, N.M.M. (2015). Assessment of the antioxidant and free radical scavenging activities of two different solvent extracts of potato peels. Global Journal of Biotechnology and Biochemistry, 10(3): 113-120.
23. Jacob, R.H., **Hassan H.M.M.** and Afify A.S. (2016). Evaluation of antioxidant and metal chelating activities of protein hydrolysates produced from leather waste by alkaline and enzymatic hydrolysis. Research Journal of Pharmaceutical, Biological and Chemical Sciences, 7(4): 910-919. (Scopus)
24. Shallan, M.A., **Hassan, H.M.M.**, Namich, A.A.M. and Ibrahim, A.A. (2016). Biochemical and physiological effects of TiO_2 and SiO_2

- nanoparticles on cotton plant under drought stress. Research Journal of Pharmaceutical, Biological and Chemical Sciences, 7(4): 1540-1551. (Scopus)
25. Afify, A.M.R and **Hassan, H.M.M.** (2016). Free radical scavenging activity of three different flowers-Hibiscus rosa-sinensis, Quisqualis indica and Senna surattensis. Asian Pacific Journal of Tropical Biomedicine, 6(9): 771-777. (Scopus)
26. **Hassan, H.M.M.** and Elshaghabee, F.M.F. (2016). Influence of cold storage on antimicrobial, antioxidant and proteolytic activities of three different probiotic fermented milks. Advances in Food Sciences, 38(2): 82-89.
27. Shallan, M.A., **Hassan, H.M.M.**, Namich, A.A.M. and Ibrahim, A.A. (2016). The influence of Lithovit fertilizer on the chemical constituents and yield characteristics of cotton plant under drought stress. International Journal of Chem Tech Research, 9(8): 1-11. (Scopus)
28. **Hassan, H.M.M.** (2017). Evaluation of protective activity of potato peel extracts on liver and brain against oxidative stress. Research Journal of Pharmaceutical, Biological and Chemical Sciences, 8(3): 685-693.
29. Kashef, R.K.H., Soliman, A.S., **Hassan, H.M.M.** and Abd-Elhak, N.A. (2018). Evaluation of total phenolic content and antioxidant activity of different solvent extracts of Egyptian purslane leaves. Current Science International, 7(4): 616-623.
30. Elsayed, T.R., Galil, D.F., Sedik, M.Z., **Hassan, H.M.M.** and Sadik, M.W. (2020). Antimicrobial and Anticancer Activities of Actinomycetes Isolated from Egyptian Soils. International Journal of Current Microbiology and Applied Sciences, 9(9): 1689-1700.
31. Gabr, G., **Hassan, H.**, El Kashef, R., Abd-Elhak, N. and Soliman, A. (2021). Nutritional composition and bioactive compounds characterization of *portulaca oleracea* l. leaves grown in Egypt. Fresenius Environmental Bulletin, 30(6): 6313-6318.

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32. Jacob, R., **Hassan H.**, Afify A. and Gabr, G. (2021). A novel synthesis chemical characterization and biological activities of metal-leather protein hydrolysate chelates. *Fresenius Environmental Bulletin*, 30(7): 6717-6727.
33. Gabr, G., **Hassan, H.**, El Kashef, R., Abd-Elhak, N. and Soliman, A. (2022). Cytotoxic, antimicrobial and brain protective effect of bioactive phenolic compounds produced from *Portulaca oleracea* L. *Fresenius Environmental Bulletin*, 31(1): 971-978.

References: Available upon request.