

C.V. Dr. Abuelgassim O. Abuelgassim

PERSONAL DATA

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ACADEMIC BACKGROUND

Ph.D. (1992): Biochemistry Department, Faculty of Science, Brunel, England
B.Sc. (1985): Biochemistry Department, Faculty of Science, King Abdulaziz University, Jeddah, Saudi Arabia.

POSITION HELD

2014 – Now: Associate professor, Dept. of Biochemistry College of Science, King Saud University, Riyadh, Saudi Arabia.

2005- 2014: Assistant professor, Dept. of Biochemistry College of Science, King Saud University, Riyadh, Saudi Arabia.

RESEARCH PROJECTS

1. Relation between serum levels of sialic acid and serum arginine in patients with dyslipidemia and diabetes mellitus. Research Center ,College of Science (50,000 SR) - accomplished.
2. Effect of flax seeds and date palm leaves extracts on serum concentrations of glucose and lipids in alloxan diabetic rats. Research Center, College of Science (50,000 SR) - accomplished.
3. The effect of pumpkin seeds and L-arginine supplementation on serum lipid concentrations in atherogenic rats. KACST (54,000) and Research Center, College of Science (10,000) - accomplished.
4. Treatment of hyperlipoproteinemia with low density lipoprotein antibodies in rats Research Center, College of Science (46,000) - accomplished.

5. Study of the hypoglycemic and hypolipidemic effects of ferulic acid extracts of date palm leaves in rat. KACST – NPST (1,859,000) - ongoing.
6. Study of Natural products and antibacterial properties of Palm Date Seeds. KACST (145,000) - accomplished.

DEPATMENTAL AND COLLEGE COMMITTEES

- Former coordinator of departmental committee of graduation projects and posters evaluation (BCH497).
- Coordinator of departmental committee of safety and laboratories.
- Former member of college committee of student academic affairs.
- Member of college committee of new proposed interdisciplinary programs.
- Coordinator of proposed Natural products interdisciplinary program.
- Former member of departmental higher studies committee.
- Former coordinator of departmental committee of BCH101course.
- Member of departmental committee of BCH101course.
- Former coordinator of departmental committee of student academic affairs.
- Former coordinator of departmental accreditation committee.
- Former member of departmental committee of community service.
- Former member of departmental committee of alumni.
- Former member of departmental committee of curriculum and courses.

List Publications

1. **AO Abuelgassim**, MA Eltayeb, FS Ataya. Palm date (*Phoenix dactylifera*) seeds: A rich source of antioxidant and antibacterial activities. (2020). Czech Journal of Food Sciences. 38 (3): 171-178.
2. **AO Abuelgassim**. Towards the Utilization of Date Palm (*Phoenix dactylifera*) Leaves as a Rich Source of Antioxidants. (2020). Journal of Food and Nutrition Research 8(11): 632-637.
3. AZ Al-Otaibi, **AO Abuelgassim**. The effect of Gum Arabic on cholesterol synthesis and serum lipids in Atherogenic rats (**submitted**).

4. BS Alshabib, **AO Abuelgassim**, D Fouad. Effect of ferulic acid on cholesterol synthesis, serum lipids, and hepatotoxicity in Atherogenic rats (**submitted**).
5. **AO Abuelgassim**. Identification and quantification of phenolic acids in date palm (*Phoenix dactylifera L.*) leaves (**In preparation**).
6. **AO Abuelgassim**. Separation and Identification of Phenolic Acids from Red Grape Seeds by HPLC. (**submitted**)
7. FS Ataya, D Fouad, H Huntoul, S Alqarni, **AO. Abuelgassim**. Cloning and Molecular Study of Aspergillus niger Uric Acid Oxidase in Escherichia coli. (**2019**) J Scientific & Industrial Res. (78):890-895.
8. Haddad El Rabey A, Fahad Almutairi M, Abdulbasit Al-Sieni I, Madeha Al-Seeni N, Mohammed Al-Duais A, Mohamed Sakran I , **Abuelgassim Abuelgassim O**. Salvadora persica leaf aqueous extract attenuates hyperglycemia and hyperlipidemia in alloxan induced diabetic male rats. (**2018**). Biomedical Research 29(11):2424-2434.
9. Haddad A. El Rabey, Eman S. Attia, Madeha N. Al- Seeni, Abdulbasit I. Al-Sieni, Ibrahim H. Ibrahim, Mohamed F. Meerasahib, Abdulkader M. Shaikh-Omer , and **Abuelgassim O. Abuelgassim**. The hypolipidemic and antioxidant activity of Christ's thorn (Ziziphus spina- Christi) leaves powder in hypercholesterolemic male rats. (2014) Life Sci. J 11(10):1010 -1021.
10. **Abuelgassim, A.O**. Antioxidant Potential of date palm leaves and Acacia nilotica fruit in comparison with other four common Arabian medicinal plants. (2013) Life Sci. J 10(4): 3405- 3410.
11. Abdulbasit I. I. Alseini, **Abuelgassim Omer Abuelgassim**, and Mohamed Fareez Meerasahib. Novel Phosphor Specific Antibodies Developed by RIMMS Method Binds to Human Oestrogen Receptor Beta Phosphorylation Site at Position 105. (2013) Life Sci. J 10(4): 2415 – 2423
12. **Abuelgassim, A.O**. Effect of Acacia nilotica fruit extract on serum glucose and lipid concentrations in alloxan-induced diabetic rats . (2013) Pak. J.Biol. Sci. 16 (21), 1398-1402.

13. **AO Abuelgassim**, SIA Al-Showayman. The Effect of Pumpkin (*Cucurbita pepo* L) Seeds and L-Arginine Supplementation on Serum Lipid Concentrations in Atherogenic Rats(2012) *Afr J Tradit Complement Altern Med.* 9(1), 131-137.
14. **Abuelgassim, A.O.** Effect of flax seeds and date palm leaves extracts on serum concentrations of glucose and lipids in alloxan diabetic rats. (2010) *Pak. J.Biol. Sci.* 13 (23), 1141-1145.
15. **Abuelgassim, A.O.** Treatment of hyperlipoproteinemia with low density lipoprotein antibodies in rats. (2008) *Saudi Med.J.* 29 (2), 193-197.
16. Jaber S.M. , Khoja S.M. , **Abuelgassim A.O.** , Marzouki Z.M.H. , Marzouki K.M.H , Marzouki H.Z. Serum Lipid Levels among Saudi school children in Jeddah.(2007) *Arab. J. Lab. Med.* 33 (1): 1-7.
17. Khoja, S.M., Alabbassi, F.A., **Abuelgassim, A.O.**, Al-Bar, O.A. C-reactive protein in diabetes mellitus and hyperlipidemia .(2004) *Saudi Med. J.* 25 (1), 119-121.
18. Alsieni, A.I., **Abuelgassim, A.O.**, Khoja, S.M. Effect of fenfluramine on the activities of key enzymes of the glycolytic pathway in rats. (1999) *Med. Sci. Res.*, 27 (8), 531-534.
19. Khoja, S.M., **Abuelgassim, A.O.**, Al-Bar, O.A. Effect of vanadate on the activity of rat jejunal 6-phosphofructo-1-kinase (1996) *Comp. Biochem. Physiol. C:* 115 (3) 217-221.
20. **Abuelgassim, A.O.**, Salem, A.M., Khoja, S.M. Allosteric control of 6-phosphofructo-1-kinase from rat lung. (1992) *Comp. Biochem. Physiol. B :* 101 (1-2), 135-138.
21. Khoja, S.M., **Abuelgassim, A.O.** Regulation of 6-phosphofructo-1-kinase from the epithelial cells of rat small intestine during pregnancy and lactation. (1991) *Biochimica et Biophysica Acta - General Subjects*, 1074 (3), 357-362.
22. Khoja, S.M., **Abuelgassim, A.O.**, Salem, A.M. 6-Phosphofructo-1-kinase of rat placenta. (1991) *Biochimica et Biophysica Acta - Protein Structure and Molecular Enzymology*, 1076 (1), 61-66.

23. Khoja, S.M., **Abuelgassim, A.O.** 6-Phosphofructo-1-kinase isoenzymes of the jejunal mucosa of rabbit, rat and mouse. (1989) *Comp. Biochem. Physiol. Part B*: 94 (2), 269- 275.
24. **Abuelgassim, A.O.**, Khoja, S.M. Fructose-2, 6-bisphosphate in rat mesenteric lymph nodes. (1988) *Int. J. Biochem.* 20 (10), 1185-1188.
25. Khoja, S.M., Ardawi, M.S.M., **Abulgasim, A.O.** Effects of starvation and streptozotocin-induced diabetes on the activity of phosphofructokinase in the epithelial cells of rat colon. (1988) *Biochimie*, 70 (6), 721-725.
26. Khoja, S.M., Rizk, A.M., **Abulgasim, A.O.** The purification, characterization and regulatory properties of liver phosphofructokinase in the arabian one-humped camel (*Camelus Dromedarius*). (1987) *Comp. Biochem. Physiol. Part B*: 87 (2), 335-340.