



Curriculum Vitae

Professor Abdullah S. Alhomida, Ph. D



PUBLICATIONS 1995-2017

(a) Chapters in Books

I have involved in publishing some chapters in books, however, the below are some selected chapters up to 2017

1. Neurodegenerative metabolites and neuroprotective strategies in diabetic retinopathy: M Shamsul Ola and AS Alhomida; Transworld publisher, Recent Research Develop Neurochem; 8 ISBN: 978-81-308-0542-9; 2014.
2. Role of diet and exercise in diabetic retinopathy: M Shamsul Ola, HA Khan, AS Alhomida; Diet and Exercise in Cognitive Function and Neurological Diseases, Wiley Science; Chapter 10, ISBN: 978-1-118-84055-9; 2015.
3. Methods of trace amines analysis in mammalian brain. Trace Amines and Neurological Disorders: Potential Mechanisms and Risk Factors: Khan HA, Ullah Q, Ahmad A, Alhomida AS, Alrokayan S. Elsevier, USA. 2016, pp. 11-26.
4. Effects of phytochemicals on diabetic retino-neuropathy: M Shamsul Ola, Imtiaz Nawaz, AS Alhomida; Neuroprotective effects of phytochemicals in neurological disorders; Wiley Science; chapter 11; 2016.
5. Book entitled “ Neuroprotective effects of phytochemicals in neurological disorders’ Book chapter: Effects of phytochemicals in diabetic neuro-retinopathy: Mohammad Shamsul Ola, M.I.Nawaz, Abdullah S. Alhomida (2016) Wiley Science Publisher, Chapter 10. ISBN: 978-1-118-84055-9.
6. Mediterranean diet and diabetic retinopathy; In book: Role of the Mediterranean Diet in the Brain and Neurodegenerative Diseases: Mohammad Shamsul Ola and Abdullah S. Alhomida. 2017; Chapter: 11, Publisher: Elsevier, pp.171-181.



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(b) Journals

I have published more than 115 articles in well-known Peer ISI Journals up to now, 2015, however, the below are some selected articles up to middle of 2015:

1. Alhomida AS, Duhaiman AS, Al-Jafari AA, Junaid MA. Determination of L-carnitine, acylcarnitine and total carnitine levels in plasma and tissues of camel (*Camelus dromedarius*), *Comparative Biochemistry and Physiology* 111B: 441-445, 1995 (USA)
2. Duhaiman AS, Rabbani N, Al-Jafari A, Alhomida AS. Purification and some properties of two phospholipases and a toxin from the venom of desert cobra (*Walterinnesia aegyptia*). *Biochemistry and Molecular Biology International*. 37: 1011-1020, 1995 (UK)
3. Duhaiman AS, Rabbani N, Al-Jafari AA, Alhomida AS. Purification and characterization of zeta-crystal from the camel lens. *Biochemistry and Biophysics Research Communication*. 215: 632-640, 1995 (USA)
4. Alhomida AS, Al-Jafari AA, Junaid MA, Al-Whaiby SA, Duhaiman AS. Age, sex and diabetes-related changes in total, free and acylcarnitine in human plasma. *Medical Science Research* 23: 167-169, 1995 (UK)
5. Al-Jafari AA, Kamal MA, Duhaiman AS, Alhomida AS. Acetylcholinesterase from desert cobra (*Walterinnesia aegyptia*) venom. *Molecular and Cellular Biochemistry*. 151: 21-26, 1995 (USA)
6. Alhomida AS. Total, Free, Short-chain and long-chain acyl carnitine levels in Arabian camel milk (*Camelus dromedarius*). *Annals of Nutrition Metabolism* 40: 221-226, 1996 (Switzerland)
7. Alhomida AS. Inhibition studies of the carnitine acetyltransferase from the skeletal muscle of the camel (*Camelus dromedarius*) by sulfhydryde reagents and metal ions. *Biochemistry and Molecular Biology International* 39: 923-931, 1996 (UK)
8. Alhomida AS, Duhaiman AS, Al-Jafari AA, Sobki S, Al-Sulaiman M, Al-Khadar A. Serum total, free and acyl carnitine concentrations in chronic glomerulonephritis patients. *Medical Science Research* 24: 495-498, 1996 (UK)
9. Alhomida AS, Duhaiman AS, Al-Jafari AA, Junaid MA. Purification of carnitine acetyltransferase from the skeletal muscle of the camel (*Camelus dromedarius*). *Molecular Cellular Biochemistry* 165: 95-101, 1996 (USA)
10. Alhomida AS, Al-Jafari AA, Duhaiman AS, Rabbani N, Junaid MA. Kinetic properties of purified carnitine acetyltransferase from the skeletal muscle of Arabian camel (*Camelus dromedarius*). *Biochimie* 78: 204-208, 1996 (French)



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11. Duhaïman AS, Alhomida AS, Rabbani N, Kamal MA, Al-Jafari AA. Purification and characterization of acetylcholinesterase from desert cobra (*Walterinnesia aegyptia*) venom. *Biochimie* 77: 46-50, 1996 (UK)
12. Al-Jafari AA, Al-Khwyter F, Kamal M, Alhomida AS. Kinetics for camel (*Camelus dromedarius*) retina acetylcholinesterase inhibition by methotrexate in vitro. *Japanese Journal of Pharmacology* 72: 49-55, 1996 (Japan)
13. Al-Jafari AA, Kamal M, Duhaïman AS, Alhomida AS. Kinetics of the inhibition of acetylcholinesterase from desert cobra (*Walterinnesia aegyptia*) venom by local anesthetics: procaine and tetracaine. *Journal Enzyme Inhibition* 11: 123-134, 1996 (Swaziland)
14. Al-Jafari AA, Junaid MA, Alhomida AS. Investigation of the influence of theophylline feeding on total, free, short-chain acyl and long-chain acyl carnitine levels in skeletal muscle and liver of rats. *In Vivo* 10: 569-574, 1996 (Greece)
15. Al-Kholaiifi AM, Alhomida AS. Evaluation of theophylline-induced changes on plasma total, free, short-chain acyl and long-chain acyl carnitine concentrations in rats. *Medical Science Research* 25: 31-34, 1997 (UK)
16. Alhomida AS. Effect of renal hemodialysis on serum total, free and acyl carnitine concentrations in chronic pyelonephritis patients. *Archives Medical Research* 28: 101-107, 1997 (Mexico)
17. Alhomida AS. Study of the effects of theophylline-related changes in total, free, short-chain acyl and long-chain acyl carnitine concentrations in rat heart. *Toxicology* 121: 205-213, 1997 (Ireland)
18. Alhomida AS. Investigations of the effects of theophylline administration on carnitine acetyltransferase activity of rat heart. *Journal of Enzyme Inhibition* 12: 291-301, 1997 (Switzerland)
19. Alhomida AS, Sobki SH, Al-Sulaiman MH, Al-Khader AA. Influence of sex and chronic hemodialysis treatments on total, free and acyl carnitine concentrations in human serum. *International Urology and Nephrology* 29: 479-487, 1997 (Netherlands)
20. Alhomida AS, Al-Jafari AA, Junaid MA. The distribution of total, free, short-chain acyl and long-chain acyl carnitine in ocular tissues of the camel (*Camelus dromedarius*). *Journal of Ocular Pharmacology and Therapeutics* 13: 381-387, 1997 (USA)
21. Al-Eissa MS, Alhomida AS. A study the distribution of total, free, short-chain acyl and long-chain acyl carnitine in whole blood and plasma of the Arabian sand gazelles (*Gazella subgutturosa marica*). *Comparative Haematology International* 1: 65-69, 1997 (UK)
22. Al-Jafari A, Kamal M, Alhomida AS. The thermodynamic investigation of camel (*Camelus dromedarius*) retina acetylcholinesterase inhibition by cyclophosphamide. *Journal of Enzyme Inhibition* 11: 275-283, 1997 (Switzerland)



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23. Al-Ghamdi JM, Al-Jafari AA, Alhomida AS. Impact of chronic haemodialysis treatment on whole-blood and serum total dehydro-ascorbate and ascorbate concentrations in Saudi patients with chronic glomerulonephritis. Medical Science Research 25: 47-50, 1997 (UK)
24. Al-Jafari AA A, Kamal MA, Alhomida AS. Evaluation of the nature of camel retinal acetylcholinesterase inhibition by hexamethonium. Journal of Enzyme Inhibition 12: 303-311, 1997 (Switzerland)
25. Alhomida AS. Comparative effects of acetate and bicarbonate haemodialysis on the distribution of whole blood, plasma and erythrocyte total, free, short-chain acyl and long-chain acyl carnitine in patients with chronic renal failure. Medical Science Research 26: 367-371, 1998 (UK).
26. Alhomida AS. Investigation of the effect of theophylline administration on total, free, short-chain acyl and long-chain acyl carnitine distribution in rat renal tissues. Cell Biochemistry and Function 16: 165-171, 1998 (UK)
27. Alhomida AS. Evaluation of the impact of theophylline treatment on carnitine acetyltransferase activity in rat kidney. Anticancer Research 18: 553-558, 1998 (Greece)
28. Al-Jafari AA, Kamal MA, Alhomida AS. On the inhibition of camel retina acetylcholinesterase activity by cycloheximide in vitro. Cell Biology and Toxicology 14: 167-174, 1998 (Netherlands)
29. Al-Jafari AA, Kamal M, Alhomida AS. Sensitivity of bovine retinal acetylcholinesterase (E.C. 3.1.1.7) toward tacrine: kinetic characterization. Journal of Biochemistry and Molecular Toxicology 12: 245-251, 1998 (USA)
30. Al-Jafari AA, Kamal M, Greig NH, Alhomida AS, Perry ER. Kinetics of human erythrocyte acetylcholinesterase inhibition by a novel derivative of physostigmine: phenserine. Biochemical and Biophysical Research Communications 248: 180-185, 1998 (USA)
31. Al-Ghamdi JM, Al-Jafari AA, Alhomida AS, Sobki SH, Al-Sulaiman MH, Al-Khader AA. Whole blood total, reduced and oxidized ascorbic acid levels in Saudi patients with chronic renal failure: influence of gender and chronic haemodialysis. Medical Science Research 26: 343-347, 1998 (UK)
32. Al-Ghamdi JM, Al-Jafari AA, Alhomida AS. Investigation of the effects of gender and chronic hemodialysis treatment on serum vitamin C (ascorbate) and its oxidized metabolites concentrations in chronic renal failure patients. Biomedical Research 9: 115-123, 1998 (India)
33. Alhomida AS. Effect of haemodialysis on peripheral lymphocyte carnitine levels in patients with chronic pyelonephritis. British Journal of Biomedical Science 56: 194-198, 1999 (UK).



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34. Alhomida AS. Alteration of carnitine acetyltransferase activity in skeletal muscle and liver of rats after theophylline treatment. *Journal of Biochemistry, Molecular Biology and Biophysics* 2: 273-280, 1999 (USA)
35. Alhomida AS. Influence of acetate and bicarbonate dialysate on blood short- and long-chain acyl carnitine in adult pyelonephritis patients. *Annals of Clinical Biochemistry* 36: 48-55, 1999 (UK)
36. Alhomida AS. Effect of chronic haemodialysis on total, free and acyl carnitine concentrations in human peripheral blood lymphocytes. *Medical Science Research* 27: 185-188, 1999 (UK).
37. Al-Kholaifi AM, Alhomida AS. Influence of theophylline on urinary excretion of total, free and acyl carnitine in rats. *In Vivo* 13: 225-230, 1999 (Greece)
38. Siddiqi NJ, Alhomida AS. Status of hepatic oxidative stress and antioxidant defense systems during chloroquine treatment of *Plasmodium yoelii nigeriensis* infected mice. *In Vivo* 13: 547-550, 1999 (Greece)
39. Al-Madani HA, Al-Jafari AA, Alhomida AS, Siddiqi NJ, Sobki SH, Al-Khader AA, Popovich WF. Impact of haemodialysis membranes on human serum total, free, short-chain acyl and long-chain acyl carnitine concentration. *Medical Science Research* 27: 485-488, 1999 (UK)
40. Alhomida AS. A comparative study of erythrocytic total, free, short-chain acyl and long-chain acyl carnitine concentrations in Arabian Camel (*Camelus dromedarius*) with different species. *Comparative Haematology International* 10: 190-195, 2000 (UK)
41. Alhomida AS. Gender and hemodialysis-related changes in peripheral blood lymphocyte concentrations of total, free and acyl carnitine in chronic renal failure patients. *Biomedical Research*.11: 7-17, 2000 (India)
42. Alhomida AS. Theophylline-induced changes in the activity of carnitine palmitoyltransferase in rat cardiac tissues. *Toxicology* 145: 185-193, 2000 (Ireland)
43. Alhomida AS. Effect of gender and dialysate solution on human serum carnitine concentrations. *Biomedical Research*.11: 231-237, 2000 (India)
44. Alhomida AS, Al-Rajhi AA, Kamal MA, Al-Jafari AA. Kinetic analysis of toxicological effects of cognex (tacrine) on human retinal acetylcholinesterase activity. *Toxicology*, 147: 33-39, 2000 (Ireland)
45. Siddiqi NJ, Alhomida AS. A study of the distribution of total, free and protein-bound hydroxyproline in the plasma of the Arabian camel (*Camelus dromedarius*). *Comparative Haematology International* 10: 144-147, 2000 (UK)
46. Srivastava S, Alhomida AS, Siddiqi NJ. Study on erythrocytic methemoglobin reductase systems during *Plasmodium yoelii nigeriensis* infected mice. *In Vivo*, 14: 547-550, 2000 (Greece)
47. Siddiqi NJ, Alhomida AS, Sharma B, Pandey VC. Effect of tumor necrosis factor on hepatic oxidative stress and antioxidant defense indices in normal and



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Plasmodium yollii nigeriensis infected mice. Drug and Chemical Toxicology, 23: 35-59, 2000 (USA)

48. Alhomida AS, Al-Rajhi AA, Al-Jafari AA. Thermodynamic analysis of human retinal acetylcholinesterase inhibition by an anti-Alzheimer=s drug, tacrine by the developing of dual substrate and temperature model. Proceedings of the National Science Council, 24, 108115, 2000 (China)

49. Al-Ghamdi JM, Al-Jafari AA, Alhomida AS, Sobki SH, Al-Sulaiman MH, Al-Khader AA. Effects of chronic hemodialysis treatment on whole-blood and serum levels of total, oxidized and reduced ascorbic acid in adult chronic pyelonephritis patients. Medical Biochemistry 1: 167-174, 2000 (Switzerland)

50. Al-Madani HA, Al-Jafari AA, Alhomida AS, Siddiqi NJ, Al-Khader AA. A comparative study of carnitine removal rate during two different haemodialyser membranes. Medical Science Research 28: 23-27, 2000 (UK)

51. Al-Jafari AA, Kamal MA, Alhomida AS, Greig NH Kinetics of rat brain acetylcholinesterase inhibition by two experimental Alzheimer=s disease drugs, phenserine and tolserine Journal of Biochemistry, Molecular Biology and Biophysics, 4: 323-335, 2000 (USA)

52. Kamal M, Greig NH, Alhomida AS, Al-Jafari AA. Kinetics of human acetylcholinesterase inhibition by the novel experimental Alzheimer therapeutic agent, tolserine. Biochemical Pharmacology 60: 561-570, 2000 (USA)

53. Siddiqi NJ, Al-Jafari AA, Alhomida AS. Investigation of total, free, peptide-bound, protein-bound, soluble and insoluble collagen hydroxyproline content in tissues from the Arabian camel (Camelus dromedarius). Cell Biochemistry and Function 18: 243-248, 2000 (UK)

54. Alhomida AS. Theophylline feeding to rats changes renal carnitine palmitoyltransferase activity. Archives of Medical Research 32: 394-399, 2001 (Mexico)

55. Alhomida AS. Evaluation of theophylline-stimulated changes in carnitine palmitoyltransferase activity in skeletal muscle and liver of rats. Journal of Enzyme Inhibition. 16: 177-183, 2001 (Switzerland)

56. Srivastava S, Alhomida AS, Siddiqi NJ, Pandey VC, Puri SK. Effect of â-arteether treatment on erythrocytic methemoglobin reductase system in Plasmodium yoelii nigeriensis infected mice. Drug Chemical Toxicology 24: 181-190, 2001 (USA)

57. Siddiqi NJ, Alhomida AS, Maheshwari RK, Pandey VC. Effect of poly ICLC treatment on hepatic oxidative stress and antioxidant defense indices in Plasmodium yoelii nigeriensis infected mice. In Vivo 15: 77-80, 2001 (Greece)

58. Srivastava S, Alhomida AS, Siddiqi NJ, Pandey VC. Changes in erythrocyte methemoglobin reductase system produced by two different species of rodent malaria parasite viz., Plasmodium yoelii nigeriensis and Plasmodium berghei. Comparative Biochemistry and Physiology 129: 725-731, 2001 (USA)



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59. Siddiqi NJ, Sharma B, Alhomida AS. A study on distribution of different hydroxyproline fractions in the bovine ocular tissues. *Molecular and Cellular Biochemistry* 217: 67-71, 2001 (USA)
60. Srivastava S, Alhomida AS, Siddiqi NJ, Puri SK, Pandey VC. Methemoglobin reductase activity and in vitro sensitivity towards oxidant induced methemoglobinemia in Swiss mice and Beagle dogs erythrocytes. *Molecular and Cellular Biochemistry* 232:81-85, 2002 (USA)
61. Siddiqi NJ, Alhomida AS. Antagonist effect of chloroquine and tumor necrosis factor on hepatic oxidative stress and antioxidant defense in normal and *Plasmodium yoelii nigeriensis* infected mice. *In Vivo* 16: 67-70, 2002. (Greece)
62. Siddiqi NJ, Alhomida AS. Distribution of total, free, peptide-bound and protein-bound hydroxyproline in erythrocyte from different mammals. *Comparative Clinical Pathology* 11: 123-128, 2002. (UK)
63. Alhomida AS, Siddiqi NJ, Sharma B. Hydroxyproline distribution in the plasma of various mammals. *Journal of Biochemistry, Molecular Biology and Biophysics* 6: 159-163, 2002 (USA)
64. Siddiqi NJ, Alhomida AS. Investigation into the distribution of total, free, peptide-bound, protein-bound, soluble- and insoluble-collagen hydroxyproline in various bovine tissues. *Journal of Biochemistry and Molecular Biology* 36: 154-158, 2003 (Korea)
65. Siddiqi NJ, Alhomida AS. Hydroxyproline Concentration in ocular tissues of Arabian camel (*Camelus dromedarius*). *Indian Journal of Biochemistry and Biophysics* 40: 451-454, 2003
66. Alhomida AS. Comparative study on distribution of soluble- and insoluble-collagen hydroxyproline in the tissues of two desert animals viz., Arabian camel (*Camelus dromedarius*) and Arabian sand gazelles (*Gazella subgutturosa marica*). *Malaysian Journal of Biochemistry and Molecular Biology* 8: 225-229, 2003 (Malaysia)
67. Siddiqi NJ, Alhomida AS. Effect of mercuric chloride on various hydroxyproline fractions in rat serum. *Molecular and Cellular Biochemistry* 271: 159-165, 2005 (Canada)
68. Siddiqi NJ, Alhomida AS. Effect of mercuric chloride on urinary excretion of free hydroxyproline. *Medical Science Monitor* 12: BR95-101, 2006 (USA)
69. Siddiqi NJ, Alhomida AS. Effect of mercuric chloride on urinary excretion of free hydroxyproline. *Medical Science Monitor* 12: BR95-101, 2006
70. Khan HA, Alhomida AS, Sobki S, Khan S. Relevance of serum fructosamine an random blood glucose for the screening of gestational diabetes mellitus. *Asian Journal of Biochemistry* 1: 41-46, 2006
71. Khan HA, Sobki SH, Alhomida AS. Fluctuations blood glucose and serum fructosamine in pregnant women monitored on successive antenatal visits. *Clinical and Experimental Medicine* 6: 134-137, 2006



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72. Siddiqi NJ, Alhomida AS. Changes in various hydroxyproline fractions in rat kidneys after mercuric chloride treatment. *International Journal of Biological Chemistry* 1 (2): 84B90, 2007
73. Khan HA, Sobki SH, Alhomida AS. Paired values of serum fructosamine and blood glucose for the screening of gestational diabetes mellitus: A retrospective study of 165 Saudi pregnant women. *Indian Journal of Clinical Biochemistry* 22: 65-70, 2007
74. Abdelhalim MAH, Siddiqi NJ, Alhomida AS, Al-Ayed MS. Effects of feeding periods of high cholesterol and saturated fat diet on blood biochemistry and hydroxyproline fractions in rabbits. *Bioinformatics and Biology Insights Journal* 2; 239-244, 2008.
75. Siddiqi NJ, Abdelhalim MH, Alhomida AS, Al-Ayed MS. Effect of high cholesterol diet on aortic hydroxyproline and collagen content in rabbits. *Research & Reviews in Biosciences Journal* 2 (1):, XXX-XXX 2008
76. Seddiqi NJ, Alhomida AS. Determination of indoleamine 2,3-dioxygenase activity in tissues of Arabian camel (*Camelus dromedaries*). *Arab Chemical Journal* 1 (2): 131-135, 2008
77. Al-Omireeni EA, Siddiqi NJ, Alhomida AS. Effect of different doses of sodium fluoride on various hydroxyproline fractions in rat kidneys. *Kidney Research Journal* 1-7: 3374-337XX, 2009
78. Al-Madani WA, Siddiqi NJ, Alhomida AS. Renal Toxicity of Mercuric Chloride at Different Time Intervals in Rats. *Biochemistry Insights* 2: 37-45, 2009
79. Khan HA, Alhomdia AS, Arif IA. Neurovestibular toxicities of acrylonitrile and iminodipropionitrile in rats: a comparative evaluation of putative mechanisms and target sites. *Toxicological Science* 109: 124-131, 2009
80. Khan HA, Alhomida AS, Arif IA. On the mechanism of nitriles toxicity. *Toxicological Science* 110: 246-248, 2009
81. Sobki SH, Zaid AA, Khan HA, Alhomida AS, Hilal KA, Khan SA. Significant impact of pace of eating on serum ghrelin and glucose levels. *Clinical Biochemistry* 43(4-5): 522-524, 2010
82. Al-Madani WA, Siddiqi NJ, Alhomida AS, Khan HA, Arif IA, Kishore U. Increased urinary excretion of carnitine and acylcarnitine by mercuric chloride is reversed by 2,3-dimercapto-1-propanesulfonic acid in rats. *International Journal of Toxicology* 29(3): 313-7, 2010
83. Abdelhalim MA, Siddiqi NJ, Alhomida AS, Al-Ayed MS. The changes in various hydroxyproline fractions in aortic tissue of rabbits are closely related to the progression of atherosclerosis. *Lipids in Health and Diseases* 9 (9): 26-29, 2010
84. Al Omireeni EA, Siddiqi NJ, Alhomida AS. Effect of magnesium chloride and sodium fluoride on various hydroxyproline fractions in rat kidneys. *Canadian Journal of Pure and Applied Sciences* (2) 4: 1163-1168, 2010



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85. Al Omireeni EA, Siddiqi NJ, Alhomida AS. Effect of different doses of sodium fluoride on various hydroxyproline fractions in rat serum. Cellular and Molecular Biology 57 (1): 88-XX, 2011
86. Al Moutaery M, Rayes H, Swailem R, Elfaki I, Khan HA, Alhomida AS, Arshaduddin M, Tariq M. 2,3-Dimercaptopropanol, a thiol chelator, alleviates gastroduodenal ulcers in rats. Fundamental Clinical Pharmacology 20011
87. Abdelhalim MK, Mady MM, Ghannam MM, Alhomida AS, Al-Ayed MS. The effects of gold nanoparticle size and concentration on rheological, flow activation energy, dielectric and optical properties for gold nanoparticles. Journal of Nanomaterials 2012
88. Khan HA, Alhomida AS, Al Madani H, Sobki SH (2013) Carnitine and acylcarnitine profiles in dried blood spots of patients with acute myocardial infarction. Metabolomics 9, 828-838.
89. Khan HA, Alhomida AS (2013) Single nucleotide polymorphism in CPT1B and CPT2 genes and its association with blood carnitine levels in acute myocardial infarction patients. Gene 523(1):76-81
90. Khan HA, Abdelhalim MA, Alhomida AS, Al Ayed MS (2013) Effects of naked gold nanoparticles on proinflammatory cytokines mRNA expression in rat liver and kidney. Biomed. Res. Int. 2013:590730
91. Khan HA, Alhomida AS, Ola MS, Sobki SH (2013) Alterations in prothrombin time and activated partial thromboplastin time in patients with acute myocardial infarction. Int. J. Clin. Exp. Med. 6(4):294-7
92. Khan HA, Abdelhalim MA, Alhomida AS, Al Ayed MS (2013) Transient increase in IL-1 β , IL-6 and TNF- α genes expression in liver of rats exposed to gold nanoparticles. Genet. Mol. Res. 12 (4), 5851-5857
93. Khan HA, Alhomida AS, Sobki SH, Habib SS, Al Aseri Z, Khan AA, Al Moghairi A (2013) Serum markers of tissue damage and oxidative stress in patients with acute myocardial infarction. Biomed. Res. 24 (1), 15-20
94. Khan HA, Alhomida AS, Sobki SH (2013). Lipid profile of patients with acute myocardial infarction and its correlation with systemic inflammation. Biomarker Insight. 8, 1-7.
95. M.Shamsul Ola, Mohd Imtiaz Nawaz, Ahmed Abu El-Asrar, Marwan Abouammoh, Abdullah S. Alhomida (2013). Reduced level of brain derived neurotrophic factor (BDNF) in serum of diabetic retinopathy patients and in the retina of diabetic rats. Cell Mol Neurobiol. 2013 Apr;33(3):359-67
96. Mohd Imtiaz Nawaz, Marwan Abdulrahman Abouammoh, Abdullah S. Alhomida, Mubarak Alfaran, M. Shamsul Ola (2013), Potential future drugs and their targets in the treatment of diabetic retinopathy, Medical Science Monitor 26;19:300-8
97. M. Shamsul Ola, Nawaz MI, Khan HA, Alhomida AS.(2013) Neurodegeneration and neuroprotection in diabetic retinopathy.Int J Mol Sci. 28;14(2):2559-72



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98. M.Shamsul Ola, Mohammed M Ahmed, Hashish Hatem-Abuo, Salim Alrejaie, Abdullah S. Alhomida (2013). Telmisartan ameliorates neurodegeneration in diabetic rat retina, *Neurochem Res*, 38(8):1572-9
99. Islam S, Yakout SM, Al Daghri NM, Alhomida AS, Khan HA (2014) Serum levels of thrombotic markers in patients with acute myocardial infarction. *Int. J. Clin. Exp. Med.* 7(4):1059-1063
100. Al Aseri Z, Habib SS, Alhomida AS, Khan HA (2014) Relationship of high sensitivity C-reactive protein with cardiac biomarkers in patients presenting with acute coronary syndrome. *J. Coll. Phys. Surg. Pak.* 24 (6), 387-391
101. Khan HA, Alhomida AS, Habib SS, Ola MS, Khan AA, Siddiqui NJ, Sobki SH, Al Madani H (2014) Blood carnitine as a biomarker for acute myocardial infarction. *Biomed. Res.* 25 (1), 63-66
102. Khan HA, Ola MS, Alhomida AS, Sobki SH, Khan SA (2014). Evaluation of HbA1c criteria for diagnosis of diabetes mellitus: a retrospective study of 12785 type 2 Saudi male patients. *Endocrine Res.* 39 (1):61-65
103. Mohammad Shamsul Ola and Abdullah S. Alhomida (2014) Neurodegeneration in diabetic retina and its potential drug targets. *Current Neuropharmacology* 12; 4. 80-86
104. M. Shamsul Ola, Abdulaziz M. Aleisa, Salim S. Al-Rejaie, Hatem M. Abuohashish, Mihir Y. Parmar, Abdullah S. Alhomida, Mohammed M. Ahmed (2014) Flavonoid, morin inhibits oxidative stress, inflammation and enhances neurotrophic support in the brain of streptozotocin-induced diabetic rats *Neurological Sciences.* 35(7):1003-8
105. Mohammad Shamsul Ola and Abdullah S. Alhomida (2014). Neurodegenerative metabolites and neuroprotective strategies in diabetic retinopathy. *Recent Res. Devel. Neurochem.*, 8: 1-10 ISBN: 978-81-308-0542-9
106. M.Shamsul Ola, Ahmed MM, Ahmad R, Abuohashish HM, Al-Rejaie SS, Alhomida AS (2015) Neuroprotective Effects of Rutin in Streptozotocin-Induced Diabetic Rat Retina. *J. Mol. Neurosci.* 2015 Jun;56(2):440-8. doi: 10.1007/s12031-015-0561-2
107. Mohammad Shamsul Ola, Haseeb A Khan, Abdullah S. Alhomida (2015). Role of diet and exercise in diabetic retinopathy; book; "Diet and Exercise in Cognitive Function and Neurological Diseases" by John Wiley and Sons, Inc. chapter 10; 105-110; DOI: 10.1002/9781118840634
108. Khan HA, Sobki SH, Abdullah S. Alhomida (2015) Regression analysis for testing association between fasting blood sugar and glycated hemoglobin in diabetic patients. *Biomed. Res.* 26 (3), 604-606
109. Khan HA, Ibrahim KE, Khan A, Alrokayan SH, Alhomida AS. Comparative evaluation of immunohistochemistry and real-time PCR for measuring proinflammatory cytokines gene expression in livers of rats treated with gold nanoparticles. *Exp. Toxicol. Pathol.* 2016, 68 (7):381-390.



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110. Khan HA, Alrokayan SH, Alhomida AS, Khan I. Total RNA yield and its correlation with GAPDH expression in liver and kidneys of rats treated with gold nanoparticles. *Biomed. Res.* 2016, S424-S429.
111. Khan HA, Ibrahim KE, Khan A, Alrokayan SH, Alhomida AS. Immunostaining of proinflammatory cytokines in renal cortex and medulla of rats exposed to gold nanoparticles. *Histol. Histopathol.* 2017, 32, 597-607.
112. Al-Dosari DI, Ahmed MM, Al-Rejaie SS, Alhomida AS, Ola MS. Flavonoid Naringenin Attenuates Oxidative Stress, Apoptosis and Improves Neurotrophic Effects in the Diabetic Rat Retina. *Nutrients.* 2017 Oct 24;9(10). pii: E1161. doi: 10.3390/nu9101161.
113. Ola MS, Alhomida AS, Ferrario CM, Ahmad S. Role of Tissue Renin-angiotensin System and the Chymase/angiotensin-(1-12) Axis in the Pathogenesis of Diabetic Retinopathy. *Curr Med Chem.* 2017;24(28):3104-3114. doi: 10.2174/0929867324666170407141955
114. Dalia Ibrahim Al-Dosary, Abdullah S. Alhomida, Mohammad Shamsul Ola. Protective effects of dietary flavonoids in diabetic induced retinal neurodegeneration. *Current Drug Targets*; PMID: 27697035. 2017;18(13):1468-1476. doi: 10.2174/1389450117666161003121304
115. Al-Dosari DI, Ahmed MM, Al-Rejaie SS, Alhomida AS, Ola MS. Flavonoid Naringenin Attenuates Oxidative Stress, Apoptosis and Improves Neurotrophic Effects in the Diabetic Rat Retina. *Nutrients.* 2017 Oct 24;9(10). pii: E1161. doi: 10.3390/nu9101161.
116. Ola MS, Alhomida AS, Ferrario CM, Ahmad S. Role of Tissue Renin-angiotensin System and the Chymase/angiotensin-(1-12) Axis in the Pathogenesis of Diabetic Retinopathy. *Curr Med Chem.* 2017;24(28):3104-3114. doi: 10.2174/0929867324666170407141955
117. Dalia Ibrahim Al-Dosary, Abdullah S. Alhomida, Mohammad Shamsul Ola. Protective effects of dietary flavonoids in diabetic induced retinal neurodegeneration. *Current Drug Targets*; PMID: 27697035. 2017;18(13):1468-1476. doi: 10.2174/1389450117666161003121304
118. Mohammad Shamsul Ola, Dalia Al-Dosari, Abdullah S. Alhomida. Role of oxidative stress in diabetic retinopathy and the beneficial effects of flavonoids. *Current Pharmaceutical Design*, 2017 (In Press).