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المملكة العربية السعودية
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والاعتماد الأكاديمي



Curriculum Vitae
Professor Abdullah S Alhomida



Biochemistry Department
College of Science - King Saud University



PERSONAL DATA

Date of Birth : 11/1/ 1959
Place of Birth : Buraidah, Qassim, Saudi Arabia
Marital Status : Married (three children)
Nationality : Saudi
Sex : Male
Languages : Arabic and English

PRESENT POSITION

January 1, 2014 to now

Editor-in-Chief of Saudi Journal of Biological Sciences

October 15, 2009 to September 7, 2011

Vice-Dean for Graduate Studies and Scientific Research, College of Science, King Saud University, Riyadh, Saudi Arabia

September 18, 2002 to August 5, 2007

Chairman of Department of Biochemistry, College of Science, King Saud University, Riyadh, Saudi Arabia

April 28, 2002 to date

Full Professor at Department of Biochemistry, College of Science, King Saud University, Riyadh, Saudi Arabia

April 19, 1998 to 2002

Associate Professor at Department of Biochemistry, College of Science, King Saud University, Riyadh, Saudi Arabia



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Biochemistry Department
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April 30, 1994 to April 19, 1998

Assistant Professor at Department of Biochemistry, College of Science, King Saud University, Riyadh, Saudi Arabia

1994 to date

Teaching general biochemistry, enzyme mechanisms and metabolism courses to undergraduate students. Teaching an advanced course in biochemistry in M.Sc. program offered by Department of Biochemistry at College of Science, King Saud University, Riyadh, Saudi Arabia

1992-1993

Teaching Biochemistry Courses to Pre-Medical Students, Department of Chemistry, Akron University, Ohio, USA

1991-1992

Teaching Organic Chemistry and Biochemistry Courses to Nursing Students, Department of Chemistry, Akron University, Ohio, USA

1986-1987

Teaching Assistant (Demonstrator) in Department of Biochemistry, College of Science, King Saud University, Riyadh, Saudi Arabia

EDUCATION

18/12/1993

Ph. D. Biochemistry, Akron University, Ohio, USA

Ph. D. Dissertation Title:

"Effects of Various Physiological Parameters on Tissue Carnitine and Carnitine-Dependent Enzyme Activity in Rats"

Advisor name: Professor Daniel J. Smith

1986

B. Sc. Biochemistry, College of Science, King Saud University, Riyadh, Saudi Arabia



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1985-1986

Class Valedictorian - College of Science, King Saud University, Riyadh, Saudi Arabia

RESEARCH AND SERVICES

I played an instrumental role in the establishment and inauguration of the laboratory within the Biochemistry Dept., College of Science, King Saud University, Riyadh, Saudi Arabia. This laboratory was created for the training of Graduate and Undergraduate students with the objective of providing state of the art facilities that utilized the most recent methods for clinical and biomedical experimentation.

RESEARCH AREAS

Determination of metabolic metabolite levels in whole blood, plasma, serum, urine and tissues of mammals
Effects of nanoparticles on metabolic metabolite levels in whole blood, plasma, serum, urine and tissues of mammals
Effects of kidney diseases on the vitamin levels in human blood
Studies on human brain acetylcholinesterase and butyrylcholinesterase
Effects of chronic renal hemodialysis on the metabolic metabolites
Studies of mechanism of metabolic metabolites transporters
Studies of enzyme kinetics and reaction mechanisms
Studies of oxytocinase kinetics and reaction mechanisms.
Studies of leucine aminopeptidase kinetics and reaction mechanisms
Effects of anticancer drugs on enzymes activity
Effects of heavy metals on the renal function.
Studies on chemical modification in activity of enzymes
Studies on the collagen content in various tissues
Studies on the biochemistry of exercise
Studies on the heart diseases

ONGOING PROJECTS

I am currently working in the area of carnitine metabolism and its implication in human diseases. I am also studying the role of the carnitine pathway of energy metabolism in the Arabian camel (*Camelus dromedarius*), in order to explore the relationship between carnitine



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and the camel's superior ability to subsist in the harsh desert climate compared to other animals. Another research area of my interest is to study the biochemical and molecular toxicity of drugs, toxicants and nanomaterials, using both in-vivo and in-vitro models. More recently, my research interest extends in the area of diabetic retinopathy (DR). I am interest in identifying early key initiating factors or signaling molecules which render metabolic derangements and eventually damage both neuronal and vascular cells in the retina causing diabetic retinopathy. Thus, I have specific interest in understanding early molecular and cellular mechanisms of retinal injury and thereby targeting molecular components for therapeutic intervention. On-going research projects include: Neurodegeneration and neuroprotection studies in diabetic retinopathy, Hyperglycemia-Induced Oxidative Stress in Diabetic Retina, Glutamate excitotoxicity: a potential role in neurovascular damage in diabetic retinopathy, Analysis of potential neurodegenerative metabolites and neurotrophic factors in diabetic retinopathy and Inflammation and Angiogenesis studies in diabetic retinopathy.

TRAINING OF ASSISTANT PERSONNEL

I have trained departmental technicians and students in the following:

1. Methodology of carnitine determination from various sources
2. Techniques of investigations into enzyme reaction mechanisms.
3. Kinetics studies of enzymes
4. Total protein and non-collagen protein determinations from different sources
5. Determination of metabolic metabolites levels in whole blood, serum, plasma and tissues in mammals
6. Investigations into antimalarial drugs
7. Studies into the effect of radiation therapy on some biomarker enzymes
8. Isolation and characterization of eye retina to study the neurodegeneration and neuroprotection studies in diabetic retinopathy, hyperglycemia-Induced oxidative Stress in diabetic retina, glutamate excitotoxicity

PROFESSIONAL AFFILIATIONS

Member of the Saudi Chemical Society, KSA
Member of the American Chemical Society, USA
Member of the Ohio Academy of Sciences, USA



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Member of Association for Research in Vision and Ophthalmology, USA

RESEARCH AWARDS

I have awarded several local and international research projects since 1994 up to now, 2015, however, the below are some selected awarded research projects:

A. Research projects awarded by the College of Science, Research Center, King Saud University, Riyadh, Saudi Arabia:

- Determination of carnitine levels in different tissues from different sources (Bio/1415/02)
- Effects of various physiological factors on free, acylated and total carnitine levels in human plasma (Bio/1415/04).
- Effect of some therapeutic drugs feeding on the levels of plasma, urine and tissue carnitine in rats (Bio/1418/01).
- Kinetic studies of some serum enzymes during human pregnancy (Bio/1421/05)
- Distribution of Total, Free, Peptide-bound and Protein-bound hydroxyproline in human erythrocytes (Bio/
- KACST funded grant: Glutamate excitotoxicity: a potential role in neurovascular damage in diabetic retinopathy (funded for three years; SR 1074000.00, Grant number ARP:30-23; serving as a CO-I

B. Research projects awarded by King Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia:

- Study of the distribution of total, free, short-chain acyl and long-chain acylcarnitine in ocular tissues of humans (LG-51-7)
- Effect of theophylline feeding on the level of total, free and acyl carnitine in urine, plasma and tissue of rats (LG-1-10)
- Study of the distribution of total, free, short-chain acyl and long-chain acylcarnitine in ocular tissues of the bovine (LG-3-26)
- Effect of hemodialysis on concentration of total, oxidized and reduced ascorbic acid in whole blood and serum of chronic glomerulonephritis patients (SR-3-17)
- Investigation study of influence of dialyzer membranes on the distribution of serum levels of total, free, short-chain acyl and long-chain acyl carnitine in chronic glomerulonephritis patients (SR-6-43)



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- Effect of mercuric chloride on the urinary excretion of total, free and acylcarnitine in rats (SR-9-41)
- Kinetic studies of serum oxytocinase from the 36th to 38th week in pregnant women (SR-9-42)
- C. Research projects awarded by Saudi Basic Industrial Company (Sabic), Riyadh, Saudi Arabia:
 - Effect of Mercuric chloride on Total, Free, Short-chain Acyl and Long-chain Acyl Carnitine Concentration in Rat Kidneys (Sabic-2004)
 - Effect of mercuric chloride on urinary excretion of hydroxyproline in rats (Sabic-2005)
- D. Candidate for Abdul-Hameed Shouman's Prize for Arab Youth Researchers, Oman, Jordan (1996)

SOME SELECTED CONFERENCES AND SYMPOSIA ACTIVITIES

1. 16th IFCC-FESCC European Congress of Clinical Chemistry and Laboratory Medicine. Glasgow, UK (May 8 - 12, 2005)
2. 10th Asian Pacific Congress of Clinical Biochemistry. Perth, Australia (September 19-23)
3. Second International Conference of Comparative Physiology and Biochemistry: How Animal Work. Botswana, South Africa (August 18-24, 2001)
4. 18th International Congress of Biochemistry and Molecular Biology: Beyond the Gene. Birmingham, UK (July 16-20, 2000)
5. International Conference on Oxidative Stress in Skin Biology and Medicine. Attiki, Greece (September 13-16, 1999)
6. 6th International Union of Biochemistry and Molecular Biology Conference, Seoul, South Korea (October 10-13, 1999)
7. The Health and Hygiene sub-theme of the symposium, ABiological Chemistry Beyond 2000 AD, Faizabad, India (November 27-28, 1999)
8. 17th International Congress of Biochemistry and Molecular Biology, San Francisco, California, USA (August 24-29, 1997)
9. 24th Central Regional Meeting of the American Chemical Society, Cincinnati, Ohio, USA (May 26-29, 1992).
10. The Second National Meeting of Chemists, King Saud University, Riyadh, Saudi Arabia (7-9 April, 1987)



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UNIVERSITY AND COMMUNITY SERVICES

1. Academic advisor in Biochemistry Department, College of Science, King Saud University, Riyadh, Saudi Arabia (1994 to date)
2. Representative of the Biochemistry Department in Research Center, College of Science, King Saud University, Riyadh, Saudi Arabia (1995 to 2002)
3. Representative of the Biochemistry Department in Committee's Sport Activities, College of Science, King Saud University, Riyadh, Saudi Arabia (1995 to 1998)
4. Representative of College of Science in Committee for the Use of Laboratory Animals, King Saud University, Riyadh, Saudi Arabia (1997 to date)
5. Secretary of the Biochemistry Department Board, College of Science, King Saud University, Riyadh, Saudi Arabia (1997 to 2002)
6. Representative of College of Science in Preparation Committee for Workshop: ACatalysts and Their Applications, King Saud University, Riyadh, Saudi Arabia (2000 to 2002)
7. Reviewer for research project submitted to Research Center, King Abdulaziz University, Jeddah, Saudi Arabia (1997)
8. Reviewer for research papers submitted to The Journal King Saud University, King Saud University, Riyadh, Saudi Arabia (2000)
9. Convenor of Committee of Training in Department of Biochemistry, King Saud University, Riyadh, Saudi Arabia (1999 to date)
10. Convenor of Committee of Public Relations and Media of Workshop in ACatalysis and Their Applications@, King Saud University, Riyadh, Saudi Arabia (2001 to 2002)
11. Advisor or co-advisor for more than 15 Master students, however, the following M.Sc. thesis projects are some selected:

Jihan M Al-Ghamdi (March, 1997):

Thesis Title: "Effect of renal hemodialysis on total, oxidized and reduced ascorbic acid concentrations in whole blood and serum of chronic glomerulonephritis patients".

Abdullah M Al-Kholaiifi (April, 1997):

Thesis Title: "Effect of theophylline on plasma and urine in total, free and acyl carnitine concentrations in rats".

Mohammed S Al-Eisa (November, 1997):

Thesis Title: "Determination of total, free and acyl carnitine in whole-blood, plasma and tissue levels of the Arabian sand gazelles (*Gazella subgutturosa marica*).



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Halima A. Al-Madani (November, 1999):

Thesis Title: AInfluence of dialyzer membrane on distribution of serum total, free, short-chain acyl and long-chain acyl carnitine in chronic glomerulonephritis patients

Mohammed M. Safahi (2000):

Thesis Title: Kinetic studies of serum oxytocinase from the 36th to 38th week in pregnant women”.

Waleed A. Al-Madani (June 2004):

Thesis Title: AEffect of mercuric chloride on the urinary excretion of total, free and acyl carnitine in rats.

Ibrahim M. Al-Twaijri (February 2005)*:

Thesis Title AExtraction of high fructose liquid sugar from dates@

Nasser S. Almohadel (February 2005):

Thesis Title: Total, free, short-chain, and long-chain acyl carnitine in serum of patients with stable coronary artery disease.

Eman A. Alemeeraini (2012)*:

Thesis Title: "Effect of sodium fluoride administration on concentration of hydroxyproline in renal rats"

Dalia Aldosary (2015 to now):

Shafiqul Islam (2014):

Thesis Title: Appraisal of cardiac markers of acute myocardial infarction (AMI) as presymptomatic predictors of AMI.

Dalia Aldosary (2015 to now)*

Thesis Title “Effect of dietary flavonoid naringenin on the oxidative damage in diabetic rat retina”

*Coadvisor

PUBLICATIONS

(a) Chapters in Books

I have involved in publishing some chapters in books, however, the below are some selected chapters up to 2015

1. 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.



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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. 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.
4. Khan HA, Ullah Q, Ahmad A, Alhomida AS, Alrokayan S. Methods of trace amines analysis in mammalian brain. Trace Amines and Neurological Disorders: Potential Mechanisms and Risk Factors. Elsevier, USA. 2016, pp. 11-26.
5. Mohammad Shamsul Ola, M.I.Nawaz, **Abdullah S. Alhomida (2016)**; Book entitled “ Neuroprotective effects of phytochemicals in neurological disorders’ Book chapter: Effects of phytochemicals in diabetic neuro-retinopathy, **Wiley Science Publisher, Chapter 10. ISBN: 978-1-118-84055-9.**
6. Mohammad Shamsul Ola and **Abdullah S. Alhomida**. Mediterranean diet and diabetic retinopathy; In book: Role of the Mediterranean Diet in the Brain and Neurodegenerative Diseases, **2017; Chapter: 11, Publisher: Elsevier**, pp.171-181.

(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)



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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, Duhaïman 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, Duhaïman 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**, Duhaïman 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)



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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)
11. Duhaiman 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, Duhaiman 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-Kholaifi 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)



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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)
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)



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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).
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)



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