

Curriculum Vitae (C.V.)

PERSONAL DATA:

- Name: **Barakat Elhussein Mohammed Elmahdi**
- Nationality: Sudanese
- Date of birth: 1.1.1962
- Marital status: Married with three children
- Specialization: Biochemistry
- Present address: Faculty of Science, King Faisal University-Kingdom of Saudi Arabia
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Academic qualifications

- Ph.D. November 1998 Hannover School of Veterinary Medicine- Germany,
- M.V. Sc. March 1992 University of Khartoum -Sudan
- B.V.Sc. May 1987 University of Khartoum- Sudan

Professional experience:

- **September 1988-1991**
DAAD Scholarship for studying M. V. Sc. in Biochemistry, Faculty of Vet. Med. University of Khartoum. During this period three months (from September 1989 to December 1989) were spent in Hannover School of Veterinary Medicine, Germany, for studying the Laboratory techniques and samples analysis.
- **August 1992-December 1992:**
Teaching assistant in the Department of Biochemistry, Faculty of Vet. Med. University of Khartoum, Sudan.
- **January 1992- June 1995:**
Promotion to a lecturer, Department of Biochemistry, Faculty of Vet Med. University of Khartoum. During this time I was a part-timer Lecturer in the Faculty of Animal Production (U of K) and in Nyala and Bahr Elghazal Universities teaching biochemistry to undergraduate students.
- **June 1995- November 1998:**
DAAD Scholarship for studying Ph.D. course in Biochemistry in Germany, Hannover school of Veterinary Medicine.

- **February 1999:**
Assistant professor in the Department of Biochemistry Faculty of Veterinary Medicine-University of Khartoum
- **August 2003 -2009**
Head of the Biochemistry Department
- **October 2009 to now**
Assistant professor, King Faisal University- Faculty of Science- Department of Chemistry

Teaching experiences

Teaching the following courses:

- Introductory Biochemistry to the first year Veterinary students
- Biochemistry and applied Biochemistry to the Second year Veterinary students
- Advanced Biochemistry and various aspects of Clinical Biochemistry to the M.Sc. students.-Faculty of Veterinary Medicine
- Biochemistry and applied Biochemistry to second year students-Faculty of Animal Production-Khartoum University , and Faculty of Veterinary Medicine- Upper Nile University

Administrative Activities

- 2003 till now: Member of the faculty board
- 2003-2005: Academic supervisor for the third year students
- 1999-2000: Coordinator of the first year student
- 2003 till now: Head of the Department
- 2000-2001: Member of the examination committee
- 2003 till now: Member of the University Senate
- 1999-2003: Member of the departmental board
- 2003 till now: Member of faculty research board
- 2008 till now: Member of the control quality and self-evaluation committee
- 2009 till now: Member of departmental board, Department of Chemistry, Faculty of Science, King Faisal University

Postgraduate supervision and Examination:

A. Supervisor: I was a supervisor for the following M.Sc. students

1. Zeinab Eltom Nasur
Thesis title: The Levels of Some Biochemical Parameters Related to Renal Function in Kalaazar Patients.
2. Hafiz Ahmed Hobiel Ahmed
Thesis title: Blood Glucose, Cholesterol and Blood Pressure in Cigarette Smokers.

3. Ghada Mohammed Elhassan
Thesis title : Cholesterol in Urine as an Indicator of Malignancy
4. Mohammed Ali Elimam
Thesis title: The Effects of the Number of Lactations on the Chemical Composition of Camel Milk.
5. Fatima Hassan Osman
Thesis title: The Effect of the Methanolic Extract of *Anogeissus leiocarpus* on Serum Cholesterol and Triglycerides Levels in Rats.
6. Abosofian Sayeed Osman
Thesis title: The Nutritive Value of Leaves from Some Acacia Trees
7. Nada Mohammed Mahagoub
Thesis title: The Effect of the Methanolic Extract of *Anogeissus leiocarpus* on Blood Glucose and Liver Glycogen in Rats
8. Nabaa Kamal Badawe
Thesis title: The Nutritive Evaluation of Some Acacia Tree Leaves
9. Yasir Ali Elmofti
Thesis title: Effect of Bovine Theileriosis on Hematology and Serum Constituents of Calves
10. Munzir Mohammed Elhag
Thesis title: The Effect of Pregnancy and Pregnancy Complicated by Hypertension on Renal Function
11. Maha Mohammed Khalil
Thesis title: The Effect of Feeding Fresh Crushed Garlic Bulbs on Serum Cholesterol and Triglycerides in Cholesterol Fed Rats
12. Hisham Gafar Widdatalla
Thesis title: Milk Chemical Composition of Pregnant Friesian Cows
13. Hussein Abdalla Elawad
Thesis title: Measurements of Some Trace Minerals Related to Alopecia in Ewes Blood
14. Samia Mahamoud Yousif
Thesis title: Milk Chemical Composition of Nubian and Sanaanen Goats
15. Mohammed Eltigani Osman
Thesis title: Determination of Parathyroid Hormone, Total Calcium and Phosphorus in Patients with Chronic Renal Failure

16. Hala Ahamed Abd Elhadi
Thesis title: Levels of Esterogen , Carcinoembryonic Antigen and Cancer Antigen of Breast in Sudanese Females with Breast Cancer
17. Raga Ahamed Mohammed
Thesis title: The Effect of Bee Stings on Thyroid Function in Hypothyroid Women
18. Shihab Eldin Yousif Suliman
Thesis title: The Effect of Feeding Coriandrum Sativum (Kazbara) Seeds Powder on Plasma Lipids Profile in Cholesterol Fed Rats
19. Hassan Mohamed Ali Mahmoud
Thesis title: Effect of Prednisolone on Thyroid and Gonadotrophic Hormones in Male Domestic Rabbits
20. Abdalkarem Abdallah Ahmed
Thesis title: Protective Effect of Nigella sativa Against Carbon tetrachloride-Induced Toxicity in Rats
21. Nahed Zen Elabedin Idam
Thesis title: Effect of Camel Milk on Plasma Lipids Profile and Glucose level in An Induced-Hypercholesterolemic and Hyperglycemic Rats
22. Sumia Abuelgasim Osman
Thesis title: The hypolipidaemic Effect of the Ethanolic Extract of Alfafa Leaves (Medicago sativa) in Cholesterol Fed Rats
23. Saleh Hassan Shareef
Thesis title: The Effect of Nigella sativa L. Ethanolic Extract on Thyroid Function in Normal and Alloxan-Induced Diabetic Rats.

B. Examiner :
I was an internal examiner for the following M.Sc. students

1. Nour Elhoda Osman
Thesis title: Measuerment of Some Biochemical Parameters Related to Infection with Plasmodium Falciparum Malaria
2. Mohammed Madani
Thesis title: Effects of Subclinical Thyroid Dysfunction on Some Serum Lipid Values
3. Shaza Elyasmeen Yousif
Thesis title: The Effect of Dietry Calcium and phosphorus on the Absorption and Utilization of Zinc and Manganese
4. Rania Tigani Hassan

- Thesis title:** The Effect of Nigella sativa L. and Vitamin A on Selected Blood Values in Rats
5. Gadalla Osman
Thesis title: Levels of Lactate Dehydrogenase, Creatine Kinase and Alpha-amylase in Chronic Renal Failure
6. Tamador Ibrahim
Thesis title: Triglycerides and Cholesterol Levels in Sudanese Patients with Chronic Renal Failure
7. Monjid Ahamed
Thesis title: The Effect of Feeding Nigella sativa L. on the Levels of liver and Serum Triacylglycerols and Cholesterol in Broiler Chicks
8. Ameer Hassan
Thesis title: The Effect of Exogenous Synthetic Oxytocin (Syntocinon) on Weight Gain in Sheep (Ovis aries)
9. Iyman Ali
Thesis title: The Effect of Feeding Nigella sativa L. on the Level of Some Immune Reactions and Blood Proteins in Diabetic Rabbits
11. Rehab Omer
Thesis title: Biochemical Effects of Potassium Bromide On Wistar albino Rats
12. Omiaama Abed Elbagi
Thesis title: The Effect of Feeding Nigella sativa :L. Seeds on Plasma Lipids of Diabetic Rabbits
13. Mohammed Ibrahim
Thesis title: Changes in Hematology, Iron Metabolism and Body Weight in Sheep Fed Commercial Oil of Nigella sativa
14. Mai Mohammed
Thesis Title: The Effect of Different Levels of Crushed Nigella sativa L. Seeds on Glucose, Insulin, Cortisol and Body Weight in Broilers
16. Omer Elfarog Ibrahim
Thesis title: The effect of Tropical Theileriosis on Some Blood Chemistry and Hematology of Cross-bred Calves
17. Ibtihag Hassan
Thesis title: Smoking-Drying Impact on Nutritive Value of Schilbe SPP from Elmawrada Fish Market
18. Haitham Mohammed
Thesis title: The Effect of Ascorbic Acid on the Utilization of Copper and Iron in Chicks (Cockerels)

19. Maha Hassan
Thesis title: The Effect of Feeding Commercial Oil of *Nigella sativa* L. on Lipids Parameters in Sheep
20. Abdeen Mohamed
Thesis title: Effects of Smelling Narcotics on Some Biochemical Parameters in German Shepherd Dogs
21. Ahmed Abdelrahim
Thesis title: Biochemical Investigations on the Tumor Markers and Some Plasma Lipids in Female Cancer Patients
22. Salah Eldeen Yagoub
Thesis title: Haematological and Biochemical Studies of the Healthy and Helminthes Infected Rabbit Fish (*Siganus Rivulatus*) in Sudanese Red Sea
23. Khadija Abd Elaziez
Thesis title: Chemical Composition of Modern and Traditionally Processed Sudanese Sausages
24. Limiaa Awad
Thesis title: Effects of Oral Contraceptives on the Thyroid Function in Sudanese Females
25. Almojtaba Abdalkhalig Ahmed
Thesis title: Investigations of Some Inflammatory and other Biomarkers During Malaria Infection in Children
26. Essam Amar
Thesis title: Hepatoprotective Activity of the Methanolic Extract of *Nigella sativa* in Wistar albino Rats
27. Niamat Osman
Thesis title: The Effect of Clinical and Subclinical Hypothyroidism on Some Lipid Values Among Sudanese Females
28. Gatada AbdElsadig
Thesis title: The Effect of Feeding Different Levels *Nigella sativa* on the Hemogram , Serum Iron and Copper in Broiler Chicks
29. Mai Mohammed
Thesis title: The Effect of Clinical and Subclinical Hyperthyroidism on Some Lipid Profiles Among Sudanese Females
30. Samia Ahmed
Thesis title: Biochemical Effects of Sodium Nitrate in Rats
31. Dalal Faroug
Thesis title: The Hypoglycemic Effects of Cinnamon

32. Siddig Elhassan

Thesis title: Ramification of Breast Cancer on Serum Cholesterol and Tumor Necrosis Factor in Sudanese Females

Conferences and symposia:

- **10-12 March 1996**
The 12th Congress of the German society of Physiology and Biochemistry, Hannover, Germany
- **12-16 March 1998**
The 13th Congress of the German Society of physiology and Biochemistry, Zurich, Switzerland.
- **3-5 January 2006**
African Universities Congressv , Khartoum Sudan, January 2006
- **11-13 May 2010**
The 25th Meeting of the Saudi Biological Society Titled: Nanotechnology in Life Sciences.Incooperation with Camel Research Center at King Abddulla Institute for Nanotechnology at Saud University-Alhasa

Publications:

1. **Elmahdi, B.** Fuhrmann, H. Sallmann,H-P. Engelhardt, W.v. and Kaske, M.(1997). Comparative Aspects of Glucose Tolerance in Camels, Sheep and Ponies. Comp. Biochem. Physiol.A188: 147-151
2. Kaske, **B. Elmahdi**, W.v. Engelhardt, H.P. Sallmann (2001). Insulin Responsiveness of Sheep, Ponies, Miniature Pigs and Camels: Results of hyperinsulinemic clamps using porcine insulin. J. Comp. Physiol. B 171:549-556.
3. Kaske,M. **Elmahdi, B.**, Engelhardt, W.V. Sallmann.H.P.(1999). Insulin Responsiveness in Sheep, Pigs, Ponies, Horses and Camels: a comparative study. South Afri. J. of Anim. Sci. 29,214.
4. Abdel Rahaim A.G., **Elmahdi, B.** Asha E. Faki and Amin, A. E.(2004). Serum Copper and Copper Oxidase (Caeruloplasmin) Activity in the Ostrich(Struthio camelus). The Sudan. J. Vet. Res. 19: 99-101
5. **Elmahdi,B.M**, Elsheikh, O.M. and Elwad, H.A.(2006). Influence of Trace Elements on Health and Reproductivity of Sheep in Eastern African Countries. The African Universties Congress, Khartoum, Sudan, January 2006

6. Elsheikh, O.M, **Elmahdi, B. H.**, Hamed, M. A. R. and Elsrrag, M. S. (2006). Effect of Bee Stings on Thyroid Function in Hyperthyroid Women. First International Bee Conference, Altahadi University –Sert –Lybia 20-22 May 2006
7. Afaf I. Abuelgasim, Rehab, Omer and **B. Elmahdi** (2008). Serrobiochemical Effects of Potassium Bromate on Wistar Albino Rats. Am. J. Food. Technol. 3(5): 303-309
8. Rehab Omer, Afaf I. Abuelgasim and **B. Elmahdi** (2008). Effect of Potassium Bromate on Liver and Blood Constituents of Wistar Albino Rats. Am. J. Food Technol. 3(5): 310-314
9. Afaf I. Abuelgasim, E. A. Omer and B. Elmahdi (2008). The Effectiveness of Nigella Sativa Against Liver Damage in Rats. Res. J. Med. Plant 2 (1): 43-47· 10
10. **Elmahdi, B.**, Maha, M. Khalil and Afaf, I, Abuelgasim (2008). The Effect Of Fresh Crushed Garlic Bulbs (*Allium sativum*) on Plasma Lipids in Hypercholesterolemic Rats. Res. J. Ani. Vet. Sci. 3: 15-19
11. Suliman, SH., **B., Elmahdi** and Afaf I. Abuelgasim (2008). The Effect of Feeding Coriandrum sativum Fruits Powder on the Plasma Lipids Profile in Cholesterol Fed Rats. Res. J. Ani. Vet. Sci. 3: 24-28
12. Mahgoub, N. M., A. H. Mohamed and **B. Elmahdi (2007)**. Effect of Anogeissus leiocarpus Leaf Extract on Blood Glucose Level in Rats. Gez, J. Health Sc. 3(1): 71-73
13. Afaf, I. Abuelgasim, Maha, K. M. Osman and **B. Elmahdi** (2008). Effects of Aloe vera (Elsabar) Ethanolic Extract on Blood Glucose Level in Wistar albino Rats. J. Appl. Sci. Res. 4(12): 1841-1845
14. **Elmahdi. B.**, Hassan, M. and Afaf I. Abuelgasim. Effect of Prednisolone on Thyroid and Gonadotrophic Hormones Secretion in Male Domestic Rabbits. (in press).
15. **Elmahdi, B.** and Nahid, Z. Idam Effect of Camel Milk on Plasma Lipids Profile in Induced-Hypercholesterolemic Rats (submitted)
16. Elmahdi, B. Abdelkareem, A. Effect of nigella sativa on Hematological Values in CCl₄-Treated Rats (submitted)

Abstracts:

1. Elmahdi, B., Fuhrmann, H., Sallmann, H. P., Engelhardt, W. V. and Kaske, M. (1996). Comparative aspects of glucose tolerance in camels, sheep and ponies. In: Physiologie und Biochemie, DVD, Hannover P. 32
2. Kaske, M. Elmahdi, B., Engelhardt, W. v. Sallmann, H. P (1998). Comparative studies of insulin response in camels, sheep, ponies and horses. In: Physiologie und Biochemie, Zurich, P. 38

3. Elmahdi, B., Busche, R., Fuhrmann, H., Engelhardt, W. v. Sallmann, H. P. Kaske, M. (1998). Suppression of norepinephrine induced Lipolysis in camels and sheep adipocytes by equine, porcine ovine and bovine insulin. In: Physiologie und Biochemie, DVD, Zurich, P.13
4. Kaske, M. Elmahdi, B. Engelhardt, W.V., Sallmann, H.P. (1998). Insulin responsiveness in sheep, pigs, ponies, horses and camels: a comparative study. 10th international conference on production diseases in Farm Animals, Utrecht72 ISBN 3-927 857-92-0.