Curriculum Vitae

PERSONAL INFORMATION

Name	:	Osman Mahgoub Gaafar Mustafa (O. Mahgoub
Nationality	:	Sudanese
Date of Birth	:	April, 3rd 1953
Address	:	1605 Dyer Dr, London ON, Canada
Contact Details	:	Tel #: +1-226-984-8905; 00249916051344 (WhatsApp #)
Email Address	:	osmahgob@hotmail.com; osmahgob@gmail.com
Languages	:	Arabic (mother tongue), English (excellent), German (fair)
Web Reference	:	*http//linktr.ee/OsmanMahgoub*

EDUCATION

02/1985 – 05/1988	PhD (Animal Science) Lincoln College, University of Canterbury, New Zealand.
02/1978 – 12/1980	Masters of Veterinary Science (Meat Production), Faculty of Veterinary Science, University of Khartoum, Sudan.
07/1973 – 05/1977	Bachelor of Veterinary Science, Faculty of Vet. Science, University of Khartoum, Sudan
07/1972 – 07/1973	Faculty of Science, University of Khartoum, Sudan.

EMPLOYMENT INFORMATION

05/2024 - Present	Self-employed consultant (Animal Science Consultancy), Ontario, Canada
08/2023 – 05/2024	Visiting Professor, College of Agriculture and Veterinary Medicine Dept. of Integrative Agriculture, Marine Fisheries and Animal Science Program
05/2019 – 07/2023	Self-employed Consultant (Animal and Veterinary Sciences), Khartoum, Sudan
05/2009 – 07/2019	Professor, Department of Animal & Veterinary Sciences, College of Agricultural & Marine Sciences, Sultan Qaboos University, Sultanate of Oman
09/2013 – 09/2017	Assistant Dean for Training & Community Services, College of Agricultural and Marine Sciences, Sultan Qaboos University, Sultanate of Oman
09/2004 – 09/2008	Head, Department of Animal and Veterinary Sciences, College of Agricultural and Marine Sciences, Sultan Qaboos University, Sultanate of Oman
06/1999 – 05/2009	Associate Professor, Department of Animal and Veterinary Sciences, College of Agricultural & Marine Sciences, Sultan Qaboos University, Sultanate of Oman
03/1999 – 09/2002	Assistant Dean for Extension, College of Agricultural and Marine Sciences, Sultan Qaboos University, Sultanate of Oman

12/1995 – 06/1999	Assistant Professor, Department of Animal and Veterinary Sciences, College of Agricultural and Marine Sciences, Sultan Qaboos University, Sultanate of Oman
04/1989 – 12/1995	Lecturer, Department of Animal and Food Sciences, College of Agricultural and Marine Sciences, Sultan Qaboos University, Sultanate of Oman
02/1985 – 05/1988	PhD student, Lincoln College, University of Canterbury, New Zealand
09/1981 – 06/1984	Lecturer, Dept. of Zoology, College of Sci., King Saud University, Riyadh, Saudi Arabia
06/1977 – 06/1981	Part-time consultant - Savannah Agricultural Company, Khartoum, Sudan
02/1978 – 12/1980	MVSc. student, Faculty of Veterinary Science University of Khartoum, Sudan
06/1977 - 01/1978:	Veterinary Officer, Dept. of Animal Health, Ministry of Agriculture, Sudan

INSTRUCTIONAL EXPERIENCE

A. United Arab Emirates University (08/2023 – 05/2024)

No.	Course Code	Course Title	Term
1	ARAG319	Anatomy & Physiology of Farm Animals	Fall 2023
2	ARAG318	Camel Management	Fall 2023
3	ARAG205	Introduction to Fish & Animal Science	Fall_2023
4	ARAG205	Introduction to Fish & Animal Science	Spring_2024
5	ARAG459	Issues in Animal Protein Production	Spring_2024
6	ARAG329	Organic Animal Production	Spring_2024
7	ARAG330	Principles of Animal Sciences	Spring_2024
8	ARAG434	Reproductive physiology	Fall_2023
9	ARAG440	Seminar in animal science	Fall_2023
10	ARAG440	Seminar in animal science	Spring_2024
11	ARAG485	Senior Project	Fall_2023
12	ARAG432	Sheep and goat production	Fall_2023

B. Sultan Qaboos University (04/1989 – 07/2019):

During my tenure of thirty years at Sultan Qaboos University (SQU) in the Sultanate of Oman, the College of Agricultural & Marine Sciences (CAMS) as well as the Department of Animal & Veterinary Sciences (AVS) has significantly grown and revised strategic directions. I actively participated in the planning and developing of academic programs throughout these growing and changing years. The most important program I had taken part in its planning and inauguration was the Veterinary Technology program which had just opened this year with the aim to train Omani veterinary technologists to serve as supportive workers in the animal and human health sector. I have developed curricula for more than 10 courses. I taught or contributed to the teaching of more than 15 courses. My average teaching load was over two courses per semester through my entire service with SQU. I participated in training all Omani graduates from AVS since its inception. They now represent the majority of the working force in this area of specialization in the country. Student evaluations for my courses have been favourable. Throughout the years I advised hundreds of students including freshman students with

many language problems. At SQU I developed curricula, compiled course notes, taught or contributed to teaching of about 15 courses in AVS and other departments in CAMS. My teaching Load average was over 2.0 courses per semester. These courses included:

No	Course Title	Course Code	Teaching Term	Role
1	Dairy & Beef Production	ANVS4009	Fall 2011	Instructor
2	Horse Management & Care	ANVS4011	2009-2019	Instructor
3	Veterinary Parasitology	ANVS2004	2009-2017	Instructor
4	Introduction to Veterinary Technology	ANVS2002	Fall 2010, 2018	Instructor
5	Animal Health	ANVS3002	1989, 2018	Instructor
6	Sheep & Goat Production	ANVS4006	1989 - 2019	Instructor
7	Dairy & Beef Production	HUSB4002	1989-1995	Instructor
8	Camel Husbandry & Physiology	ANVS4009	1993-2019	Instructor
9	Anatomy & Histology of Farm Animals	ANVS3001	1993-2006; 2016	Instructor
10	Introduction to Animal Science	ANVS2001	2002-2004	Instructor
11	Meat & Fibre Production	HUSB4007	1994, 95	Instructor
12	Animal Sciences Seminar	ANSC3002	1994 - 2008	Instructor
13	Food Science Seminar	FOOD3002	1995, 96, 97	Instructor
14	Microcomputers in Agriculture	COMP2001	1994, 99, 2008	Coordinator
15	Animal Science Special Problems	ANVS4900	1992 - 2017	Instructor
16	Extension Methods & Techniques	ECON4500	Fall 1994	Co-Instructor
17	Fundamentals of Nutrition	ANVS3105	2016-2019	Instructor
18	Impacts of Agric. on Arid Environments	ENVR 6071	1996	Co- Instructor*
19	Advanced Growth and Development	ANVS6006	1999-2006	Instructor**

* Postgraduate course, College of Science; **Postgraduate course

B. Course material

I compiled course notes for the following courses: Horse Management and Care (ANVS4011); Veterinary Parasitology (ANVS2004); Animal Health (ANVS3002); Sheep and Goat Production (ANVS4006); Beef Production (HUSB4002); Anatomy & Histology of Farm Animals (ANVS3001); Meat and Fibre Production (HUSB4007); Advanced Growth and Development (ANVS 6006); Camel Physiology and Husbandry (ANVS4004, jointly).

C. Teaching philosophy

My approach has been directed towards informing students on the basics as well as the latest developments in a field. I put a lot of emphasis on issues related to local conditions and factors as well as hands-on training. Practical classes make up a major component of courses as well as field trips, assays and assignments. I have started using web learning in teaching and I have already put two of my courses (Sheep and Goat Production, and Horse Management) as Moodle on line courses.

D. Teaching Evaluations

Since their introduction on the College of Agriculture level (1994) and Sultan Qaboos University level (1996), I had good teaching evaluations by my students in all my courses (course evaluation table attached).

E. Students Advising

I advised many students throughout my career at SQU especially first year students whose English language is weak. I always had an open-door policy for students and looked into their wide range of problems and gave them the support they needed.

F. Field Trips

I organised the annual departmental field trips and accompanied students to various regions of Oman such as Dhofar, Eastern and Interior.

G. Curriculum Development:

1. Animal Science
   I played a major role in establishing and improving the Animal Science major degree plan between 1989 and 2010. That included initiating and designing new courses, writing course outlines and amendment of degree plan.
2. Veterinary Technology Degree
   In collaboration with colleagues in the Department of Animal and Veterinary Sciences, I contributed to the design of a Veterinary Technology Degree Program to train students to serve both in animal human health sector. As a HoD, I helped obtaining staff and equipments for the new program.

H. Graduate Project Supervision

Postgraduate studies at SQU have been introduced in the mid-90s with no approved PhD program in the department till recently. In AVS the MSc program started in 1999. I contributed to planning and developing the program and supervised and co-supervised 14 master students and seven PhD students. I also served as an examiner for many master students in the college and SQU. I also supervised many undergraduate student projects under Special Problems Course.

The following postgraduate students have been trained during my service in SQU:

Masters of Science:

1. Zaher Humaid Rashid Al-Attabi. (2002). "Ripening Profile of goat cheese produced from pasteurized milk". (Co-supervisor)
2. Salah Saeed Hamoud Ali Al-Mahdhoury. (2003). "Nutritional ecology of the Arabian Oryx (O*ryx leucoryx*) in Jiddat Al-Harasis Sanctuary in the Sultanate of Oman.". (Co-supervisor)
3. Nasser Tabook. (2004). "Effects of enzyme supplementation on the nutritive value of date fiber diets for broiler chickens". (Supervisor)
4. Bader Ali Al-Qamshooie. (2006). "Study on the relationship between ascorbic acid supplementation and heat stress on poultry maintained in open-sided housing. (Co-supervisor),
5. Abdullah Salman Al-Abri. (2009). "Effects of various levels of liquefied fish silage on performance and meat quality of Omani sheep. (Supervisor),
6. Mariam Al-Farsi. (2009). "Effects of liquefied fish silage on performance and meat quality characteristics of broiler chicken. (Supervisor).
7. Yaqoub Al-Hosni. (2009). "Effects of electric stimulation on camel meat". (Co-supervisor)
8. Saeed Shannan Al-Khalasi. (2009). " Health and performance of Omani sheep fed salt-tolerant sorghum (*Sorghum bicolor*) forage or Rhodes grass (*Chloris gayana*)". (Supervisor).

9. Nasser Al-Broumi. (2010). "Effect of tea and coffee on bioavailability of iron in various types of meats. (Graduated with a PG diploma). (Co-supervisor).
10. Iman Al-Hinai. (2010). "Effect of dates and honey on bioavailability of iron in various types of meats. (Co-supervisor).
11. Amal H. Al-Kharousi. (2015). "Evaluation of Omani camel performance under intensive management for meat production and quality. (Co-supervisor).
12. Nasser Al-Areimi. 2011. "Genetic characterization and productive traits of Omani Desert Goat. Completed. (Supervisor).
13. Kaadhia Al-Kharousi. (2012). "Effect of thermal processing and enzyme supplementation on the nutritive value of local agricultural by products as feed ingredients in chickens' diets". (Co-supervisor).
14. Karima Rashid Al-Sinani. (2016). "Molecular characterization of Omani cattle". (Supervisor).

Doctorate (PhD):

1. Bader Ali Al-Qamshooie. (2013). "Evaluation of genetic make-up of Omani poultry breeds" PhD Program for Agricultural Sciences (IPAG) at George-August University of Gottingen, Germany (Co-supervisor),
2. Saeed Shannan Al-Khalasi. (2018). "Use of raw or processed *Prosopis juliflora* pods for feeding Omani sheep". PhD, University Pretanian Malaysia (Co-Supervisor).
3. Nasser Al-Areimi. (2019). "Genetic characterization and productive traits of Omani Desert Goat. University of Porto, Portugal (Co-Supervisor).
4. Dickhoefer U. (2009). "The contribution of rangeland vegetation to the nutrition of goats in the traditional farming systems of Al-Jabal-Al-Akhdar, Oman". PhD student from the University of Kassel, Germany (Co-Supervisor).
5. Amal H. Al-Kharousi. (2022). "Detection of Trypanosoma infection in Dromedary camel by using different diagnostic techniques in Northern Oman" (Co-Supervisor).
6. Ahmed Al-Souti. (2010). "Evaluation of Chicken Feather Meal and Macroalgal Meal as a Potential Replacement for Fish Meal in Formulated Feed for Gilthead Seabream (*Sparus aurata*)" Co-Supervisor.
7. Ramadan, M.R. (2020). "Feed digestibility, digesta passage and faecal microbial biomass in desert-adapted goats exposed to mild water restriction". University of Kassel, Germany. (Co-Supervisor).

I. Special Problems Course

During my work in the Department of Animal and Veterinary Sciences I have supervised 15 senior students in various aspects of animal science.

J. Previous Instructional Experience:

January 1986 - July 1988

As a laboratory tutor, I instructed Agriculture students at Lincoln College, Canterbury, New Zealand in Animal Science practical and computing classes, which covered: Spreadsheets, Word processing and Data base.

September 1981 - June 1984

I taught the following topics to the premedical and zoology major students in the Dept of Zoology, College of Science, King Saud University: Parasitology (Zoology-major

students); General Biology including Physiology and Haematology (premedical students).

February 1978 – December 1980
I taught practical classes to under-graduate students in the Dept. of Animal Husbandry, Faculty of Veterinary Medicine, University of Khartoum for: Introductory Animal Husbandry, Animal Nutrition, Milk Production and Meat Production.

RESEARCH EXPERIENCE

A. Background and Skills

Throughout my career, I planned, executed and published fundamental and applied research in various capacities and locations. My major research area is meat production from farm animals. That covered normal and manipulated growth and development including factors affecting it, such as nutrition, breed and sex. Research on nutrition and growth included compensatory growth, determination of nutritional requirements of tropical animals, and use of low-quality feeds. Effects of sex included sexual dimorphism, gonadectomy and use of growth promotants. Effects of breed on growth included studies on breeds of different sizes. It also included, use of agricultural by-products for feeding of livestock; evaluation of breeds and impact of animals on the environment.

Some of the major research skills I acquired during my research life include: use of comparative slaughter techniques to evaluate carcass composition; complete carcass dissections; chemical analytical methods; use of ultrasound to predict muscle and fat composition; use of X-ray to assess skeletal growth; histological procedures to evaluate muscle and skeletal growth; evaluation of use of growth promotants in meat animals; surgical and non-surgical procedures for gonadectomy in male and female farm animals; in vivo and in vitro methods for evaluation of livestock feedstuffs; techniques for in vitro evaluation in ruminant nutrition. To complete my early work on breed evaluation, I became involved in breed characterization using molecular techniques. I was able to establish a molecular biology laboratory at AVS, CAMS which is capable of isolating DNA and evaluating it, running PCR and gel documentation as well as other techniques.

B. Research Philosophy and Approach

My research was mostly of an applied nature geared towards solving livestock production problems responding to local farmer's needs. It is also concerned with environment and sustainability of national resources. At SQU, I pursued a research program phased over an extended period. It was designed in a logical sequence to investigate factors that hinder animal production in the country and providing solutions for them. Within this applied research, aspects of fundamentals of knowledge and up-to-date issues had been investigated.

My initial research effort at SQU was to identify factors that might have potential to improve meat production from native animals. Initial research work was focused on the evaluation of performance of Omani native animals for meat production under various management systems. Our research demonstrated that improvement in management systems has enhanced the performance of Omani livestock. The second stage of research was to determine the nutritional requirements of native livestock to avoid relying on information that extrapolated from other breeds. We were able to determine the energy and protein requirements of Omani goats and sheep. Identification

of readily available local feed resources is economically important for Oman as livestock production in the country mainly depends on expensive and imported feeds. Our research aimed to investigate the prospects of using local range plants and agricultural by-products in feeding Omani livestock. We also aimed to evaluate the effects of using low quality feeds on animal health. To widen the scope of our work on native breed evaluation we have been awarded an HM project on identification, characterization and conservation of local animal genetic resources.

C. Team work and collaboration:

I developed a teamwork approach within the department and the college as well as collaborative research with scientists outside CAMS. This enabled strengthening our research programs by allowing investigating more detailed aspects of research problems. An example is collaboration in the area of meat quality assessment, stress and electrical stimulation (Dr I.T. Kadim); effects of nutrition on health (Prof. E.H. Johnson); poultry meat production and quality (Drs I.T. Kadim and W. Al-Marzooqi). Collaboration with other departments included taking part in three HM projects in which we studied the role of animals in Al-Jabal Al-Akhdar ecosystem; evaluating the effect of fodder grown under high saline conditions on sheep health and performance; and use of date palm by-products for feeding Omani livestock.

Our research was extended beyond SQU in collaborate research bodies outside SQU including the Omani Ministry of Agriculture and Fisheries, Petroleum Development of Oman (PDO), Muscat Municipality and other public and private sector bodies. Our international collaboration included links with researchers in the universities of Kassel and Hohenheim in Germany; University of Catania in Italy; Washington State University (USA) and University of Porto in Portugal.

D. Research Activities:

Our research activities in the Dept. of Animal & Veterinary Sciences at Sultan Qaboos University included:

1. Identification, characterization and conservation of local animal genetic resources.
2. Evaluation of liquefied fish silage for ruminant and poultry feeding.
3. Study of effects feeds containing antinational factors such as tannins and polyphenols on structure and function of the gut and essential organs
4. Evaluation of clinical biochemistry status of animals fed feeds high levels of antinutritional factors.
5. Effect of transport on meat quality and blood chemistry of Omani sheep.
6. Effect of heat stress and organic acid on gut morphology of broiler chicken.
7. Meat quality characteristics of commercial and native Omani chickens.
8. Influence of low levels of dietary cobalt on muscle metabolism of goats.
9. Bioavailability of heme and non-heme iron in various types of meats.
10. Electrical stimulation and meat quality of livestock
11. Histo-biochemistry of muscles.
12. Characterization of genetic resources in Omani animals.

E. Research output:

During my tenure with SQU I was a principal or co-investigator of 20 internally and externally funded research projects (See attached table). The funding for all projects I was involved with reached a total of R.O. 516000 (USD 1,300,000). This is substantial considering a relatively new university without a long research history. Details of research projects and associated funding are detailed in the attached CV. These projects

enabled to generate many publications and conference presentations as well as supporting many postgraduate and special problem students.

In addition to economic and social contributions, my research effort resulted in numerous publications. These included over 130 refereed papers that have been published in international journals; 85 conference presentations in addition to technical reports and book chapters. The majority of the publications in the area of animal science in Oman came from our laboratory. Our research has been highly regarded at SQU, Oman and international scientific communities. I received two best presentation awards at two international conferences.

F. Major Research Impact at SQU:

Oman is an arid country facing a serious shortage of fresh water. Scientific research in the country was lagging behind especially in the area of animal science. Since I joined SQU, I provided leadership and initiated one of the first research programs in the university. My research at SQU fell very well within the national goals and policies declared by Omani leadership for the agricultural, environmental and economic sectors. My research produced findings, which are extremely important to the animal production sector in the Sultanate.

Our laboratory was the first to define the meat production characteristics of Omani native breeds. All research-followed suit in this area was based on our fundamental findings. My research aimed to identify factors that have potential to improve meat production from Omani animals. This is instrumental for the Sultanate's endeavour for attaining partial or complete self-sufficiency. Our research also determined for the first time the nutritional requirements of native animal to avoid relying on information extrapolated from foreign breeds. We were also able to identify concentrate and roughage feeds from local sources, which would reduce the cost of production and consequently increase farmer's financial returns. These findings are extremely important for Oman and countries in the arid region especially under the current international conditions of food crisis and soaring animal feed prices. We have also evaluated the effects of using low quality feeds on animal health. Our findings in this area provided significant information for the livestock industry and animal welfare on the national and international levels. Due to our contributions, Sultan Qaboos University is now regarded as a well-recognized international center of research on small ruminant's, bovine and camel meat production and quality. An important achievement, which came as an appreciation of our work on characterization of local Omani animal breeds, was the award of an HM project on identification, characterization and conservation of local genetic resources. The project aims to use molecular approaches to characterize Omani cattle, goats and poultry genetical background. It is carried out with a team including national and international collaborators.

One of my research significant outputs was strengthening CAMS and SQU by equipping various laboratories and training staff. This included:

1. Establishing and fully equipping a complete molecular biology laboratory.
2. Establishing meat animal growth and carcass assessment facilities in AVS and Agriculture Experiment Station (housing, carcass grinder, etc.) and providing technical training of Omani staff.
3. Procurement of major equipments from research grants (nitrogen analyser, viscometer, electric stimulator, carcass grinder)
4. Establishing facilities and training staff and students on in vitro feed evaluation using gas production techniques

5. Construct animal pens equipped with feeders and drinkers, which provided infrastructure for animal research at AES.
6. Obtaining a camel herd for carrying out research on physiology and meat production and science at the University Agricultural Experiment Station (AES).
7. Coordinating efforts to bring in four horses at the AES to be used for teaching and research.

One of our research interests also aimed to study the traditional animal production systems practiced by local communities. In this aspect, we planned and executed a project that studied the patterns and cost of goat production in the Jebel Akhdar region. Currently we are studying in details the effects of low-quality feeds that contain high levels of anti-nutritional factors such as tannins on tissue and cellular levels as well as on gut enzymatic activity. This entails use of electronic microscopy to study microstructure effects of diet on structure of the gut, kidneys and liver. It also entails use of immunohistochemical staining for proteins, hormones, and enzymes, fatty acids binding proteins, amyloids, and apoptosis proteases.

G. International Intellectual Interactions:

I have been actively involved with the following networks:

1. Has been serving as an Associate Editor of the international Journal of Applied Animal Science for many years.
2. A member of the "International Digital Organization for Scientific Information" (IDOSI) (www.idosi.org) E-mail : idosi@idosi.org / idosi.editor@gmail.com 3.

3. A member of the "Animal Production and Fisheries Science Network'; (e-mail; fishrs@gmail.com, http://www.afps.ws/mg/index).

4. A founding member of the upcoming "Small Ruminant Production and Health in the Arid and Semi-Arid Network" proposed at the conference held in Muscat and is approved by SQU.

5. I have been a country representative for Oman at the International Goat Association for many years

I have been regularly invited to be a referee of manuscripts for international journals and research councils including:

1. Meat Science (Official journal of the American Meat Science Association)
2. Livestock Production Science (Official Journal of the European Association of Animal Production)
3. Journal of Applied Animal Science
4. New Zealand Journal of Agricultural Research (Royal Society of New Zealand).
5. Animal Feed Science and Technology (Elsevier)
6. Small Ruminant Research (Official Journal of the International Goat Association)
7. Asian Australasian Journal of Animal Science (Official Journal of the Asian-Australasian Association of Animal Production Societies AAAP)
8. Agricultural Sciences (SQU)
9. Ministry of Agriculture and Fisheries – Agriculture Bulletin (Sultanate of Oman)
10. Kuwait Research Council

ENVIRONMENTAL ISSUES:

Oman is a leading country worldwide in awareness of environmental issues. Throughout my stay at SQU I devoted a special attention to research, services and teaching of issues related to environment. These are listed below:

1. A member on the University committee for Establishment of SQU Centre for Environmental Studies (1999).
2. A committee member and presented a paper in the Desertification conference in Dhofar, Oman in 2000.
3. An investigator on a subproject on animal grazing in an HM supported project on Al Jabal Al Akhdar ecosystem.
4. A member of the scientific committee of the international conference on desertification organized by College of Arts (SQU) 2004.
5. A member of the research team on the HM project on management of soils and waters affected by salinity.

SCHOLARSHIPS & AWARDS

1. University of Khartoum Studentship for 2 years to study for a Master of Veterinary Science degree (1978-1980).
2. Best Scientific Oral Presentation Award of the Asian-Australasian Association of Animal Production Societies, Animal Science Congress, Bali, Indonesia 11- 16 July 1994.
3. Scholarship to attend 8th World Conference on Animal Production, Seoul, Korea (28th June-4th July 1998).
4. Best Paper Award - 8th World Conference on Animal Production, Seoul, Korea (28th June4th July 1998).
5. CAMS Best Researcher (1998)
6. Distinguished Service Award - College of Agriculture - SQU (1999, 2006)
7. Award of Distinguished Service – International Goat Association (2008)

SERVICES A. COMMITTEES

National

1. Joint committee with the Ministry of Education to develop curriculum for Agriculture Teachers Colleges (November-December 1992)
2. Joint committee with the Ministry of Commerce and Industry to set the standards of GCC countries animal feeds (1994).
3. Joint Committee with the Ministry of Agriculture and Fisheries (Oman) to evaluate studies on effects of camels on the environment (1999)
4. Member of committee to prepare a national report on animal genetic resources (Ministry of Agriculture 2003).
5. Member of committee to establish animal and plant genetic resources (TRC) 20102019.

Sultan Qaboos University

1. Establishment and serving on the University Committee of Animal Ethics (1991 - 2019)
2. University committee on Autonomous Village Project (1993)
3. Committee to establish a Centre for Environmental Studies at Sultan Qaboos University (1999).
4. Committee to establish a Centre for Community Services and Continuing Education.
5. University Committee for Appeals against UAPC (2011)

6. University Academic Promotion Committee (2012-2013; 2018-2019)
7. SQU Academic Council (2013/2014)

College of Agricultural & Marine Sciences

1. College committee on study of Traditional Farm Practices in Oman (1994)
2. Committee on Job opportunities in Agriculture (1993- 1997)
3. College of Agriculture Board (1994 – 1998, 2000-2008)
4. College Promotion Committee (1999-2002)
5. Chair - Students Recruitment Committee (1999-2000)
6. Translation Committee (1998 - 2008)
7. Sports Committee (1993-2000)
8. Organizing Committee for AgExpo 1998
9. Editorial Board - Journal of Agricultural Sciences - College of Agriculture, SQU (1999)
10. Computer Committee (1999)
11. Research Committee (2004- 2008)
12. College Executive Committee (2004-2008)

Department of Animal & Veterinary Sciences

1. Departmental Board (1989 – present)
2. Member of the Organizing committee of the International Conference on Animal Production in Hot Climates (1995).
3. Task Force on Sheep and Goat facility improvement (1996)
4. Chair of the Organizing committee of the International Conference on Small Ruminant Production and Health in Arid and Semi-Arid Regions (2007).
5. I have been serving as the coordinator for the department's seminar series since its start in 1993 to 2019.

B. OTHER SERVICES

1. Provided on-job training for Omani technicians in areas of animal handling, measurements of live-weight growth, slaughtering of farm animals, carcass analysis techniques, and data entering and analysis.
2. Provided part-time veterinary services to the Sultan Qaboos University Agricultural Experiment Station (1989-1996)
3. Coordinated the Department seminar series (1992 - 2018)
4. Served as the College's sports coordinator (1990 to 1998)
5. Provided Arabic/English translation at the Dept, college and university levels.
6. Purchasing and managing horses at AES (2010-2018).

EXTENSION AND COMMUNITY SERVICES

I have always believed that applied research is more suitable for the agricultural sector in the developing countries. Therefore, since I joined SQU, I was involved in extension activities that aimed to strengthen ties with local farmers and industry with the aim to introduce new technologies to them. My activities at SQU included taking active part in open days, meetings with farmers and extension workers and appearing and publishing in the press. I helped establishing strong links with many public and private sector bodies. For example, I contributed to programs of presentation in three major cities of Oman (Muscat, Sohar and Salalah) in collaboration with Oman Chamber of Commerce on animal and veterinary sciences programs. I also organized workshops for farmers and

the industry. I contributed to an important program organized by the Ministry of Agriculture of training Omani farmers and their families on modern farming procedures.

I was appointed as **Assistant Dean of Extension** in CAMS from March 2000 to September 2002. I took responsibility to establish and carry out the novel activities of this new office. My responsibilities included: assisting the dean on extension issues; coordinating training of college staff; coordinating student's internship programs; coordinate official's visits to the college, organizing open days. The open days of CAMS included an annual College Open Day, Farmer's Day and Fisherman's Day. One of my responsibilities at the ADE office was serving as a secretary for the College Board throughout my terms. That included preparing agenda, following decisions and preparing minutes. One of my major achievements in the ADE office was the compilation of the 1st and 2nd issues of the Annual Extension Report. These reports highlighted the extension activities of faculty and staff of the college and departments. It was useful to justify the quota of academic positions for the college. These reports were widely distributed internally and externally.

CONSULTANCIES

1. Evaluated the Animal Production Sector in Chile's largest farm (Hacienda Rupanco) December 1988 for the SAAR Foundation, 555 Grove Street, Herndon, Virginia 22070, USA.
2. Investigations on drug and anabolic agent residues in meat products – Muscat Municipality (2003).
3. Assessment of Rahab farm forage production Petroleum Development of Oman (2004).
4. Co-owner of the "Animal Science Consultancy" (www.animalscienceconsultancy.com)

MEMBERSHIPS OF SCIENTIFIC ORGANIZATIONS

1. British Society of Animal Science (past member)
2. International Goat Association (Country Representative for Oman)
3. New Zealand Society of Animal Production (past member)
4. Sudan Veterinary Council
5. Sudan Veterinary Association

REFERENCES

1. **R.W. Purchas**
   Professor Retired, Institute of Food, Nutrition and Human Health, Massey University, Palmerston North, New Zealand
   Email:
   Linkden: https://www.linkedin.com/in/roger-purchas-2a683913/
2. **Christopher D. Lu**
   Professor Retired, University of Hawaii at Hilo
   Email: chrislu@hawaii.edu
   Linkden: https://.linkedin.com/in/christopher-lu-18ba5329
3. **Dr. Albano Peji Pereira**
   Universidade do Porto Faculdade de Ciencias, Portugal

Email: albanobp@gmail.com
Linkden: https://.linkedin.com/in/albano-Beja-pereira-57237b19

4. **Dr. Slim Zekri**
Professor, Sultan Qaboos University
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Linkden: https://.linkedin.com/in/dr-slim-zekri-8a55621a

Web Reference **:** *http//linktr.ee/OsmanMahgoub*

Research Gate Address:
https://www.researchgate.net/profile/Osman_Mahgoub
Google Scholar Address:
https://scholar.google.com/citations?user=Kr1Npa0AAAAJ&hl=en
Research.Com Address:
https://research.com/u/osman-mahgoub

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Publications:

A. REFEREED PUBLICATIONS:

1. Muzammil Atta, Osman Mahgoub, Isam, T. Kadim, Saleh J. Al-Marri and Imad, M.T. Fadlalla. 2024. The impact of feeding date palm by-product on the reproduction of Awassi ewe in the Qatari environment. Asian Journal of Agriculture and Rural Development. 14, (2): 72-78. (http://www.aessweb.com/journals/5005).
2. Amal Hamed Al-Kharusi, Elshafie Ibrahim Elshafie, Osman Mahgoub, Senan Baqir, Fatma Mohammed Al-Sheriany, Mohammed Al-Yaaqoubi, Kawakob Nasser Al-Dughaishi, Jeehan Salim AlHinai, Jumanah Al-Musharfi and Derek Roberts. 2023. Seroprevalence, risk factors and haematology of *Trypanosoma evansi* in Dromedary camels in Northern Oman. Journal of Camelid Science 16, 30- (https//www.isocard.net/en/journal).
3. Amal Al-Kharusi, Elshafie Ibrahim Elshafie, Senan Baqir, Asim Faraz, Aliya, Al-Ansari, Pamela Burger, Osman Mahgoub, Kaadhia Al-Kharousi, Halima Al-Duhli, Mohammed Al-Sinani, Raqiya AlHatali and Derek Roberts. 2022. Detection of Trypanosoma infection in Dromedary camel by using different diagnostic techniques in Northern Oman. Animals 12, 1348. (https//doi.org/10.3390/ani12111348).
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7. Al-Araimi, Nasser Ali, Raed Al-Atiyat, Agusto Luzuriaga-Neira, Osman Mahgoub Gaafar, Isam Kadim, Waleed Al-Marzooqi, Hamza A. Babiker, Mohammed N. Al-Kindi, Aliya Al-Ansari, Ali, H. Al-Lawati and Albano Beja Pereira. 2019. Genetic structure of Omani goats reveals admixture among populations from geographically proximal sites. Small Ruminant Research 178 (https://doi.org/ 10.1016/j.smallrumres.201907/005.
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1. **Mahgoub, O.** (1980). Use of desert grass Humra for feeding Sudanese Desert sheep. University of Khartoum, Sudan (MVSc).
2. **Mahgoub, O.,** (1988). Studies in normal and m manipulated growth of sheep with special reference to skeletal growth. Lincoln College, University of Canterbury, New Zealand (PhD).

Research Grants Funded at Sultan Qaboos University - Professor Osman Mahgoub Gaafar

NO	Title	Project #	Role	Duration	Fund		Fundi
					(R.O)	(USD)	
1	Studies in growth and development of Omani meat animals	*AGANIM9610*	PI	1996 -1998	5,100	13,212.44	SQU
2	Effects of processing on the quality of local dried fish sardines and its utilization as animal feed.		PI	1997 2003	60,000	155,440.41	Minist Fisheri Fund
3	Utilization of local materials in feeding Omani livestock	*IG/AGR/ANSC/99/03*	PI	1999-2001	7,500	19,430.05	SQU
4	Assessment of mineral deficiencies and strategies of mineral supplementation in the Sultanate of Oman.	*IG/AGR/ANSC/99/01*	Co-I	1999-2002	6,500	16,839.38	SQU
5	Analysis of traditional animal production systems in Oman	*IG/AGR/ECON/99/01*	Co-I	1999-2002	6,500	16,839.38	SQU
6	Evaluation of carcass and meat quality of Omani sheep and goats	*IG/AGR/ANSC/01/02*	Co-I	)03	5,100	13,212.44	SQU
7	Determination of commercial meat products quality in the Sultanate of Oman	*IG/AGR/ANSC/02/02*	PI	2002-2005	8,650	22,409.33	SQU
8	Chicken and meat products safety in the Sultanate of Oman	*AGR/ANVC/02/01-01*	Co-I	2002-2004	3,100	8,031.09	Musca
9	Study of relationship between ascorbic acid supplementation and heat stress on poultry maintenance in open sided houses.	IG/AGR/ANSC/03/01/4	Co-I	2003-2004	9,700	25,129.53	SQU
10	Improvement of date palm production and dates quality in the Sultanate of Oman	*SR/AGR/PLNT/01/01*	Co-I	2000-2004	109,238	286,000.00	HM
11	Jebel Akhdar Initiative- Conservation and sustainable development in a fragile arid mountain ecosystem.	*SR/AVP/CESR/04/07*	Co-Ir	2004-2007	65,850	170,595.85	HM
12	World-wide patterns of genetic diversity of livestock species		Co-I	2004-2007			LECA- Popula Biodiv Joseph

13	Use of various levels of fish silage for feeding Omani sheep and goats (PI)	*IG/AGR/ANVS/05/01*	PI	2004-2006	6,000	15,544.04	SQU
14	Evaluation of alternative cheap local energy and protein sources for feeding Omani and commercial poultry strains in the Sultanate of Oman. (Co-PI)	*IG/AGR/ANVS/05/03*	Co-Ir	2005-2007	10,000	25,906.74	SQU
15	Bioavailability of iron in various types of meats in the Sultanate of Oman	*IG/AGR/ANVS/06/02*	Co-I	2006-2008	10,000	25,907.00	SQU
16	Management of salt-affected soils and water for sustainable agriculture	*SR/AGR/SWAE/06/01*	Co-I	2006-2008	95,000	246,113.99	HM Qab Fund
17	Evaluation of Omani camel performance under intensive management for meat production and quality (PI)	*IG/AGR/ANVS/08/01*	PI	2008-2011	12,000	31,088.08	SQU
18	Effect of thermal processing and enzyme supplementation on the nutritive value of local agricultural by products as feed ingredients in chickens diets. (Co-PI)	*IG/AGR/ANVS/08/02*	Co-I	2008-2011	11,500	29,792.75	SQU
19	Performance evaluation of a solar tunnel dryer for drying of fishes and dates in Oman (Co-PI)	*IG/AGR/SWAE/08/01*	Co-I	2008-2011	4,350	11,269.43	SQU
20	Characterization, evaluation and conservation of indigenous animal genetic resources in the Sultanate of Oman (PI)	*SR/AGR/ANVS/08/01*	PI	2008-2011	80,000	207,253.89	HM
21	Potential sources of soil-borne plant fungi and bacteria into farms of Oman	*SR/AGR/CROP/10/01*	Co-I	2010-2013	87,500	226390.68	HM
22	Utilization of Prosopis juliflora for feeding Omani livestock	*IG/AGR/ANVS/12/2*	PI	2012-2015	8,850	22897.800	SQU
23	Identification of camel meat quality parameters using proteomics	*IG/AGR/ANVS/12/1*	Co-PI	2012-2015	10,250	26520.05	SQU
24	Determination of chemical contaminates of meat and meat products which threatens human health sold in Oman		Co-PI	2011-2014	164,500	425614.48	Agricult Develop
25	Design and development of biologically active artificial bone with precise anatomical shapes and sizes	*SR/MED/SUR/13/01*	Co-I	2013-2015	95,000	245795.60	HM
26	A novel molecular approach to study brucellosis in cattle, sheep, goats and camels in the Sultanate of Oman	*SR/AGR/ANVS/14/01*	Co-I	2014-2017	95,000	245795.60	HM
27	Use of vegetable waste for feeding Omani livestock	G/AGR/ANVS/15/01	PI	2015-2018	10,500	27166.882	IG SQU
28	Effect of feeding palm fronds and date waste on the productive and reproductive performance of Awassi sheep		Co-I	2013-2016	151,882	392967.65	Qatar Fo investig
	Total				1,139,570	2,953,165	

- output = publications (refereed and conference) + postgraduate students
- PI: Principal Investigator; Co-PI: Co-Principal Investigator; Co-I: Co-Investigator
- HM: HM Sultan Qaboos B. Saeed Research Fund