

CURRICULUM VITAE

Prof. SULIEMAN MOHAMED EL SANOU

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Personal Data

NAME: SULIEMAN MOHAMED EL SANOUSI
SEX: Male
DATE OF BIRTH: 09 November 1942 (Omdurman, Khartoum)
NATIONALITY: Sudanese
MARITAL STATUS: Married with five children
DATE OF APPOINTMENT: March 1968

Qualifications

- 1968** B.V.Sc., University of Khartoum
- 1972** Dip. Bact., University of London
- 1975** Ph.D., University of Bristol
- 1986** Professor of Microbiology
- 1986** The International Who's Who of Intellectuals Cambridge, England
- 1990** Distinguished Leadership Award
- 1991** Outstanding Contributions to Science –abi.
- 2000** Golden Medal for Science by Head of State. Rep. of Sudan
- 2007** Global Year of Learning. The Plato Award for Significant Contribution to Microbiology.
- 2007** 21st Centaury Award for Achievement – Outstanding Achievements in the Field of Applied Microbiology.
- 2012** Top **100** Scientists for the efforts made by said individual in the Arena of Post Graduate Supervision.
- 2014** The TOP RECORD in the University of Khartoum Fifth Conference for Post Graduate Studies and Scientific Research in Agricultural and Veterinary Sciences.

Posts Held

- (1975-79):** Head, Biological Products Department, Veterinary Research Laboratory, Khartoum.
- (1979-81):** Director of Benghazi Veterinary Research Laboratory.
- (1981-83):** Head, Biological Products Department, Veterinary Research Laboratory, Khartoum.
- (June, 1983):** Associate Professor of Microbiology, Department of Microbiology and Parasitology, Faculty of Veterinary Science University of Khartoum.
- (Dec.,1985):** Head, Department of Microbiology and Parasitology, Faculty of Veterinary Science University of Khartoum.
- (Nov.,1986):** Head Department of Microbiology, University of Khartoum.
- (March,1987):** Head Department of Microbiology, University of Khartoum.
- (Oct.,1987-91):** Joined College of Veterinary Medicine and Animal Resources, King Faisal University, as an Associate Professor of Microbiology and head of Microbiology Department.
- (1992):** Returned to Sudan. Department of Microbiology, Faculty of Veterinary Science, University of Khartoum.
- (1993-1994):** Under-Secretary for the Faculty of Veterinary Science, University of Khartoum, October, 1993 to July 1994 and Acting Dean, July,1994 to November, 1994,
- (1992):** Head of Sheep Diseases Project funded by Animal Resources Bank and Ministry of Animal Resources.
- (1999-2003):** Director, Institute for Promotion of Animal Export Studies.

Professional History

- (2003):** Dean, Faculty of Veterinary Medicine.

Joined the Ministry of Agriculture, Food and Natural Resources in March 1968 after graduation from the University of Khartoum with 'Licos' prize and merit in Animal Husbandry. Orientation period of six months in different sections of the Ministry. Joined the Veterinary Research Laboratory in 1968, then joined the Biological Products Section.

Conducted research in various problems in the field. In 1972, I was sent to the United Kingdom for the Dip. Bact., London University. In 1973 I was registered in Bristol University, Meat Research Institute. Awarded Ph.D. in 1975. Recorded in the Board of Honour – Bristol University. Returned to the Sudan and appointed as Head Section for the Biological Products.

March 1978, promoted to Senior Research Officer with Two Extra Increments for Excellent Performance. September, 1978 appointed as manager for the Bacterial Vaccine Laboratory intended to be constructed by the Bio-Merieux Company.

Biological Production Section

Responsibilities:-

- a) **General:** Deals with bacterial vaccine production, i.e. Anthrax, haemorrhagic septicaemia and blackleg. Production of antisera for various bacteria. Standardization of vaccines. This includes safety, potency and efficacy testing. Preparation of the seed for the vaccine and checking of purity. Investigation on bacterial diseases and outbreaks. Research to improve quality of vaccines. Economical studies to improve production media. Comparative studies between field strains and those that are in use for vaccine production in search for immunogenic strains. Monthly and annual reports of the section.
- b) Survey of bacterial diseases of economical importance e.g. haemorrhagic septicaemia, anthrax, blackleg, bovine farcy, John's disease, tuberculosis and brucellosis.
- c) **Research:** I have conducted research in different field of microbiology, improving vaccine quality and isolating aetiological agents of certain diseases for the first time in the Sudan.

Scientific achievements:-

- 1- First report of infectious bovine keratoconjunctivitis and isolation of *Moraxella bovis* for the first time in the Sudan. Preparation of a selective diagnostic medium for isolation of *Moraxella bovis*.
- 2- First report of *Salmonella typhimurium* var. *Copenhagen* from pigeon.
- 3- First report of *Actinobacillus actinoides* from a pneumonic lung of calves in Sudan and Africa.
- 4- Drew the attention, with other colleagues, to the predisposing of dogs to canine distemper if the infection is preceded by *Nocardia asteroides*.

- 5- Preparation of economic medium for production of blackleg vaccine: Sixteen times more.
 - 6- Isolation of a bacteriocin from *Bacillus cereus* which is inhibitory for *Clostridium chauvoei* and hence explained the failure of isolation of the latter for several years. Using a transport medium, I was able to make the first successful isolation of *Clostridium chauvoei* in the Sudan. The bacteriocin isolated was proved to be inhibitory for *C. chauvoei* both in vitro and in vivo.
 - 7- First report of isolation of *Actinobacillus lignieresii* and its association with *Pasteurella multocida* in causation of pneumonia in sheep.
 - 8- Isolation of mycolic acid from Sudanese strains of *Nocardia farcinica* in enough quantities that permit the designation of Mycobacterium.
 - 9- Reporting both type (A) and (B) of *Clostridium novyi* from a case of gas gangrene in a cow and an outbreak of blackleg disease in sheep respectively. First report in the Sudan and second in Africa.
 - 10- Isolation of *Serratia marcescens* from dead honeybees larvae. First report in the Sudan. Second in the literature regarding larvae.
 - 11- First report of sheep abscess syndrome.
 - 12- First report of goat abscess syndrome in Sudan.
 - 13- Isolation of *legionella pneumophila* from water air conditions.
 - 14- Black leg vaccine using *Clostridium chauvei* strain Kadogli.
 - 15- Production of vaccine for Sheep Abscess Syndrome – Morel’s Disease – Sano-Vac.
 - 16- Bovine – Farcy Attenuated Vaccine.
 - 17- Investigation on a new function of the liver i.e. attenuation of Bacteria.
 - 18- Detection of the sites for reception of *Bacillus thuringensis* toxins of larvae of Anopheles mosquito.
 - 19- Dental Caries vaccine. Induction of protective immunity against *Stereptococcus mutans* using cell-free and cell associated with glucose transferase.
 - 20- Awarded the certificate of International WHO’s who of Intellectuals for distinguished achievements. Eighth edition, July 1988.
 - 21- Awarded the certificate of Distinguished Leadership by the American Biographical Institute, 1989. (See qualifications).
- d) **Training:** During my stay in the Veterinary Research Laboratory, I was able to train several veterinarians as proper bacteriologists. They obtained their higher degrees. They also had a proper training in vaccine production, surveys and scientific writing. Training of newly

recruited veterinarians as well as technicians and A/technicians. Training of veterinarians from other universities for short periods.

Conferences

A member of the third and eighth steering committees and convenor of the scientific sessions for conferences held by the Sudan Veterinary Association (1969, 1977).

One of my papers was selected as one of the best articles presented and I won a prize for that.

Several conferences were attended both locally and abroad.

Education

Part-timer in the University of Khartoum. 1975-1979, 1981-1983 external examiner for five years. Faculty of Veterinary Science and Faculty of Science. General lectures about vaccines and their production. Taught part of the pathology course. Lectured in Omdurman Institute for A/veterinarians. Taught for one year in illiteracy campaign. Lecturer and Head Department Microbiology Section in Faculty of Veterinary Medicine and Animal Production in King Faisal University for five years.

GENERAL ACTIVITIES IN VETERINARY RESEARCH LABORATORY

- Organizer of the seminars held in the Veterinary Research Laboratory for three years.
- Co-editor for 'Science' page in Sudan News Journal for one year.
- Member of planning and performance executive committee for the Sudan research workers affairs.
- Convener of training and postgraduates studies committee.
- Head of general services committee for one year, functions of which:
 1. Recreation for the people living in the campus of the laboratory.
 2. Illiteracy campaign.
 3. Improving health and hygiene conditions; a mosquito control unit: control was achieved.

4. Designing and running of a cafeteria for the staff members.
5. Designed a laboratory for bacterial vaccine for the Kingdom of Saudi Arabia and Emirates States.

ACTIVITIES IN TE UNIVERSITY OF KHARTOUM

- Member of the Senate.
- Member of the Faculty Board.
- Member of the Faculty Research Board.
- Member of Examination Committee

POSTGRADUATE SUPERVISION

Ph.D:-

- (1) Isam Siddig Abdel Salam, (1986). **Ph.D.** Prevalence and properties of *C. perfringens* isolated from broilers.
- (2) Salah Mukhtar, (1986). **Ph.D.** Avian mycoplasma.
- (3) Babiker Haroun, (1989). **Ph.D.** Prevalence and properties of *C. perfringens* and *C. perfringens*-like organisms isolated from camels.
- (4) Soad Mustafa Omer, (1992). **Ph.D.** Bacteria Naturally parasitising mosquitoes at Khartoum and the possible larvicidal agent.
- (5) Khalid Rodwan, (1996). **Ph.D.** Vaccination against Morel's Disease.
- (6) Noura Karam Alla, (1996). **Ph.D.** On the aetiology of Morel's disease.
- (7) Isam Sidiq Mamoun, (1996). **Ph.D.** Development, optimization and evaluation of diagnostic immune assay for camel brucellosis.
- (8) Mohamed Rajab, (1996). **Ph.D.** The role of capsule in immunization against Morel's disease.
- (9) Nagat Abdella El Awad, (1997). **C.M.D.** Otorhinolaryngology. A comparative study of *Staphylococcus* Nasal carriers in Sudanese people.
- (10) Osman Mohamed El Sawi, (1998). **Ph.D.** *Staphylococcus gallinarum* infection in poultry.
- (11) Taiser Mahi El Din Osman (1999). **Ph.D.** Antibacterial efficacy of some drugs against isolates from chick's parents.
- (12) Abdel Khalig Babiker, (2001). **Ph.D.** Effect of vaccination against, Morel's disease on ewes and the effect on the off spring.

- (13) Saliem M. A/Rahman. (2001). **Ph.D.** Studies on Salmonella isolated from domestic animals in Khartoum State.
- (14) Samia Sadig, (2002). **Ph.D.** The Effect of Gum Arabic on Colonic Bacteria and its Role on the Level of Serum Urea and Creatinin on Healthy Volunteers and Chronic Renal Failure in Sudanese Patients on Haemodialysis.
- (15) Muna O.El Haj, (2002). **Ph.D.** Studies on Improving of Morel's disease vaccine.
- (16) Abdu El Rhaman Mohammed Ali Saied, (2002). **Ph.D.** Pharmacobacteriological Investigation of Various Antibiotics against Different Bacterial Types and Growth phases.
- (17) Amira Abdel Azim Bihaity, (2003). **Ph.D.** Chemical Nature of Gum Arabic and its Effect on Release of Polyamines.
- (18) Kamal Eldin Hassan Ali Eltom, (2003). **Ph.D.** Studies on Thromboembolic Meningitis (Heesh disease) in cattle.
- (19) Zakia Abdelsamad Osman, (2003). **Ph.D.** Plant material as probable growth promoter for certain bacteria and fungi with special reference to spinach ferredoxin.
- (20) Inaam Elsanousi, (2005). **Ph.D.** Recent method of identification of *Brucella* using Molecular Biology technique
- (21) Nazik E.M. Mustafa, (2005). **Ph.D.** Isolation of *Bacillus* and *clostridial* spp. from food of animal origin with special reference to their spores resistance and injury by heat.
- (22) Zakia Abbas Mohamed Ahmed, (2005). **Ph.D.** The role of *Clostridium perfringens* in camel - calf diarrhea with special reference to the pathogenesis and pathology in the Sudan.
- (23) Selma Osman Ahmed Mohammed, (2007). **Ph.D.** Isolation and characterization of *Clostridium perfringens* the Causative Agent of Necrotic Enteritis in Chickens.
- (24) Suzan Abdul-latif Shareef (2007). **Ph.D.** Isolation and identification of *Clostridium difficile* and other *Clostridium* species associated with Diarrheic children and their susceptibility to Antimicrobial Agents.
- (25) Alsadig Mohammed Abdalla (2007). **Ph.D.** Resistance of pathogenic Bacteria to Antibiotics in use in Hospital and community.
- (26) Siham Mohamed Sulieman (2007). **Ph.D.** Biogram of drug resistant Gram-negative bacterial isolates using combinations of commonly used antibiotics.
- (27) Nasreen Omar Musa (2008). **M.V.Sc.** Studies on the immunity of sheep vaccinated with *Staphylococcus aureus sub spp. anaerobius* and challenged with various other species. Upgraded for a **Ph.D.**

- (28) Somaya Ahmed Babiker Freigoun, (2008). **Ph.D.** The effect of Gum Arabic in nutrition of animals and growth of bacteria and the release of Polyamines and their effect on tissue culture.
- (29) Raga Ibrahim Omer Ahmed (2008). **(Co-supervisor) Ph.D.** The role of Staphylococcal fatty acid modifying enzyme (FAME) and triglycerides on abscess formation.
- (30) Manhal, A, M. H (2009). **Ph.D.** Effects of *Bacillus thuringensis* toxins on the Gut Epithelium of Anopheles Mosquito Larvae.
- (31) Amel Mohammed Ahmed Mohammed (Saudi). (2010). **Ph.D. Camel Abscesses in Red Sea State, Sudan**
- (32) Huyam Khidir Fadol Elgaleel Hussien (2010). **Ph.D.** Association of *Clostridium sordellii* with other bacterial pathogens in animal infections.
- (33) Mokhtar Belgacem Halbuda (2011). **Ph.D** Antimicrobial activity of some wild medicinal plants in Libya against pathogenic bacteria.
- (34) El Tigani Ahmed El Tigani Mohamed Asil (2011). **Ph.D.** Studies on the etiology of bovine farcy and vaccination trials in zebu calves in Sudan.
- (35) Asma Abdel Hafeez Ali (2011). **Ph.D.** Sources of aerobic bacteria associated with contamination of camel meat.
- (36) Rashida Hamid Abd Alla (2011). **Ph.D.** Effect of Iron on the Growth of *Mycobacterim tuberculosis* in vitro..
- (37) Yacoub Hamadt Allah El Haj (2011). **Ph.D.** Dental Caries Vaccine: Induction of protective immunity against *Streptococcus mutans* after immunization with cell free and cell associated with glucose transferase.
- (38) Aymen Yousif Mohamed Ali (2012). **Ph.D.** Exploring Possibilities of Application of Hazard Analysis Critical Control Points System to Processed Beef in Khartoum State.
- (39) Hind El Rayah Osman Musa (2012). **Ph.D.** Pathological and Bacteriological studies on ovine and caprine pneumonia and infection of sheep, goats and rats with isolated bacteria. Co. sup.
- (40) Awatif Mohamed EL hasan Mohamed Saeed (2014). **Ph.D.** Effect of wound contamination on wound healing. Co. sup.
- (41) Rania Mohamed Osman Hamid (2014). **Ph.D.** Antimutagens in Some Sudanese plants.
- (42) Mansour Shauei Hassan Ali Awfi (2014). **Ph.D.** Prevalence study of Cytomegalo Virus infection among Pregnant women Population in Sanaa City, Yemen.
- (43) Gamaralanbia (2015). **Ph.D.** Role of trace elements ,pyruvate and catalase for the recovery of cold- shocked bacteria.

- (44) Mona Mamoun (2016). **Ph.D.** Molecular identification of 16s Ribosomal RNA Gene of *Helicobacter pylori* Isolated from Gastric Biopsies in Sudan
- (45) Ebtehad Abd El Gader Merghani Elkider (2015). **Ph.D.** Phenotypic and molecular Assessment of Antibiotics Susceptibility of Bacterial Pathogens isolated from Haemodialysis Patients.
- (46) Zerabrak Tesfmariam (2016). **Ph.D.** Quality Analysis of Asmara City Drinking Water and Human Health Risk Based Assessment of its Hazardous Pollutants.

M.V.Sc.:-

- 1) Osman El Sawi Mohamed (1986). **M.V.Sc.** Studies on the properties of *Clostridium chauvoei* and *Clostridium septicum* and their roles in blackleg diseases.
- 2) Muna Osman El Haj (1986). **M.V.Sc.** Comparative studies on the properties of *C. chauvoei* (Sudanese Kad, strain and CH₃ strain) and the prevalence of *C. chauvoei* and *C. septicum* in livers and spleens of slaughtered cattle.
- 3) Salma Bushra A/Rahman (1986). **M.V.Sc.** Studies on the properties of clostridia of the gas gangrene group and enterotoxemia groups with special reference to their fatty acids products.
- 4) Nada El Awad Mohamed (1986). **M.V.Sc.** Studies on the properties of *Clostridium sordellii* and *Clostridium sordelli*- like organisms isolated from domestic animals.
- 5) A/Rahim A/Rahman Hamad (1986). **M.V.Sc.** Abscess syndrome of sheep and goats with special reference to the aetiology.
- 6) Wafa Khalid Omer (1986). **M.V.Sc.** The role of bile salts and bile acids on the action of antimicrobial agents.
- 7) Hanan El Fadil (1986). **M.V.Sc.** Studies on the properties of *Serratia marcescens* isolated from domestic animals.
- 8) Layla Ismail Mohamed (1987). **M.V.Sc.** Studies on the properties of cold-shocked bacteria isolated from processed meat.
- 9) Siham Elias (1988). **M.V.Sc.** Studies on *Corynebacterium ovis* and its pathogenicity for goats.
- 10) Mohamed Adam (1988). **M.V.Sc.** Bacteria associated with infertility in the cow.
- 11) Fadil, M.T. Hawsawi (1992). **M.V.Sc.** Some studies on ORF virus infection in sheep and goats in Saudi Arabia Kingdom, King Faisal University (Advising Committee).
- 12) Abdul Khaliq Babiker Hassan (1996). **M.V.Sc.** The relationship between fattening and Morel's Disease.
- 13) Taisir Mahi El Din (1996). **M.V.Sc.** Aerobic Bacteria Associated with Dead-in-shell chick embryos.

- 14) Salah El Din Mohamed (1996). **M.V.Sc.** Some studies on ovine mastitis in Eddamar Province.
- 15) Kamal Bashir Saeed (1996). **M.V.Sc.** Studies on the different species of the genus *Staphylococcus* in domestic animals and man.
- 16) Kamal Tibi (1996). **M.V.Sc.** The susceptibility of different Sudanese sheep breeds to *Staph. aureus* and related bacteria.
- 17) Kawthar Ahmed Awad (1996). **M.V.Sc.** Bacteria associated with eye infection in man and animals.
- 18) Abbas Mohamed Ahmed (1996). **M.V.Sc.** Studies related to anthrax live spore vaccine production in the Bioreactors.
- 19) Somaia Ahmed Babiker Freigon (1998). **M.V.Sc.** The role of *Bacillus* species metabolites on the inhibitory effect of enterobacteria and growth promotion on broiler chicks.
- 20) Hoeida Mohamed (1998). **M.V.Sc.** Interaction of Pathogens.
- 21) Mahassin Ahmed Awad (1999). **M.V.Sc.** Comparative Pathological Studies for Morel's Disease.
- 22) Enam Mohamed El Sanousi (1999). **M.V.Sc.** Studies on the Properties of *Brucella abortus* strain 19.
- 23) Kamal Eldin Hassan Ali Eltom (2000). **M.V.Sc.** Studies on *Colibacillus Diarrhoea* in Calves, Sheep and Goats.
- 24) Selma Osman (2000). **M.V.Sc.** Studies on Enteric *Staphylococcus* spp.
- 25) Amal Ismael Abdel Samad (2000). **M.V.Sc.** Physical Properties of the genus *Staphylococcus*.
- 26) Nuha Ibrahim El Sayed (2000). **M.V.Sc.** Isolation of species of the genus *Staphylococcus* from Mastitic and Normal Milk.
- 27) Sania Ibrahim Osman (2001). **M.V.Sc.** Isolation and Identification of the species of the genus *Escherichia* isolated from different domestic animals.
- 28) Khawla Mohamed Sidig (2002). **M.V.Sc.** Bacterial Load of cats as a Potential Source of Cat Bite and Cat Scratch.
- 29) Abdella Ahmed Wadi (2002). **M.V.Sc.** Bacterial Load of Animal and Poultry Feed.
- 30) Sara Omer Elfarouq Bihairy (2002). **M.V.Sc.** Pathogenicity of Various *Staphylococcus* species Isolated from Lymph Nodes of Sheep Suspected for Morel's Disease.
- 31) Jihan Osman Ibrahim Hilmy (2003). **M.V.Sc.** Bacteria Associated with Avian Cellulitis in Broilers Chickens.
- 32) Elgazali Gomaa Mohamed (2003). **M.V.Sc.** Studies on Thrombotic Meningoencephalitis in Cattle of West Kordofan State.
- 33) Kadiga Abdelmagid (2003). **M.V.Sc.** Studies on *Escherichia coli* isolated from Poultry.

- 34) Samia Khidir Omer (2003). **M.V.Sc.** Studies on the physical properties of *Clostridium perfringens* isolated from raw and processed meat.
- 35) Ahmed Hassan (2003). **M.V.Sc.** Properties of various isolates from Morel's disease.
- 36) Haytham Mohamed Khair (2005). **M.V.Sc.** Recent Methods of identification of *Mycobacterium* using Molecular Biology technique.
- 37) Hoyam Khidir fadlalgaleel (2005). **M.V.Sc.** Extraction of Ferredoxin from spinach and its effect on growth of anaerobes.
- 38) Lubna Magzoub Salim El Bur (2005). **M.V.Sc.** The Bacteriology of processed cheese with special reference to the expiry date.
- 39) Awatif Awad Mahgoub (2006). **M.V.Sc.** Bacteria isolated from snuff *Nicotiana rustica* before and after fermentation.
- 40) Nagah Ahmed Mohamed Hassan (2007). **M.V.Sc.** Bacteriological and Immunopathological studies on Morel's disease.
- 41) Amel Mohamed Abdalla Mohamed (2008). **M.V.Sc.** Implementation of HACCP System in Poultry Processing plant.
- 42) Iman Brier Mohamed Tom (2008). **M.V.Sc.** Bacteriology of the eye infection in Man and Animals in Khartoum State.
- 43) Dalia Ahmed Mohamed (2009). **M.V.Sc.** association between fatty acids profiles of *Corynebacterium pseudotuberculosis* and pathogenicity in mice.

M. Sc.:-

- 1) Fatima El Amin (1985). **M.Sc.** Bacteriology of processed meat in the Sudan.
- 2) Samia Sadiq (1997). **M.Sc.** The members of genus *Staphylococcus* associated with food.
- 3) Raad Obeidat Turki (1997). **M.Sc.** The role of *Staphylococcus* species as post-operative infections in human.
- 4) Huda Abdel Rahim Mohamed (1997). **M.Sc.** The role of *Staphylococcus* species as laboratory contaminants.
- 5) Hind Mohamed El Hussien (1998). **M.Sc.** Prevalence of *Staphylococcus* species in man in health and disease.
- 6) Reem Mohamed Elfatih (2000). **M.Sc.** Human Nasocarriers of *Staphylococcus* spp. In the Sudan.
- 7) Manhl Ahmed Mohamed Hamza (2002). **M.Sc.** Studies on the larvicidal effects of metabolites (toxins) of certain *Bacillus* spp. against *Anopheles arabiensis* mosquito larvae.
- 8) Rashida Hamid Abdalla Ahmed (2002). **M.Sc.** The effect of Gum Arabic on bacterial mass in feces in healthy human volunteers.
- 9) Hayat Ibrahim Hassan (2003). **M.Sc.** The microbiology of the street food prepared for the school students in Khartoum State..

- 10) Yagoub Hamad AllahEl Haj (2004). M.Sc. Evaluation of Aerobic Bacterial agents for active suppurative Tonsilitis .
- 11) Eiman Ahmed El Sayed (2005). **M.Sc.** (co). Some biological, behavioural and microbiological studies on the mosquito *Culex quinque fasciaticus* Say (Diptera: Culicidae).
- 12) Najem Aldin Mohamed Hassan Osman (2005). **M.Sc.** Bacteriology of Chronic Suppurative Otitis Media.
- 13) Abas El Safi (2005). **M.Sc.** Ear-Normal Flora as an Inhibitor to Pathogenic Bacteria isolated from Otitis Media.
- 14) Fawzia Mohamed Hussien (2005). Bacteriology of Eye Infection in Man.
- 15) Mona Motassuim Mamoun Mohammed (2005). **M.Sc.** Isolation of Staphylococcus Spp from cheese whey with special reference to their Salt Tolerance.
- 16) Nashwa Awad Salih (2005). **M.Sc.** Bacteriology of pasteurized milk with special references to the thermal death point of the bacterial contamination of the milk.
- 17) Nadia Adam Mohamed Ahmed (2006). **M.Sc.** Micro. The effect of Bacillus Larvicidal toxins on mammals.
- 18) Nazik Ahmed Mohamed Salih (2007). **M.Sc.** Micro. Studies on the properties of spinach (*Spinacia aleracea*) ferredoxin and its support for growth of anaerobic bacteria and its fate.
- 19) Zeinab Eltahir Mohamed Hamad (2007). **M.Sc.** Micro. A study on vancomycin resistant Staphylococci isolated from man, animals and cheese in Khartoum State.
- 20) Maha Mustafa Ahmed. (2007). **M.Sc.** Microbiological Studies on Bacillus spp. Metabolites and their bacteriocidal effect on *Staphylococcus* spp.
- 21) Ebtahalat Ibrahiml Abd Almutaal (2009). **M.Sc.** Thermal death point of bacteria associated with mutton, beef and camel meats in Khartoum state.
- 22) Maria Abdalla Adam (2010). **M.Sc.** Aerobic Bacteria Associated with Some Canned Food.
- 23) Amal Babikir Abdalrahem Magzoob (2010). **M.Sc.** Contamination of Poultry Carcasses with Various Species of Staphylococcus.
- 24) Nagla Mubark Mohamed Ibrahim (2010). **M.Sc.** Physiological Attributes of Cold Shoked *E. coli*, *Salmonella* spp *Staphylococcus aureus* and *Pasteurella multocida*.
- 25) Siham Mahmoud Hemd Mohamed Hamid. (2010) **M.Sc.** Enteric Bacteria Associated with American Cockroach *Periplaneta americana* With Special reference to *Escherrichia blattae*.

- 26) Adla Basil Habeeb (2010). **M.Sc.** Agar gel Immune Diffusion Test For Identification Of Meat From Different Species Of Animals.
- 27) Nandi NugdAlla Ali (2009). **M.Sc.** (SAS) The aetiology of urinary tract infection in diabetic patients compared with non diabetic patients and antimicrobial sensitivity.
- 28) Sally Adam Osman (2009). **M.Sc.** (SAS). Effect of temperature and pH on toxin of *Bacillus thuringenses*.
- 29) Somaya Sadig Mohammed (2009). **M.Sc.** (SAS). Bacteria isolated from external ears of healthy sudanese persons.
- 30) Manal Awad Al-Kareem (2010). **M.Sc.** Prevalence of *Clostridium perfringens* and *Clostridium perfringens*-like organisms in feces of domestic animals.
- 31) Ibraheem Ameen Ibraheem Ubd Urruzzaq (2010). **M.Sc.** Impact of Gamma radiation on microorganisms.
- 32) Amal Babiker Abd Elrahim Magzoub (2010). **M.Sc.** Contamination of poultry carcasses with Staphylococcus species at slaughter houses of three companies in Khartoum.
- 33) Hiba Salah eddin Orsud Mohammed (2010). **M.Sc.** Assessment of the effect of gum arabic on the recovery of cold shocked bacteria.
- 34) Aymen Mohammed Mohammed Salih (2010). **M.Sc.** Isolation and identification of probiotic bacteria from Sudanese dairy production.
- 35) Reem Hashim Osman (2010). **M.Sc.** (SAS). Staphylococcus species carried by food handlers.
- 36) Arafa Mohamedeen Mohamed (2010). **M.Sc.** Contamination of Ready to Eat Vended food of Meat Origins with aerobic bacteria.
- 37) Maria Abdalla Adam Ismail (2010). **M.Sc.** Micro. Aerobic bacteria associated with some canned food.
- 38) Mariam Mohamed Idris Saad (2011). **M.Sc.** (SAS). Isolation of *Vibrio* species from gills of nilotic fish.
- 39) Minan Bakheet Ibrahim (2011). **M.Sc.** (SAS). The level between the efficiency of Methylen Blue and Resazurin reduction time and bacteria contaminating milk.
- 40) Fatima Babikir Medani (2011). **M.Sc.** (SAS). Bacteria associated with infested dates by various parasites.
- 41) Zainab Hassan (2011), **M.Sc.** (SAS). Staphylococcus nasocarriers among hospital staff members.
- 42) Nehal, S. O. M. (2011). **M.Sc.** Prevalence of *Legionella pneumophila* in Dental chair Units detected with PCR at selected Hospital in Khartoum State University of Medical Science and Technology.
- 43) Suhail, Y.E.A. (2011). **M.Sc.** The susceptibility of Hospital *Staphylococcus aureus* isolates against First, Second and Third generations of cephalosporins using Manual E. test S.A.S.

- 44) Lamis, D. A. M (2011). **M.Sc.** The role of cholesterol in Enhancing Growth of Staphylococcus. S.A.S.
- 45) Sayda, M. E. (2011). **M.Sc.** Bacterial Load in Martedella collected from different supermarkets in Khartoum State S.A.S.
- 46) Sana, H. A (2011). M. Sc. The prevalence and survival of *Bacillus cereus* in raw and cooked rice.
- 47) Kawther S. (2011). **M.Sc.** the role of vegetable edible oils in bacterial growth S.A.S.
- 48) Suha Osman Elshareef (2012). **M.Sc.** Microbiological Determination of the MIC of Quinolnes, Ciprofloxacin and Norfloxaccine against Pathogenic *Staphylococcus aureus* using Manual E. Test.
- 49) Sara Mohamed Yousif (2012). **M.Sc.** Micro. Determining of the MIC for the cell-wall inhibitors β lactame amoxicillin and cloxacillin against pathogenis *Staphylococcus species* using Manual E. Test.
- 50) Safa Awad Saeed (2012). **M.Sc.** (SAS). The use of Phosphatase Production Test for the Detection of Coagulase Positive *Staphylococcus*.
- 51) Mahgoub Osman Mahgoub (2012). **M.Sc.** (SAS) Aerobic Bacteria Associated with Paronychia .
- 52) Hadeel Mudathir Hasan (2012). **M.Sc.** (SAS). Bacterial Load in Spices vended at different supermarkets in Kassala State.
- 53) Aisha Mudwi Alawad (2012). **M.Sc.** (SAS) Determination of the Minimum Inhibitory concentration of Beta lactam (Amoxicillin and Amoclan against Pathogenic *S.aureus* using Manual E-test.
- 54) Azza S. H. Abugedairi (2012). **M.Sc.** Comparison between polymyxin E and B antibiotics for detection of *Bacillus cereus* on Wheat Seeds and Flour.
- 55) Latifa Bashir Elhag Bashir (2012). **M.Sc.** Sensitivity of Various Bacteria to Different Antibiotics with Special Reference to the Minimum Inhibitory Concentration.
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- 60) Malak E. M. (2013).**M.Sc.** After late Dr. Sulieman Mohamed El Hasan.Comparison between Antibiotics and Bee Honey against Bacteria isolated from Wounds.

- 61) Malaz Fathi Abdel Karim El Faki (2013). **M.Sc.** Evaluation and comparison of Minimum Inhibitory Concentration of various antibiotics on common organisms before and after cold shock.
- 62) Huda Abdul Gaffar Mohamed (2013).**M.Sc.** Effect of cold shock on growth and antibiotic susceptibility pattern of *Staphylococcus aureus* , *Klebsiella pneumonia* and *Shigella dysenteriae*.
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- 64) Wijdan Mubarak Awad Elsyid (2013).Assesment of Thermostability of Catalase Enzymes of some Gram-Positive and Gram-negative Bacteria
- 65) Sahar Sidig Sayed Alsheakh (2014). **M.Sc.** Frequency of Syphilis among Blood Donors in Khartoum State.
- 66) Leila Hussien Ahmed Alrehama (2014). **M.Sc.** Cold-Shocked *Escherichia coli* isolated from sausage and recovery using different substrates.
- 67) Asma A.H, El Tayeb (2014).**M.Sc.**The Aetiology of Abscess Disease of Rejected Sheep at Al Kadaro Quarantine.
- 68) Faiza,A.S. Haj Edris (2014)**M.Sc.**. Prevalence of *Helicobacter pylori* among school children in Kassala City.
- 69) Budoor Ali Yahia Abdul Gadir (2014). **M.Sc.** Bacteria associated with Ready to Grill Broilers and their Thermal Tolerance.
- 70) Nuha Mahgoub (2015) **M.Sc.** The bactericidal effect of Hydrogen peroxide on various Gram-positive and Gram-negative bacteria.
- 71) Ala Kheder Albadawi Mohamed Ahmed (2015) **M,Sc**, Prevalence of *Escherichia* specie on Vended Meat in Khartoum State- Sudan.
- 72) Hanan Mutasim Elrayah (2015). **M.Sc.** The Bactericidal effect of Liver Peptidases Isolated from Domestic Animals.
- 73) Sherene Ahmed El Sayed (2015) **M.Sc.** The relationship between the intensity of pink colour of *Escherichia coli* on MacConkey's agar and production of Lactase Enzyme.
- 74) Suha Elsamani Ibrahim Abuidris (2015) **M,Sc**. The correlation between Anti streptomycin O and *Streptococcus pyogenes* in Khartoum ENT Hospital.
- 75) Moawia Mohamed Saeed Mohamed (2015). Photochemical screening and anti microbial activity of *Costus speciosus*.
- 76) Nada Mohamed Salih Alhesen (2015) **M.Sc.** Recovery of Heat-Shocked Bacteria on Improved Media.
- 77) Razaz Babikir Ali Abd Alhamid. (2015) **M.Sc.** Effect of Bile and Bile Salts on Growth of Bacteria in Vitro.

- 78) Omima Elbashir Badi Elshikh (2015) **M.Sc.** Aerobic Bacteria Associated with Human Ophthalmic Infection in Khartoum State Sudan. After Late Dr. Sulieman Mohamed El Hasan
- 79) Makarim Khalid Abdelbagi Terab (2015) **M.Sc.** Fermentation of sugars by some Staphylococcus spp. with special reference to Cellobiose.
- 80) Sara Mohammed Hassan Elnour (2015).**M.Sc.** *In vitro* Effect of some Antibiotics on Different Growth Phases of *Escherichia coli*,
- 81) Osman Adam Eissa Dafallah (2015) **M.Sc.** Aerobic Bacteria Associated with Subclinical Mastitis in Dairy Cows in Khartoum State.
- 82) Sahar Abubakr Ibrahim Hasan (2015) **M.Sc.** Seroprevalence of Hepatitis B and C virus among blood donors at National Laboratory for Public Health.
- 83) Hajras Tajalsir Mohamed Haseeb (2015) **M.Sc.** Detection of Cloiform Bacteria in Drinking water in Khartoum State
- 84) Marwa Mohamed Osman Mohamed Nur (2016). Investigation on Vancomycin Resistance among Methicillin resistant *Staphylococcus aureus*. In Khartoum State.
- 85) Awadia Gism Elsid Abdelrasol Mohamed (2016). Recovery of Cold-Shocked Bacteria from Ice Blocks Vended in Khartoum State.
- 86) Tarig Abdelrahman Algarrai Ahmed (2016). Effect of Bile Salt Sodium Taurocholate on Susceptibility of Enterobacteria to some Antibiotics
- 87) Abdelrahman. Mohamed Hamid Alzain (2016). The Bactericidal effect of Different Concentrations of Ethanol and Methanol on Different isolates of different Staphylococcus species.
- 88) Salma Mohamed Badawi Haseeb (2016). The effect of Gum Arabic on Recovery of some Gram-positive and Gram-negative Bacteria.

MPEH:-

- 1) Azhari Dafalla El khidir (2004). **MPEH.** Dairy Microbiology in Sudan: Standards for yeast and Mould Count on Butter marketed in Khartoum. Supervision after late Dr. Mohamed Sary El Din.
- 2) Eiman Mirgani Mohamed (2004). **MPEH.** Bacteriological Quality of Water Supply and Sanitation of Some Food Factories at Khartoum North Governorate. Supervision after late Dr. Mohamed Sary El Din.
- 3) Rania Mubarak El Siddig El Buluk (2004). **MPEH.** Bacteriological Hazards of Vended beverages in Khartoum State. Supervision after late Dr. Mohamed Sary El Din.

- 4) Zahra Yousif Hamid Nourian (2004). **MPEH**. Coliform Bacteria in Raw Milk Vended in Khartoum State. Supervision after late Dr. Mohamed Sary El Din.
- 5) Salwa Mohamed Ahmed Bakhiet (2004). **MPEH**. Apraisal of Sudanese Quality and Safety Control System of Beef and Mutton for Export. Supervision after late Dr. Mohamed Sary El Din.
- 6) Fatima El Hadi Hassan Suliman (2004). **MPEH**. Santation and Impact on Meat preparation at Al Kadaro Export Abattoir, Khartoum State. Supervision after late Dr. Mohamed Sary El Din.
- 7) Suhiba Taj El Sir (2005). **MPEH**. Antibiotic residues in raw milk at Khartoum State. Supervision after late Dr. Mohamed Sary El Din.
- 8) Nagla yasin (2005). **MPEH**. Food Hygiene in Khartoum State. Supervision after late Dr. Mohamed Sary El Din.
- 9) Modawy Elnour Modawy (2009). **MPEH**. The elected growth of *Clostridium perfringens* in processed food under normal condition in comparison to its actual growth under normal and cold-shock.
- 10) Randa Abbas Abdalla (2009). **MPEH**. Resistance of bacteria to chlorine and its association with indicator contamination in drinking water at treatment plants in Khartoum State
- 11) Mohamed Khery Osman Ali (2012) **MPEH**. A coparison between swabbing and excision sampling methods for bacterial load of carcasses at slaughter houses in Khartoum State.
- 12) Rania Mohamed Sid Ahmed (2013) **MPEH**. Isolation of *Bacillus cereus* and detection of Bacteriocin activity against some food-borne bacteria.
- 13) Hadia Bashir Mustafa Elnoman (2016) **MPEH**. Isolation and Identification of Escherichia spp from vended meat.
- 14) Eiman Haamad El Nil Ali (2016) **MPEH**. Heat tolerance for Aerobic Bacteria causing food poisoning in food of meat origin.
- 15) Shima Elgaily Abdalla (2016) **MPEH**. Testing of thermo-stability of *Staphylococcis* toxin using mice as a model.
- 16) Wafa Imam Ibrahim (2016) **MPEH**. Evaluation of Meat Safety Based on pre-requisite of Health Program in El Kadaro Slaughter house.

Journals covered by the author

British Journals:-

- 1) Veterinary Record
- 2) Current Science.
- 3) Tropical Animal Health.

- 4) Journal Veterinary Equine
- 5) Journal of Hygiene and Tropical Medicine.
- 6) Journal of General Microbiology.
- 7) Journal of Small Animal Practice.
- 8) Journal of Comparative Pathology.
- 9) Journal of Arid Environment.
- 10) British Veterinary Journal.
- 11) Veterinary Research Communication.
- 12) British Microbiol. Res, J.
- 13) Vet.Res. Communication
- 14) J. Environm.
- 15) Euro. J. expt. Biol.
- 16) Euro.. Int. J of Sci and Tech.
- 17) Int J Sci and Technology

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- 18) Journal of Pathology.
- 19) Cornel Veterinarian.
- 20) American J. Microbiol.Res.
- 21) J.Comp.Pathology.
- 22) Standards in Genomic Sciences.
- 23) J of Infection Control.
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French Journals:-

- 25) Review Zoologique Africa.
- 26) Review de Elevage et Mediacux Vet. Pays Tropicaux.

German Journal:-

- 27) Journal of Veterinary medicine
- 28) Tropentag Humboldt Universtt Zu.Berlin.

Dutch Journals:-

- 29) Dutch tierärztc Wschr.

Australian Journal:-

30) Australian Veterinary Journal.

Chinese Journal:-

31) International Journal of Zoonosis.

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