

Curriculum vitae

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Education

- 1987-88** Postdoctoral fellow, Alexander von Humboldt fellowship, Department of Structural Chemistry, Faculty of Chemistry, Ruhr University, Bochum, Germany.
- 1979-82** Ph.D. Department of Pharmaceutical Chemistry, University of Strathclyde, Glasgow, United Kingdom.
- 1972-74** M. Pharm., Department of Pharmacognosy, Faculty of Pharmacy, Szeged University of Medical Sciences, Szeged, Hungary.
- 1968-72** B. Pharm., Faculty of Pharmacy, Szeged University of Medical Science, Szeged, Hungary.

Employment History at the University of Khartoum

- 1992-to date** Professor, Department of Pharmacognosy, Faculty of Pharmacy, University of Khartoum.
- 1985-92** Associate Professor, Department of Pharmacognosy, Faculty of Pharmacy, University of Khartoum.
- 1982-85** Assistant Professor, Department of Pharmacognosy, Faculty of Pharmacy, University of Khartoum.
- 1977-82** Teaching Assistant, Department of Pharmacognosy, Faculty of Pharmacy, University of Khartoum.

University Appointments

- 1992-94** Dean, Faculty of Pharmacy, University of Khartoum, Sudan.
- 1988-92** Head, Department of Pharmacognosy, Faculty of Pharmacy, University of Khartoum, Sudan.

Other Appointments

- 1999-2000** Dean of Academic Research and Editor-in-Chief, *Al-Balqa*, Scientific refereed journal published by Amman University, Jordan.
- 1997-1999** Dean, Faculty of Pharmacy & Medical Sciences, Amman University, Amman, Jordan.
- 1990-1992** Acting director, Traditional Medicine Research Institute, National Research Council & WHO Collaborating Centre for Traditional Medicine for the Eastern Mediterranean Region, Khartoum, Sudan.
- 1977-1978** Quality Assurance Manager, Sterling Winthrop Pharmaceuticals, Khartoum North, Sudan.
- 1976-1977** Production Manager, Sterling Winthrop Pharmaceutical International, Khartoum, Sudan.
- 1975-1976** Community pharmacist, Khartoum, Sudan.

Teaching Fields

- Phytochemistry/Natural Products Chemistry with particular emphasis on pharmacologically active medicinal plants.
- Phytotherapy and rational use of herbal medicines.
- Chromatography with special emphasis on hyphenated techniques (GC/MS., LC/MS/MS & LC/NMR)
- Structural elucidation of natural products with special emphasis on modern nuclear magnetic resonance (NMR) spectroscopic techniques.
- Secondary plant metabolism and their chemotaxonomical distribution in relation to their phylogeny.
- Alternative, Complementary and Integrative Medicines.

Academic Grants and Awards

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| 2014 | Elected fellow of the African Academy of Sciences (FAAS), Nairobi, Kenya. |
| 2014 | Awarded a grant entitled: “ <i>In vivo</i> screening for anticonvulsant activity of Sudanese medicinal plants” by the Royal Society, London, UK. |
| 2013 | Elected Exudative Secretary, Natural Products Research Network for Central and Eastern Africa (NAPRECA) since 10 th of December 2013. |
| 2013 | Awarded (1000 CHF, Swiss Franc) for best paper for the year 2013, by the <i>Molecules</i> journal. Manuscript entitled: “ <i>Quantitative Structure—Antiprotozoal Activity Relationships of Sesquiterpene Lactones</i> ”. |
| 2009-to date | Scientific Adviser, International Foundation for Science (IFS), Stockholm, Sweden. |
| 2003-2006 | President of Advisory Board, Traditional Medicine Research Institute and WHO-Collaborating Centre for Traditional Medicine for the Eastern Mediterranean Region, Khartoum, Sudan |
| 1996 -1997 | Visiting professor during my sabbatical leave, Department of Medicinal Chemistry, Faculty of Pharmaceutical Sciences, University of Copenhagen, Copenhagen, Denmark. |
| 1989 – 1991 | Awarded a research grant entitled: “ <i>Sudanese Meliaceae as a source of novel antimalarial agent(s)</i> ” by Band aid international, London, UK. |
| 1989 | Visiting Research fellow, Walter Reed Research Institute, Washington, D.C., USA. (6 months) |
| 1986 | Awarded a research grant entitled: “ <i>Biochemical aspects unique to the parasite (Striga) /host (Sorghum) system</i> ”, United States Agency for International Development (USAID). USA. |
| 1985 | World Health Organization (WHO) fellow, Pharmacognosy Department, Faculty of Pharmacy, Szeged University of Medical Sciences, Hungary. |
| 1972-1974 | Fellowship, Organization for International Technical and Scientific Co-operation, Department of Pharmacognosy, Faculty of Pharmacy, Szeged University of Medical Sciences, Szeged, Hungary. |
| 1972 | Recipient of the National Award for Outstanding Undergraduate Research project on Biology and Chemistry, Hungary. |

Memberships in Academic and Professional Societies

- Africa coordinator, Research Network Natural Products against Neglected Diseases (ResNet NPND), Germany, since February 2014.
- Member, American Society of Pharmacognosy, ASP [USA; 1973-todate].
- American Chemical Society, ACS [USA; 1990-to date].
- Professional membership, American Botanical Council [USA since 2010].
- Gesellschaft für Arzneipflanzenforschung, GA. Society of Medicinal plants Research [Germany; 1988-present].

- Academic secretary, The Sudanese Society of Tropical Medicine & Hygiene [Sudan, 1993-1996].
- Chairman, Natural Products Research Network for Eastern & Central Africa (NAPRECA) as from 1994.
- Member, Species Survival Commission (SSC), the World Conservation Union (IUCN) [Gland, Switzerland; since 1995].
- Member, Research Initiative on Traditional Antimalarial Methods (RITAM) [Oxford, UK; since 2000].
- Member, University of Khartoum Library Committee as a representative of the Faculty of Pharmacy during period 1987 till 1990.

Research Activities

- Research has generally been directed towards the isolation of plant secondary metabolites with special emphasis on Sudanese medicinal plants exhibiting biological activities.
- A wide range of natural products have been isolated and their structures fully elucidated using modern spectroscopic techniques. Particular expertise has been developed on the interpretation of nuclear magnetic resonance spectroscopy (^1H & ^{13}C NMR), including high field (400 and 600 MHz) one- and two-dimensional multi-pulse NMR spectroscopy as well as hyphenated techniques with special skills in GC/MS and LC/MS/MS.
- A sizable portion of the research was directed to the drug discovery of antiprotozoal natural compounds against neglected tropical diseases (NTDs) with special emphasis on malaria, leishmaniasis, and trypanosomiasis.
- The biochemical systematic of a number of the isolated compounds was explored and their significance in relation to the chemotaxonomy of certain plant taxa were investigated and put into a phylogenetic context.
- Global trends in pharmacy education and their impact on pharmacy education in Sudan.

Current Academic Responsibilities

- Member, University Senate, University of Khartoum, Sudan (Since 1989)
- Member of Faculty Board, Faculty of Pharmacy, University of Khartoum (since 1983)
- Member, Faculty Research Board, Faculty of Pharmacy, University of Khartoum, Sudan. (Since 1983).
- Chairman, Faculty Board, Faculty of Pharmacy, University of Khartoum, (1992-1994).
- Chairman, Faculty Research Board, Faculty of Pharmacy, University of Khartoum (1992-1994)
- Member, Board of Trustees, University of Medical Science & Technology, Khartoum, Sudan (Since 1995).
- Member, University Council, University of Science and Technology, Omdurman, Sudan (since 2003).

Contribution to the Faculty of Pharmacy, U of K, during my Deanship

- With the companionship of several helpful colleagues I took an active role in 1992, during my deanship, to build the existing extension of the Faculty of Pharmacy, University of Khartoum, in order to cope with the considerable increase in the numbers of new students.
- I took the initiative as a dean of the Faculty of Pharmacy to invite the WHO consultant, Dr Paul S. Collier, in January/February 1994 to review our pharmacy curriculum and provide the necessary advice to integrate clinical pharmacy into a revised version of the curriculum in order to keep up with the international trends in pharmacy education.

- Dr Collier visit was culminated by conducting a two-day workshop (26-27 of January 1994) at the Meridian Hotel addressing the curriculum development with special reference to clinical pharmacy.
- The workshop was attended by about 40 participants from a variety of academic backgrounds, at which the consultant made a presentation outlining the importance of clinical pharmacy both at the community and hospital settings. An elaborate report entitled: "Development of pharmacy curriculum in Sudan" was received in 13th of June 1994 through the WHO office of the Eastern Mediterranean Region.
- During my headship of the Department of Pharmacognosy, I invited Prof, David Philipson, head of the Department of Pharmacognosy, Faculty of Pharmacy, University of London to revise of the syllabus of Pharmacognosy.

Professional Activities at National Level

- WHO National consultant, Mission for developing national pharmaceutical competency framework, January – March 2014.
- Chairman, Herbal Medicine Registration Committee, National Medicines and Poisons Board, Khartoum, Sudan, since January 2014.
- Chairman of the Organizing Committee, 15th symposium of the Natural Products Research Network for Eastern and Central Africa (NAPRECA), Telecom Tower, Khartoum, Sudan, 3rd - 10th December, 2013.
- Member, Sudan Medical Specialization Board (SMSB) since December 2013.
- National consultant/editor, Sudan Journal of Rational Use of Medicine (SJRUM), Published by the Directorate General of Pharmacy, Ministry of Health in collaboration with the WHO (Since November, 2013).
- WHO National Consultant, Assessment of the working environments and services provided by pharmacy workforce at all healthcare levels in Sudan. (Since November 2013- April 2014).
- Vice-chairman, Gum Arabic Medical Protocol Committee, Gum Arabic Board, Khartoum, Sudan (Since June 2012).
- Member of Advisory editorial board, Sudan Journal of Rational Use of Medicine (SJRUM), Published by the Directorate General of Pharmacy in collaboration with the WHO (Since June 2012).
- Chairman, Natural and Traditional Medicines Committee, National Medicines Policy, 2012-2016, Ministry of Health, Sudan.
- Member, Organizing Committee, 1st International Conference on Health, Organized by Khartoum College of Medical Sciences, 24th – 27th February, 2012, Friendship Hall, Khartoum, Sudan.
- Member, Pharmacy Accreditation Committee, Sudan Medical Council, Khartoum, Sudan (Since 2009).
- Member, National Examination Board, Sudan Medical Council, Khartoum, Sudan (Since March 2009).
- Chairman, Pharmacy Examination Board, Sudan Medical Council, Khartoum, Sudan (Since March 2011).
- Chairman, GMP Inspection Committee of Herbal Medicine to inspect Shineway Pharmaceuticals Manufacturing facility, China, December 2007.
- Member of the organizing committee, 2nd International Conferences on Medical education, Friendship Hall, Khartoum, Sudan, March 2007.
- Member of the organizing committee, 1st International Conferences on Medical education, Friendship Hall, Khartoum, Sudan, February 2005.

- Member, Advisory Committee, Sudan Pharmacists Continuing Professional Development Centre (CPD), since 2005.
- Member, Scientific Advisory Committee, the 25th Scientific Conference of the Arab Pharmacists Union, Khartoum, Sudan, December 2005.
- Organised a workshop on the structure elucidation by NMR, 25th Scientific Conference of the Arab Pharmacists Union, Academy of Medical Sciences, Khartoum, Sudan, December 2005.
- Member, Committee of Herbal Medicinal Products & Food Supplements, General Directorate of Pharmacy, Ministry of Health, Khartoum, Sudan (Since 2004).
- Member of the organizing committee, 1st Forum on the intellectual property as a power tool for economic development. Organized by the World Intellectual Property Organization (WIPO) in collaboration with University of Khartoum, August 2003.
- Chairman, Sudan Taskforce, Affordable Essential Drugs, Millennium Development Goals (MDG). United Nation Industrial Development Organisation (UNIDO), June 2003.
- National consultant for United Nation Industrial Development Organization (UNIDO). A report entitled “Fact-finding and preparatory assistance for the industrial utilization of medicinal plants in Sudan” has been submitted to UNIDO, March 1996.
- Member, Board of Trustee, University of Medical Sciences and Technology, Khartoum, Sudan. Since 1996.
- Organized 1st one-day symposium on the harmonization of natural product research in collaboration with Natural Products Research Network for Eastern and Central Africa. Sharijah Hall, Khartoum, Sudan, March 1994.
- Organized a three-day workshop on new trends in pharmacy education and curriculum development in collaboration with WHO Eastern Mediterranean Regional Office. Meridian Hotel, Khartoum, Sudan. January 1994.
- Chairman of Scientific Committee, the 2nd Sudanese Pharmaceutical Conference. Khartoum, Sudan, 1994.
- Member of the Board of Directors, Sigma-tau Pharmaceuticals Sudan Ltd. (1993-1996).
- Technical consultant, Phytopharmaceutiels Division, Sigma-tau Pharmaceutical Company, Sudan Ltd. (1992- 1996).
- Member of the Scientific Peer Reviewer Committee, the Sudanese/American Collaborative Research Program (1992-1996).
- Scientific consultant for the Gum Arabic Company, Khartoum, Sudan (1984-1990).
- Member of organising committee, the 1st Sudanese Pharmaceutical Conference, Khartoum, Sudan, 1977.

Professional Activities at Regional and International Levels

- Member, Scientific Organizing Committee, 63rd International Conference of the Society of Medicinal Plant and Natural Product Research, Budapest, Hungary, August 23 - 27, 2015
- Member, Research Network Natural Products against Neglected Diseases (ResNet NPND), Germany – Since February 2014.
- Member, Scientific Organizing Committee, 61st International Conference of the Society of Medicinal Plant and Natural Product Research, Münster, Germany, 1st – 5th September 2013.
- Member, Scientific Organizing Committee, International Organization for Chemical Sciences in Development (IOCD) 2011 Symposium, African Plants: Unique sources of drugs, agrochemicals, cosmetics and functional foods, Cape town, South Africa 12 – 16 January 2011.
- *Ad hoc* peer reviewer for the following Journals: *Trends in Parasitology*, *Phytochemistry*, *Phytotherapy Research*, *PLoS Neglected Tropical Diseases*, *Molecules*.

- *Ad hoc* grant proposal reviewer for International Federation of Science (IFS), Uppsala, Sweden.
- *Ad hoc* grant proposal reviewer for TDR/WHO (Geneva)
- *Ad hoc* grant proposal reviewer for Wellcome Trust (UK).
- Associate Editor, *Pharmaceutical Crops*, a peer-reviewed open access journals Published by Bentham Science, USA, since 2009.
- Organized 2nd symposium on natural products research in Sudan in collaboration with Natural Products Research for Eastern and Central Africa (NAPRECA), University of Science & Technology, Sudan, 21st July, 2008.
- Temporary Adviser, Steering Committee on Genomic and Drug Discovery, Special Programme for Research & Training in Tropical Diseases (TDR)/ WHO, Geneva, Switzerland (since 2005).
- Temporary Advisor for TDR/WHO Working Group on Compounds Evaluation Network, Geneva, Switzerland (since 2005).
- Appointed as a consultant to prepare the curriculum of the college of Pharmacy and Health Sciences, Ajman University of Science & Technology, United Arab Emirates, 1996.
- Member, International Editorial Board, Journal of Tropical Medicinal Plants, Published by Total Health Concepts Sdn. Bhd., Malaysia (2001-2004).
- Invited by WHO headquarter to attend experts meeting on antiparasitic natural sources (Geneva, Switzerland, September 2000).
- Refereed more than 10 research proposal submitted to Wellcome Trust, London, United Kingdom since 2000.
- Editor-in-chief, *Al-Balqa*, Scientific refereed journal Published by Deanship of Academic Research, Amman University, Jordan (1999-2000).
- Member of Discussion Panel, Seminar on pharmacy curriculum development, Faculty of Pharmacy, Jordan University of Science and Technology, Irbid, Jordan, May 1999.
- Organized, the 1st International Conference on Clinical Pharmacy, Amman University, Amman, Jordan, April 1998.
- Member of the Regional Organizing Committee of the 7th NAPERCA symposium on natural products, Dar es Salaam, Tanzania, September 1997.
- Chairman, editorial board of experts on medicinal, aromatic and poisonous plants of the Arab world Invited by the Arab Organization for Agricultural Development, League of Arab States, to act as a (April - June, 1996).
- Member of the Regional Organizing Committee of the 6th NAPERCA symposium on natural products, Kampala, Uganda, September 1995.
- Member of Editorial Board, The Sudanese Society of Tropical Medicine & Hygiene (SSTMH) newsletter (1994).
- Academic secretary, The Sudanese Society of Tropical Medicine & Hygiene (SSTMH) for period 1993-1995.
- Member of the Regional Organizing Committee of the 5th NAPERCA symposium on natural products, Antananarivo, Madagascar, September 1993.

Supervision of Postgraduate Students

A. Awarded M.Sc and M.Pharm Degrees

- The abortive nature of *Momordica tuberosa* (M. Pharm.).
- Chemistry and biodynamic of Sudanese Bee Honey (M.Sc.).
- Phytochemistry and Chemotaxonomy of Sudan Acacias (M.Sc.).
- The Physicochemical and microbiological characterization of Gum Arabic (M.Sc.).
- Studies on ampicillin interaction with whole sorghum meal and sorghum tannins following oral administration to healthy males (M.Pharm.).
- Chemistry and antimalarial activity of *Khaya senegalensis* (M.Pharm.).

- Biological and phytochemical investigations on some *Euphorbia* species indigenous to Sudan (M.Sc.).
- Chemotaxonomy and antifungal activity of eight *Euphorbia* species indigenous to Sudan (M.Sc.).
- Phytochemical studies on *Lawsonia inermis* (M.Sc.).
- Goitrogenic activity of pearl millet (*Pennisetum americanum*) (M.Sc.). In collaboration with the Nutrition Institute, Uppsala, Sweden.
- A Phytochemical and Pharmacological study on *Solenostemma argel* leaves (M.Pharm.).
- Biological and Phytochemical investigations of some commonly used medicinal plants (M.Sc.).
- Characterization of milk clotting enzymes of *Solanum dubium* (M.Sc.).
- Clinical and laboratory investigations on *Salvadora persica* as anticariogenic agent (M.Sc.).
- Isolation and structural elucidation of antiparasitic compounds from Sudanese plants (M. Pharm.). Submitted to the Royal Danish School of Pharmacy, Copenhagen, Denmark.
- The therapeutic validity of the extended dose of chloroquine in chloroquine resistant *Plasmodium falciparum* malaria (M. Pharm.).
- A pharmacokinetic study of artemether in Sudanese subjects (M. Pharm.).
- Phytochemistry of *Haplophyllum tuberculatum* (M.Sc.)
- Evaluation of the antimalarial activity of the leaves of *Azadirachta indica* (M.Sc.)
- Characterization of two antioxidant compounds from *Gueria senegalensis* leaves by Tandem Mass Spectroscopy (M.Sc.).
- Isolation and structure elucidation of two diastereoisomeric prenylated flavonoids from *Tephrosia apollinea* root and their chemotaxonomic significance (M. Pharm)

B. Awarded Ph.D.

- Phytochemistry and microbiological activity of certain Sudanese plants (Ph.D.).
- Phytochemistry, Pharmacology and Toxicology of *Argemon maxicana* (Ph.D.)
- The antiplasmodial activity of certain Sudanese medicinal plants with special emphasis on *Maytenus senegalensis* (Ph.D.). In collaboration with the Department of Biochemistry, Faculty of Medicine, University of Khartoum.
- Evaluation of some Sudanese medicinal plants for their *in vitro* anti HIV and antiparasitic activity (Ph.D.). Submitted to the Institute of Pharmaceutical Biology, University of Bonn, Bonn, Germany.
- Studies on the etiology of endemic goiter in Sudan (Ph.D.). In collaboration with Department of Medical Sciences, Nutrition, Uppsala University, Uppsala, Sweden.
- Characterization of nephrotoxic agents of *Arisolochia bracteolate* by modern hyphenated techniques (Ph.D.)
- The antiparasitic activity of Sudanese plants of the family Asteraceae (Ph.D. program). In collaboration with the Institute of Pharmaceutical Biology, University of Munster, Germany.

C. Currently under my full/ partial Supervision

- The Phytochemistry and clinical validity of *Lupinus termis* seeds in the treatment of atopic eczema and acne (M.Pharm.)
- Isolation and structure elucidation of leishmaniacidal alkaloids present in some selected Sudanese medicinal plants (Ph.D.).
- The antileishmanial activity and immunomodulatory effect of *Acacia nilotica* pods (Ph.D.).
- Evaluation of Antiplasmodial Activity of Selected Sudanese Medicinal Plants on the Basis of Enoyl-ACP Reductase Inhibition (M.Pharm.)
- Biological evaluation and chemical characterization of the antioxidant, antimalarial and the antidiabetic agents of *Nauclea latifolia* (M.Pharm.).
- Discovery of new trypanothione reductase inhibiting antitrypanosomal and antileishmanial agents from Sudanese medicinal plants (Ph.D.)

- Phytochemical profiling of the secondary metabolites of *Grewia tenax* fruits and clinical validation of its traditional use against iron deficiency anemia (Ph.D).
- Bioactivity guided isolation of antiparasitic constituents of some selected Sudanese plants (Ph.D)
- Ethnopharmacology of Red Sea marine natural products and their antioxidant activity (Ph.D).

Invited Plenary Lectures & Keynote Speeches at International Conferences

- Development of microtiter plate-based method for the determination of the MIC of antimycetomal agents against *Madurella mycetomatis*. 2nd Workshop, Research Network Natural Products against Neglected Diseases (ResNet NPND), Rio de Janeiro, Brazil, 25th-28th November, 2014.
- Current state and future perspectives of natural products-based drug discovery in Africa. 61st International Conference of the Society of Medicinal Plant and Natural Product Research, Münster, Germany, 1st – 5th September, 2013.
- Discovery of bioactive natural compounds against neglected tropical diseases, Institute of Biochemistry, Saarland University, Saarbrücken, Germany, 6th September, 2010.
- Natural products as a potential source of bioactive candidates against neglected tropical diseases, Helmholtz-Institute for Pharmaceutical Research Saarland, Saarbrücken, Germany, 17th September, 2010.
- Phytomedicines safety and pharmacovigilance: some important considerations. 57th International Congress & Annual Meeting of the Society for Medicinal Plant and Natural Product Research, Geneva, Switzerland, August 2009.
- Some recent antimalarial hits, Research Initiative on Traditional Antimalarial Methods (RITAM) Green College, Oxford, UK, October 2006.
- Has traditional medicine anything to offer orthodox medicine? The 137th British Pharmaceutical Conference. Organized by the Royal Pharmaceutical Society of Great Britain, Birmingham, U.K, September 2000.
- Bioactive compounds from Sudanese flora. Department of Medicinal Chemistry, the Royal Danish School of Pharmacy, Copenhagen, Denmark, April 1997.
- Sudanese medicinal plants as a source of novel bioactive molecules. Department of Pharmacognosy, the Royal Danish School of Pharmacy, Copenhagen, Denmark, November 1996.
- The bewildering diversity of secondary metabolites. Department of Medicinal Chemistry, the Royal Danish School of Pharmacy, Copenhagen, Denmark, September 1996.
- Goitrogenic agents of pearl millet (*Pennisetum americanum*). Department of Nutrition, University of Uppsala. Uppsala, Sweden, March, 1991.
- New Approaches towards chemical characterization of gum Arabic. International ZDS Seminar on Gum Arabic. Solingen, Germany, June 1988.

- Phytochemical research on Sudanese Plants: A critical overview. Department of Structural Chemistry, Faculty of Chemistry, Ruhr University. Bochum, Germany, April 1988.
- Concluding remarks and final address. The 2nd International Workshop on Isolation and Structure Elucidation of Natural Products Using Spectroscopic Techniques. Karachi, Pakistan, January 1987.
- Recent methods of detection and analysis of narcotics of plant origin with special emphasis on cannabinoids. Seminar organized by the Department of Biological Sciences, Old Dominion University. Virginia, USA, October 1986.
- Prenylated flavonoids from African Tephrosieae. 1st Conference of the Chemistry Sub-network of the African Network of Scientific and Technological Institutions (ANSTI). Addis Ababa, Ethiopia, May 1986.
- Cannabis and amphetamine trafficking in Sudan. United Nations Expert Group Meeting on Recommended Methods of testing Cannabis and Amphetamine/Methamphetamine Analysis. Kuala Lumpur, Malaysia, September 1986.
- The Chemistry of the Burseraceae. The Phytochemical Society of Europe International Symposium on Chemistry and Taxonomy of the Rutales. Glasgow, Scotland, 1982.

Invited Lectures at Regional Workshops, Seminars & Conferences

- Current African landscape of natural products-based drug discovery- present opportunities, strength and weaknesses. 15th Natural Products Research Network for Eastern and Central Africa (NAPRECA), National Telecom Corporation Tower, Khartoum, Sudan, 7-10 December 2013.
- Towards efficacious and safe African phytopharmaceuticals of pharmacopeial quality. International Organization for Chemical Sciences in Development (IOCD) 2011 Symposium, Cape Town, South Africa, 12-15 January 2011.
- Developing a natural products repository. Pan-African drug Discovery Consortium (PADDC) seminar, Gaborone, Botswana, April, 2009.
- Drug discovery of bioactive agents against neglected diseases. Faculty of Pharmacy, University of Addis Ababa, Addis Ababa, Ethiopia, June, 2008.
- The chemical and botanical diversity of selected antiparasitic agents isolated from Sudanese plants. First joint IOCD-ISDNP International Symposium on Natural Products, Kasane, Botswana, February 2008.
- Ethnopharmacological approach as a basis for the development of novel natural lead antimalarials. Network for Research Capacity Strengthening for drug Discovery from Natural Products. Organised by TDR/WHO, Holiday Inn Hotel, Dar es Salaam, Tanzania, December, 2003.
- Antiprotozoal activity of some Sudanese medicinal plants commonly used in the traditional medicine. The 5th Scientific Congress of the Association of the Colleges of Pharmacy in the Arab World and the 2nd International Conference of the Faculty of Pharmacy, University of Jordan. Amman, Jordan, October 2001.

- Regulatory situation of Herbal Medicines. 9th Jordanian Pharmaceutical Conference, Holiday Inn, Amman, Jordan, February/March 2000.
- Quality assurance in pharmacy education. The 1st International Conference on Clinical Pharmacy, Organized by the Faculty of Pharmacy & Medical Sciences, Amman University, Amman, Jordan, April 1998.
- Searching for novel antiprotozoal of natural origin: the various strategies. 1st Medicinal plants Conference. Organized by the Faculty of Pharmacy Applied Science University, Amman, Jordan, May 1998.
- Structural elucidation of some African rutaceous alkaloids: An integrated spectroscopical approach. 1st. African International Symposium on Alkaloids and Anthraquinones of African Medicinal Plants. Addis Ababa, Ethiopia, August 1985.

Invited Lectures at Conferences, Seminars & Workshops

- Pharmacovigilance of herbal medicine; some important considerations. Pharmacovigilance, workshop, National Medicines and Poisons Board, Khartoum, Sudan 2nd April 2014.
- Khalid, S.A. Defining, assessing and strengthening pharmaceutical sector competencies in Sudan. First Taskforce Meeting, WHO, Khartoum, Sudan, 9th January 2014.
- Pharmacy education in Sudan: the metamorphosis is well under way. 1st International Conference on Health, 24th – 27th February, 2012, Friendship Hall, Khartoum, Sudan.
- Pharmacy education in Sudan: which direction and how to proceed? The 6th Annual International Scientific Conference, Pharmaceutical Care: Putting the Patient First, Friendship Hall, Khartoum, Sudan, 21st – 23rd of February 2010.
- Drug discovery of antiparasitic agents. 1st University of Khartoum International Conference of Graduate Studies and Scientific Research. Friendship Hall, Khartoum, Sudan, March 2010.
- Novel trypanocidal molecules from Sudanese plants. Workshop on trypanocides: present challenges and future prospects, Khartoum, Sudan, July, 2010.
- Prophylaxis and treatment of pandemic influenza, University of Science & Technology, UST Main Auditorium, Omdurman, Sudan, December 2009.
- Regulation and legislation of traditional medicinal plants: a global view. Workshop on the regulation and legislation of herbal medicine. Organised by Pharmacy Administration, Ministry of Health in collaboration with WHO Regional Office. Bankers Hall, Khartoum, Sudan, July 2007.
- Pharmacy education in Sudan. The 2nd International Conference on Medical education. Friendship Hall, Khartoum, Sudan, March, 2007.
- Problems facing pharmaceutical research in Sudan. Faculty of Pharmacy Students' Union Academic Conference, Faculty of Pharmacy, University of Khartoum, November 2006.

- Neglected diseases: what are they and what should be done? Seminar Organized by University of Science & Technology in collaboration with General Directorate of Pharmacy, Ministry of Health. University of Science & Technology, Omdurman, June 2006.
- The role of natural products chemistry in drug discovery. One-day seminar, organized by the University of Science & Technology in collaboration with General Directorate of Pharmacy, Ministry of Health. University of Science & Technology, Omdurman, June 2006.
- Plants as sources of novel antiprotozoals: current research and future prospects. Prospects of Medical research in Sudan, Organised by University of Medical Sciences and Technology, El Sharjah Hall, Khartoum, Sudan, November 2005.
- Intellectual property and traditional knowledge: a catalyst for economic development. 1st Forum on the Intellectual Property, organized by World Intellectual Property Organization (WIPO) in collaboration with University of Khartoum, Khartoum, Sudan, August 2003.
- The critical elements in pharmacy education. Workshop on curriculum development. Organized by the Faculty of Pharmacy in collaboration with WHO, Meridian Hotel, Khartoum, Sudan. January 1994.
- Pharmacy education in the Sudan: past, present and future. 2nd Sudanese Pharmaceutical Conference. Friendship Hall, Khartoum, Sudan. January 1994.
- Therapeutic potential of plant antimalarials. Malaria in Sudan: Impact of the disease, treatment and control. Organized by the Sudanese Society of Bioscience & Biotechnology. Baghdadi Theatre, Faculty of Medicine, University of Khartoum, Sudan, June 1992.
- Naturally occurring goitrogenic agents. Nutrition Workshop organized by Ministry of Health. Grand Hotel, Khartoum, Sudan, November 1991.
- Sudanese food with goitrogenic activity. Workshop on Iodine Deficiency (IDD). Organized by the Endemic Goiter Control Project. Grand Hotel, Khartoum, Sudan, November 1991.
- Traditional medicine and its significance. The opening address. Five-day Seminar on Traditional Medicine, organized by Ministry of Culture and Information in collaboration with Hanns Seidel Foundation. Khartoum, Sudan, October 1991.
- Traditional Medicine: an integral component of primary health care system. Five-Day Seminar on traditional medicine organized by Ministry of Culture and Information in collaboration with Hanns Seidel Foundation. Khartoum, Sudan, October 1991.
- Traditional medicine in the Sudan: The herbal component. Two-Day Seminar on Traditional Medicine. Organized by the Traditional Medicine Society of the Faculty of Medicine. El Sharjah Hall, Khartoum, Sudan, August 1990.
- Gum Arabic Industry in the Sudan: A troubleshooting Program. 1st Gum Arabic Conference. El Obeid, Sudan, February, 1990.
- Presented the recommendations on Sudan List of Essential Drugs. WHO Seminar Khartoum, Sudan, November 1985.

Chaired Conferences & Symposia

- Chaired Opening and Closing Sessions, 15th Natural Products Research Network (NAPRECA) symposium. Telecom Tower, Khartoum, Sudan, 7th -10th December 2013.
- Chaired a session on “Regulation of the use of medicinal plants and herbal preparations in Khartoum state” and closing session, Workshop organized by Medicinal and Aromatic Plants Administration, Directorate General of Pharmacy, Federal Ministry of Health, Al Salam Rotana, Khartoum, Sudan, November 2013.
- Chaired session entitled “Natural Products against neglected diseases”, 61st International Conference of the Society of Medicinal Plant and Natural Product Research, Münster, Germany, 1st – 5th September, 2013.
- Chaired session entitled: “Actinomycetoma therapeutics” and the final closing remarks of the 5th International Conference on Mycetoma, Mycetoma Research Centre, Soba, Sudan, April 1 -4, 2011.
- Session on International Organization for Chemical Sciences in Development (IOCD) 2011 Symposium, African Plants: Unique sources of drugs, agrochemicals, cosmetics and functional foods, Cape town, South Africa 12 – 16 January 2011.
- Session on Oncology Pharmacy, 2nd Oncology Conference, Organized by Radio Isotope Centre Khartoum (RICK), Friendship Hall, Khartoum, 3-5 December, 2010.
- Workshop on Trypanocides: Present Challenges & Future Prospects. Khartoum, Sudan, 28 – 29 July, 2010.
- Chairing the opening session, North Eastern Africa Regional Humboldt-colloquium, organized by the Alexander von Humboldt Foundation and University of Khartoum, U of K Auditorium, Khartoum North, Sudan, 23 -26 November 2008.
- Pharmacy education in Sudan, the 2nd International Conference of Medical Education in Sudan, Friendship Hall, Khartoum, Sudan, March 2007.
- The 25th Scientific Conference of the Arab Pharmacists Union, Organised by Sudanese Pharmacists Union, Khartoum, Sudan December, 2005.
- The 1st International Conferences on Medical education, Friendship Hall, Khartoum, Sudan, February, 2005.
- The 1st International Conference on Clinical Pharmacy, Organized by the Faculty of Pharmacy, University of Jordan, Amman, Jordan, April, 1998.
- The 2nd International Workshop on Isolation and Structure Elucidation of Natural Products Using Spectroscopic Techniques. Karachi, Pakistan, January 1987.
- Drug resistance: from Plasmodium to Pneumococci. A two-day symposium on research collaboration. Copenhagen, Denmark. September 1996.
- Expert Consultation on Non-Wood Forest Products. Organized by Food and Agriculture Organization (FAO) and Ministry of Forestry, Chaired Africa & Middle East Group Sessions. Yogyakarta, Indonesia. January 1995.
- Chairman, Malaria and Leishmaniasis Conference, Faculty of Medicine, University of Khartoum, Organized by the Sudanese Society of Tropical Medicine & Hygiene, Khartoum, Sudan, 10-11 September, 1994 .
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Ali, H., Schmidt, T.J, **Khalid, SA.** Profiling the antiplasmodial polyphenolic fraction of *Anogeissus leiocarpus* leaves by LC/PDA/ESI-MS/MS. The 15th Natural Products Research Network (NAPRECA) Symposium. Telecom Tower, Khartoum, Sudan, 7th -10th December 2013. Book of Abstracts, p. 88.

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Abd Algafar, SO., Ali, H., **Khalid, SA.** RP-HPLC-DAD/MS/MS-based metabolic profiling of glycogen phosphorylase inhibitory active fractions of *Nauclea latifolia* Stem bark. The 15th Natural Products Research Network (NAPRECA) symposium. Telecom Tower, Khartoum, Sudan, 7th -10th December 2013. Book of Abstracts, p. 97.

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