

CURRICULUM VITAE

1. PERSONAL DATA

Name: Mustafa Idris Elbashir Ali

Date of Birth: 06.04.1954

Place of Birth: Sudan

Nationality: Sudan

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2. ACADEMIC/PROFESSIONAL PARTICULARS

Academic Qualifications:

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| 1980 | Bachelor of Medicine and Surgery (MBBS) University of Khartoum |
| 1991 | Doctor of Medical Sciences in Medical Biochemistry (PhD), Faculty of Medicine, University of Lund, Sweden |
| 1997 | Nordic Diploma course in Tropical Medicine, Huddinge Hospital, Karolinska Institute, Stockholm, Sweden |

Academic Honours and Awards:

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| 2005 | Awarded the top annual national prize in Sudan 'Elshaheed Elzubair prize' for my research on malaria. Our research group identified the malaria parasite resistance to chloroquine which was used as first line drug for treatment of falciparum malaria. |
| 2001 | The prize of the best scientific book translated in Arabic language in the year 2001. The prize was offered by the Kuwait Foundation for the Advancement of Sciences for myself and three others for translating the well-known biochemistry text book (Harper) in 2001. |

3. CAREER DETAILS

Academic and Professional Positions

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| 2004 - current | Full Professor of Medical Biochemistry, Faculty of Medicine, University of Khartoum |
| 2012 - 2017 | Assistant Secretary General, Association of Arab Universities |
| 2009 - 2011 | Vice Chancellor, University of Khartoum |
| 2007 - 2009 | Dean of Faculty of Medicine, University of Khartoum |
| 2005 - 2007 | Director of Directorate of Scientific Research and Cultural Relations, University of Khartoum |

1995 - 2005	Head of Department of Biochemistry, Faculty of Medicine, University of Khartoum, Sudan
2004	Full Professor of Medical Biochemistry, Faculty of Medicine, University of Khartoum
1996- 2004	Associate Professor of Medical Biochemistry, Department of Biochemistry, Faculty of Medicine, University of Khartoum
1991- 1996	Assistant Professor of Medical Biochemistry, Department of Biochemistry, Faculty of Medicine, University of Khartoum
1985-1991	Teaching and Research Assistant, Department of Medical and Physiological Chemistry, Faculty of Medicine, University of Lund, Sweden
1983-1984	Teaching assistant, Department of Biochemistry, Faculty of Medicine, University of Khartoum-Sudan
1982-1983	Medical Officer, Children Emergency Hospital, Khartoum Sudan
1980-1981	Internship at Khartoum Teaching Hospital: Neurosurgery (3 months), Internal Medicine (3 months), Obstetrics and gynaecology (3 months), and General surgery (3 months)

Administrative Positions Held at the University of Khartoum

2004 – current	Member of the Editorial Board of the University of Khartoum Medical Journal
1995 – current	Member of the University of Khartoum Senate
1995 – current	Member of the Faculty Board of the Faculty of Medicine
1995 – current	Member of the Faculty of Medicine Research Board
1995 – current	Member of the Faculty Board of Medicine Curriculum- Committee
1995 – 2005	Head, Department of Biochemistry, Faculty of Medicine, University of Khartoum
1992 – 1995	Postgraduate academic secretary, with duties of organizing seminars, Journal clubs and lectures at the Department of Biochemistry, faculty of Medicine, University of Khartoum, Sudan
1991 – 1993	Examination Secretary with duties of supervising all administrative aspects of examinations held by the Department of Biochemistry, Faculty of Medicine, University of Khartoum

Contribution to relevant institutions and to the profession

2002 – present	Member of the African Malaria Network Trust (AMANET). It is an African malaria network based in Daresalam, Tanzania. It has been able to mount several short-term training workshops in order to build capacity essential for evaluating malaria vaccine candidates meeting international quality standards.
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- 2002 – present** Member of the steering committee of the Malaria Immunology and Pathogenesis Consortium in Africa (MIMPAC). It is a network of African scientists sharing a common interest in capacity building and research focused on malaria immunology and pathogenesis in Africa with the goal to increase awareness and support of research in immunology and pathology of malaria and to promote the utilization of its research finding
- 2001 - 2002** Member of Health Task Force for East Africa Region, affiliated to the Regional Office of the International Federation of the Red Cross and Red Crescent Societies, Nairobi, Kenya. I participated in the design of health plan adopted by the Red Cross and Red Crescent Societies in the region which was mainly focused on HIV/AIDS and Malaria
- 2001-2002** Vice president of the Health Commission of International Federation of the Red Cross and Red Crescent (IFRC), Geneva, Switzerland. I participated in the development of the health plan for the federation which was mainly directed towards control of major diseases in the third world, HIV/AID, malaria, tuberculosis, diarrheal diseases
- 2000- 2002** President of the Sudanese Red Crescent Society. I represented the society in many national, regional and international conferences (volunteer)
- 1997** Visiting lecturer of Biochemistry for three months at the University of Science and Technology, Sanna, Yemen
- 1997** External examiner for several PhD theses at the University of Gazera, Nilein, Sanaa, Yemen
- 1996** Member of committees for design of curricula for the faculties of medicine at the Universities of Kordofan, Nilein, Gadarif, Rabat, and Dungula
- 1993** Teaching Medical Biochemistry, as part-time teacher, to undergraduate medical students at Universities of Juba, Bahr Elghazal, Shendi, Kassala, Kordofan, Nilein, Dungula and University of Medical Science and Technology
- 1992** External examiner for Medical examinations at the faculty of medicine of Juba, Shendi, Kasala, Omdurman Elislamia, Bahr Elghzal, Nilein and Kordofan

4. TEACHING

Summary of Courses Taught

- 2000** The committee for revision, updating and breaking down the curriculum of Biochemistry, University of Khartoum Head of committee
- 1991 – present** Medical Biochemistry. Undergraduate Courses included: Chemistry of biomolecules, biochemical techniques, metabolism of carbohydrates, lipids, amino acids, integration and hormonal regulation of mammalian metabolism, immunochemistry and genetics, taught to undergraduate medical, dental and pharmacy students. University of Khartoum
- 1991 – present** Postgraduate MSc by course, MSc by research and PhD students. University of Khartoum

- 1991 – present** Postgraduate teaching Biochemistry courses included: University of Khartoum
 Biochemical techniques, integration and hormonal regulation of mammalian metabolism, special tissue metabolism; the liver, the brain, the adipose tissue, the red blood cell, the muscles, cancer biochemistry and metabolism of xenobiotics.
- 1991 – present** Postgraduate teaching Immunology courses included: University of Khartoum
 Cells of the immune system, innate and adaptive immune responses, immunoglobulins' structure and function, diversity of immunoglobulins and T cell receptors, major histocompatibility complex molecules, complement pathways, cytokines classes and functions, molecular and cellular cooperation in the immune response, immunity to parasitic diseases with special reference to the malaria parasite.
- 1991 – present** Postgraduate teaching Molecular Biology courses included: University of Khartoum
 Replication, transcription, control of gene expression, and recombinant DNA technology.

5. PARTICIPATION IN COURSES, WORKSHOPS AND SIENTIFIC MEETINGS:

A. In preparation for PhD

- 1986** Gene Manipulation Techniques Course, August 1986. This was a 10 weeks' full-time course at the Department of Microbiology, University of Lund, Sweden. The course involved extraction of DNA and mRNA from tissues, cloning and expression of genes prepared from DNA, or cDNA prepared by reverse transcriptase. It involved also practical on DNA hybridization and sequencing techniques.
- 1987** Mechanism of Insulin Action: An International Conference where the hormonal signal transduction for insulin was discussed in detail, Falsterbo, Sweden June 1987.
- 1987** Hormone Receptor Preparation and Characterization Techniques, 4 weeks course. It involved preparation of receptors from tissue homogenate using various biochemical techniques with especial emphasis on growth hormone receptor from rat liver, Department of Medical & Physiological Chemistry, University of Lund Sept. 1987.
- 1988** Hormone Sensitive Lipase Characterization, International Conference, Falsterbo, Sweden June 1988.
- 1988** Monoclonal Antibodies Applications and Techniques: two weeks course with lectures and practical on monoclonal antibodies preparation and uses, Department of Immunology, Stockholm, Sweden Nov. 1988.

B. Attendance of courses, workshops and Scientific Meetings after PhD

- 1994** Malaria Parasite Culture and Metabolic labelling of parasite molecules: two months course where I learned how to make long term malaria parasite cultures and studied some of the metabolic activity in the growing parasite by addition of radiolabelled metabolites to the culture media, Department of Medical Parasitology, University of Copenhagen, Denmark, Feb-April 1994.
- 1999** Scientific Meeting of European Commission-supported malaria research projects, Heidelberg Germany Sep. 1999. As the Sudanese coordinator I presented a report on the project entitled "*Immunity to Plasmodium falciparum malaria in African villages: longitudinal immunological, epidemiological and parasite genetic studies*" on behalf of the Department of Biochemistry, Faculty of Medicine, University of Khartoum. The European Commission supported this project with \$ 617000 US Dollars.
- 2000** African Malaria Vaccine Testing Network (AMVTN) workshop. Venue: Bagamoyo, Tanzania, 28 February. 2000 - 1 March 2000. The workshop was on Good Clinical Practice and Clinical Trials Methodology. It covered important issues such as history, laws, regulations, ethics of clinical and field research, preparation of research protocols, informed consent, monitoring of longitudinal studies, documentation of findings of clinical field research etc.
- 2000** Protocol Development Workshop on anti-malarial combination therapy, organized by WHO/TDR/ Drug Resistance and Polices Department, Geneva. Venue: Bamako, Mali, 22-26 May 2000. The workshop was a gathering of scientists involved in research on malaria chemotherapy, from Africa and the North. It was one of WHO headquarters initiatives to face the growing threat of antimalarial drug resistance globally and especially in Africa where the first line drug (chloroquine) has shown failure in many countries. Different protocols on antimalarial combination therapy were discussed in addition to the potential sites for pilot studies. Following that Workshop, we carried out a WHO supported study on malaria combination therapy in eastern Sudan (Gadarif and New Halfa) which resulted in several publications in the list below.
- 2000** Workshop on Immunology and Pathogenesis of malaria Noguchi Memorial Institute for Medical Research, University of Ghana, Ghana 26 Nov – 3 Dec. 2000 organized by Multilateral Initiative on Malaria in Africa (MIM /TDR/WHO). The participants were African scientists and their associates who received grants from TDR/WHO and involved in malaria immunology and pathogenesis research. The workshop involved lectures, presentations and laboratory work on advanced immunological techniques including ELISPOT and FACS. In the same meeting we formed the MIMPAC (Malaria Immunology and Pathogenesis Consortium). I am a member of the steering committee of the consortium since then.
- 2001** Meeting PIs of MIM/TDR/WHO supported projects on malaria Harare, Zimbabwe, March 2001. The meeting was for the MIM Task Force to evaluate the progress reports of MIM supported projects on malaria in Africa. In this meeting I presented the first report of our

research on malaria immunology and pathogenesis which received support from MIM/TDR/WHO ((\$ 60000 US Dollars). The report was accepted, and renewal support was approved with \$70000 US Dollars.

- 2001** MIMPAC workshop on development of complementary research proposals in the area of malaria immunology and pathogenesis, Lambarene, Gabon, 1- 6 Oct 2001. The workshop was funded by the MIM/TDR/WHO. Myself, and other principle investigators composing the MIMPAC delivered oral presentations of the suggested proposals. The workshop emphasized the importance of complementarity of the research carried by the different groups in the consortium, harmonization of laboratory protocols, exchange of students training, design of relevant workshops, and maximum usability of available capital equipments in each partner's laboratories. Two of proposals developed by the consortium in this workshop (exchange of student training and organization of two workshops) were approved for support by MIM/TDR/WHO.
- 2002** Genomics and public health policy course organized by the African Centre for Technology studies (ACTS) and the Joint Centre for Bioethics, University of Toronto, Canada. Venue: Nairobi, 4-8 Mars 2002. The course covered the current status and implications of health genomics/biotechnology and provided information relevant to public policy on health genomic/biotechnology. It also provided frameworks for analyzing and debating the policy issues and related ethical questions in health genomics/biotechnology, and it provided participants with knowledge to understand, anticipate and possibly influence the legal and regulatory frameworks under which health biotechnology industries will operate. The course resulted in the formation of an African Forum of Genomics and Biotechnology (AFGB) through which the participants are very well connected, and we are getting through this forum the latest information in the area of genomics and public health. This link is still maintained until now (2021).
- 2002** The first African Health leadership workshop, 7-18 Oct 2002, Arusha, Tanzania. The workshop was organized by the Multilateral Initiative on Malaria in Africa (MIM/TDR/WHO) and the African Malaria Network Trust (AMANET). The participants were leaders of malaria research in Africa. The workshop addressed the issue of management and leadership skills through a program of training, mentorship, and development of a virtual network of malaria research institutions in Africa. The training focused on the skills and attitudes required for effective leadership of a research institution.
- 2003** The Task Force on Malaria Research Capability Strengthening in Africa (MIM/TDR/WHO) meeting, 10 - 14 Mars 2003, Maputo, Mozambique. Oral presentation: progress report on the WHO funded project entitled "*Description of the clinical features and immunopathology of severe malaria in area of unstable transmission in Sudan*". The report was accepted by the Task Force and extension of the project was approved.
- 2004** MIMPAC Steering Committee meeting 19-22 February 2004, Tubingen, Germany. The meeting was supported by MIM/TDR/WHO. Reports on the progress of research were presented and more collaboration was discussed.

C. Participation in Regional & International Conferences

- 2019** TICAD-7 post forum in Kumamoto OCT 19th, 2019. Promoting cooperation on creating comfortable and healthy living environment in Africa by utilizing knowledge and experience in Japan. **Oral presentation:** cooperation to reduce the burden of endemic diseases in Africa
- 2018** The 4th international symposium on pharmaceutical and biomedical sciences 17-19 March 2018, School of Pharmacy, Kumamoto University, Japan. **Oral presentation:** Our experience on clinical trials in Sudan; antimalarial drugs, sickle cell disease and drug resistant epilepsy.
- 2013** First Arab-Euro Conference on Higher Education, Barcelona, Spain 30-31 May 2013, joint activity between Association of Arab universities, European University Association and University of Barcelona, member of the organizing committee
- 2013** Ethics in Higher Education and Scientific Research One Day Symposium, The Arab Academy for Science and Technology and Sea Transport, Alexandria, Egypt 28th March 2013, I represented Association of Arab Universities and delivered a talk in the opening ceremony.
- 2013** Launch of the EFA Global Monitoring Report 2012 “youth and skills: Putting education to Work” Arabic Version, Cairo, 1st April 2013. I represented the association of Arab Universities and participated in the discussions and final resolutions.
- 2013** The International Higher Education Conference in the Arab World-Future Horizons, Gaza, Palastine, 15-18 Jan 2013, I represented Association of Arab Universities and delivered a talk in the opening ceremony.
- 2012** Conference of Arab Expatriate scientists, under the title “When Arab Minds Integrate” Cairo, 19-20 December 2012, the league of Arab States in collaboration with the Society for Advancing Science and Technology in the Arab World (SASTA). I represented the association of Arab Universities and participated in the discussions and final resolutions.
- 2012** International Conference of NGOs/ UNESCO Headquarters, 12-14 December 2012 under the title: Reconciling Diversity and Universality, I represented the association of Arab Universities.
- 2012** Arab Malaysian Global Higher Education Summit, Leadership in the Islamic Higher Education Institutions in the Era of Globalization 4-5 Oct 2012. **Oral presentation:** Role of higher education in restoration of the leading role of Islamic Ummah in the progress of knowledge today
- 2012** The First International Conference on Role of Open and Distant Learning on Development, Bani Sweif University, Egypt, 15- 16 May 2012, I represented the Association of Arab Universities and addressed the opening ceremony
- 2012** Casemix System in health services workshop. It was a two days’ workshop in collaboration with United Nations University, Malaysia, held in Amman, Jordan 18-19 April 2012, I was the

major coordinator and delivered **oral presentation** entitled: Casemix system for quality and efficiency in health services

- 2012** The Symposium on Environmental Problems in the Arab World: Meeting Challenges of Sustainable Development; 26-28 February 2012 Muscat Sultanate of Oman, I represented the Association of Arab universities and addressed the opening ceremony.
- 2012** A holistic Approach to Achieve Quality in Higher Education, two days' workshop 11-12 Jan 2012 organized in collaboration with the British Council, Amman, Jordan. I participated in preparations and attended the sessions.
- 2003** The Benzon Symposium, number 50 under the title, "The Lipocalin Protein Superfamily" conference, 24 – 28 August 2003, Copenhagen, Denmark. Poster presentation under the title: Human neutrophil lipocalin: a specific marker for neutrophil activation in severe Plasmodium falciparum malaria.
- 2003** Endemic and Infectious Diseases in Sudan Conference, 5 – 8 May 2003 Khartoum, Sudan. **Oral presentation** entitled: "The history of malaria research in the Sudan, major achievements and challenges".
- 2002** The third MIM Pan-African Malaria Conference, 17-22 Nov 2002, Arusha, Tanzania. **Oral presentation:** Comparison of intramuscular artemether with intravenous quinine in the treatment of severe malaria in Sudan.
- 2002** International AID Conference August 2002 Barcelona, Spain. **Oral presentation:** Role of NGOs leadership in raising awareness of the public against AIDS.
- 2001** 11th International Congress of Immunology, Stockholm, 22-27 July 2001. **Oral presentation** under the title: "Binding of human haptoglobin to antigen preparation from Plasmodium falciparum". The abstract was published as a supplement to the Scandinavian Journal of Immunology, Vol 54, Supp1, Jul/August (2001), 129.
- 2001** Annual Sudanese Society of Pathology and Microbiology Conference, Khartoum 27-29 March 2001. **Oral presentation** under the title "In Sudan: Chloroquine resistance is worsening, and quinine resistance is emerging".
- 1999** Multilateral Initiative on Malaria in African Conference, Durban, South Africa 14 – 19 March 1999. **Oral presentation:** Elbashir M I. Association of the haptoglobin phenotype (1-1) with falciparum malaria in Sudan. Proceedings of MIM African Malaria Conference, (1999), C-58.

6. RESEARCH

Research Students Supervised/Trained

More than forty students obtained MSc degree and more than twenty students obtained PhD degree under my supervision through involvement in various research projects (see the list of publication below).

Research Interests and Grants

The first three projects in the list below were executed during my PhD studies. The rest of the projects are mainly focused on therapeutics, susceptibility to infection, and immunopathology of falciparum malaria in Sudan. Also, I participated in research on sickle cell disease, and viral infections. Thus, the projects from 4 to 10 constitute my ongoing research activities from 1992 until present, and involve many collaborators at national and international levels. Our collaborators include scientists from Sweden, Denmark, Germany, Netherland, Japan, England, and USA as shown in the list of publications below.

1. **Characterization of the human growth hormone receptor using monoclonal anti-idiotypic antibodies:** my PhD project at the Department of Physiological Chemistry, Faculty of Medicine, University of Lund, Sweden.
2. **Immunoglobulin-binding bacterial proteins (protein G and protein L) as detectors of specific antibody response:** This project was supported by grants from the Swedish Medical Research Council (project no. 7144 and 7480), Kung Gustav V:s 80ars Foundation, the Faculty of Medicine, University of Lund, the Swedish Medical Association, the Foundation of Osterlund, Johansson and Koch, High Tech Receptor. AB, Malmo, Sweden, and the National Swedish Board for Technical Development.
3. **Production and Characterization of monoclonal anti-idiotypic antibodies to the pituitary growth hormone receptor.** This project was Supported by grants from the Swedish Medical Research council (grant no. B-88-13X-0828-01A), the Faculty of Medicine, University of Lund, Kabi Vitrum AB, the Swedish Medical Society, the Foundation of Magnus Bergvall, the Foundation of Lars Hierta and the foundation of Albert Pahlsson.
4. **Acute phase proteins and susceptibility to malaria infection with special emphasis on haptoglobin:** We have been able to show association between haptoglobin phenotype (1-1) and susceptibility to falciparum malaria. Through this project and under my supervision several students obtained MSc and PhD degrees and resulted in several publications in the list below. The project received partial support from UNDP/World Bank/WHO Special programme for Research and Training in Tropical Diseases (TDR).
5. **Antimalarial drug efficacy and resistance.** This project had been going on under my supervision in eastern Sudan in collaboration with New Halfa and Gadarif hospitals. It involved several MSc and PhD students. It resulted in several publications in the list below. It received partial support from EMRO/WHO and from DAAD.
6. **Epidemiology of malaria during pregnancy in an area of seasonal and unstable malaria transmission in New Halfa, Eastern Sudan.** It was initiated by me in collaboration with Professor Ishag Adam, Gynecologist, who worked in New Halfa hospital and involved several MSc and PhD students. It resulted in several publications in the list below. It received partial support from EMRO/WHO.
7. **Immunity to Plasmodium falciparum malaria in African villages: longitudinal immunological, epidemiological and parasite genetic studies:** The European Commission supported this project with \$ 617000 US Dollars. It was collaborative research between two institutes from Europe (Institute of Cell, Animal and Population Biology, University of Edinburgh, U.K, and Institute of Medical Microbiology and Immunology, University of Copenhagen, Denmark); two African institutes (The Department of Biochemistry, Faculty of Medicine, University of Khartoum, and the Noguchi Memorial

Institute for Medical Research, Accra, Ghana). Many publications were produced from this project and several students were trained to the MSc and PhD level (Dr. Hayder Ahmed Giha and Dr. Gamila Ibrahim Ahmed, both are now PhD holders and members of the department staff, in addition to Dr. Amel Awad Hamad from the National Laboratory).

8. **Description of the clinical features and immunopathology of severe Malaria in area of unstable malaria transmission in Sudan.** It was a three-year collaborative project supported by the Multilateral Initiative on Malaria in Africa, Tropical Disease Research, World Health Organization (MIM/TDR/WHO). It was supported by a total of \$ 185000 US Dollars. The study was performed in Gadarif and New Halfa, Eastern Sudan, Oct 2000 -Oct 2003. Three graduate students at the Department of Biochemistry (teaching assistants) one PhD student from El-Imam Elmahadi University, one student from Juba University, one student from Africa International University were involved in this project as part of their PhD programme under my supervision. Several publications have been produced from this project as shown in the list below.
9. **Effect of Omega3-fatty acid supplementation in patients with sickle cell anemia:** It is a longitudinal study involving more than 200 patients of sickle cell disease whom we follow up regularly at Gaafar Ibnuof Children Hospital in Sudan. It is carried in collaboration with the Institute of Brain chemistry and Human Nutrition, London Metropolitan University, London, UK It involved several graduate students to the levels of MSc and PhD with very promising results to the patient, graduate training and transfer of technology (see the list of publications)
10. **Sporadic outbreaks of viral hemorrhagic fever and dengue.** Several collaborators from the University of Khartoum and USA. We confirmed the presence Crimean-Congo hemorrhagic fever, and rift valley fever virus. It is clinical, epidemiological and genetic study (see the list of publications below)
11. **Clinically and experimentally the practices of many herbal therapists in Sudan with special emphasis on malaria, HIV/AIDS and Covid-19:** In the last three years (2018 onwards) we got interested in Sudanese medicinal plants which are remarkably diverse and widely used. Although herbal therapy is extremely popular in Sudan, but it has not been scientifically verified. Together with Japanese collaborators from the Faculty of Pharmacy, University of Kumamoto, Japan we developed a research project to verify both clinically and experimentally the practices of many herbal therapists in Sudan with special emphasis on malaria, HIV/AIDS and Covid-19. The project has been discussed thoroughly in a workshop involving all stakeholders under the patronage of the Ministry of higher Education and Scientific Research in Sudan. Several graduate and post graduate students are involved in this project which requires more financial support.

7. LIST OF PUBLICATIONS

Publications/Citations Data: <http://www.ncbi.nlm.nih.gov/pubmed/?term=Elbashir+MI>

Number of Publications = 104

- 1- Eldigail MH, Abubaker HA, Khalid FA, Abdallah TM, Musa HH, Ahmed ME, Adam GK, **Elbashir, MI** and Aradaib, IE Association of genotype III of dengue virus serotype 3 with disease outbreak in eastern Sudan. Virology Journal (2020) 17; 118. <https://doi.org/10.1186/s12985-020-01389-9>
- 2- Elsayed LEO, Mohammed IN, Hamed AAA, Elseed MA, Salih MAM, Yahia A, Abubaker R, Koko M, Abd Allah ASI, **Elbashir MI**, Ibrahim ME, Brice A, Ahmed AE, Stevanin G. Novel Homozygous Missense Mutation in the ARG1 Gene in a Large Sudanese Family. Front Neurol. 2020 Oct 29; 11:569996. doi:10.3389/fneur.2020.569996. PMID: 33193012; PMCID: PMC7658625.
- 3- Charani E, Cunnington AJ, Yousif AHA, Seed Ahmed M, Ahmed AEM, Babiker S, Badri S, Buytaert W, Crawford MA, **Elbashir MI**, Elhag K, Elsiddig KE, Hakim N, Johnson MR, Miras AD, Swar MO, Templeton

- MR, Taylor-Robinson SD. In transition: current health challenges and priorities in Sudan. *BMJ Glob Health*. 2019 Aug 21;4(4): e001723. doi: 10.1136/bmjgh-2019-001723. PMID: 31543996; PMCID: PMC6730568.
- 4- Ibrahim FAS, Ghebremeskel K, Abdel-Rahman ME, Ahmed AAM, Mohamed IM, Osman G, Elseed M, Hamed A, Rabinowicz AL, Salih MAM, **Elbashir MI**, Daak AA. The differential effects of eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA) on seizure frequency in patients with drug-resistant epilepsy - A randomized, double-blind, placebo-controlled trial. *Epilepsy Behav*. 2018 Oct;87:32-38. doi: 10.1016/j.yebeh.2018.08.016. Epub 2018 Aug 28. PMID: 30170260.
 - 5- Elsayed LEO, Mohammed IN, Hamed AAA, Elseed MA, Salih MAM, Yahia A, Siddig RA, Amin M, Koko M, **Elbashir MI**, Ibrahim ME, Brice A, Ahmed AE, Stevanin G. Case report of a novel homozygous splice site mutation in PLA2G6 gene causing infantile neuroaxonal dystrophy in a Sudanese family. *BMC Med Genet*. 2018 May 8;19(1):72. doi: 10.1186/s12881-018-0592-y. PMID: 29739362; PMCID: PMC5941609.
 - 6- Awoda, sheikh, Daak, Ahmed, Husain, Nazik Elmalaika, Ghebremeskel, Kebreab, **Elbashir, MI** Coagulation profile of Sudanese children with homozygous sickle cell disease and the effect of treatment with Omega-3 fatty acid on the coagulation parameters. *BMC hematology* (2017) 17:18 DOI 10.1186/s12878-0089-5.
 - 7- Adam I, Salih MMA, Mohammed AA, Rayis DA, **Elbashir, MI** Pregnant women carrying female fetuses are at higher risk of placental malaria infection. *PLoS ONE* (2017)12 (7): e182394. <https://doi.org/10.1371/journal.pone.0182394>.
 - 8- Elsheikh H, Adam I, Elhassan EM, Mohammed, AA, Khamis,AH, **Elbashir,MI**: Leptin, insulin like growth factor-I levels and histology-diagnosed placental malaria in an area characterized by unstable malaria transmission in central Sudan. *F1000Research*. 2017, 6:736, (doi:10.12688/f1000research.10641.1)
 - 9- Elsayed LEO, Mohammed IN, Hamed AAA, Elseed MA, Johnson A, Mairey M, Mohamed HESA, Idris MN, Salih MAM, El-Sadig SM, Koko ME, Mohamed AYO, Raymond L, Coutelier M, Darios F, Siddig RA, Ahmed AKMA, Babai AMA, Malik HMO, Omer ZMBM, Mohamed EOE, Eltahir HB, Magboul NAA, Bushara EE, Elnour A, Rahim SMA, Alattaya A, **Elbashir MI**, Ibrahim ME, Durr A, Audhya A, Brice A, Ahmed AE, Stevanin G. Hereditary spastic paraplegias: identification of a novel SPG57 variant affecting TFG oligomerization and description of HSP subtypes in Sudan. *Eur J Hum Genet*. 2016 Jan;25(1):100-110. doi: 10.1038/ejhg.2016.108. Epub 2016 Sep 7. PMID: 27601211; PMCID: PMC5159756
 - 10- Daak AA, Elsamani E, Ali EH, Mohamed FA, Abdel-Rahman ME, Elderderly AY, Talbot O, Kraft P, Ghebremeskel K, **Elbashir MI**, Fawzi W. Sickle cell disease in western Sudan: genetic epidemiology and predictors of knowledge attitude and practices. *Trop Med Int Health*. 2016 May;21(5):642-53. doi: 10.1111/tmi.12689. Epub 2016 Mar 29. PMID: 27028397.
 - 11- Elsayed LE, Drouet V, Usenko T, Mohammed IN, Hamed AA, Elseed MA, Salih MA, Koko ME, Mohamed AY, Siddig RA, **Elbashir MI**, Ibrahim ME, Durr A, Stevanin G, Lesage S, Ahmed AE, Brice A. A Novel Nonsense Mutation in DNAJC6 Expands the Phenotype of Autosomal-Recessive Juvenile-Onset Parkinson's Disease. *Ann Neurol*. 2016 Feb;79(2):335-7. doi: 10.1002/ana.24591. Epub 2016 Jan 19. PMID: 26703368.
 - 12- Daak, AA, Elderderly, AY, Elbashir, LM, Mariniello, K., Mill, J, Scarlett, G, **Elbashir MI**, Ghebremeskel, K, Omega 3 (n-3) fatty acids down-regulate nuclear factor-kappa b (NF-kB) gene and blood cell adhesion molecules expression in patients with homoxygous sickle cell disease, *Blood cells, Molecules, and Diseases* (2015), doi: 10.1016/j.bcmed.2015.03.014
 - 13- Daak, AA, Ghebremeskel, K., Mariniello, K., Attallah, B., Clough, P., **Elbashir,MI** Docosahexaenoic and eicosapentaenoic acid supplementation does not exacerbate oxidative stress or intravascular

haemolysis in homozygous sickle cell patients, Prostaglandins Leukotrienes Essent. Fatty acid (2013) <http://dx.doi.org/10.1016/j.plefa.2013.09.006>

- 14- Osman, HAM, Eltom, KH, Musa, NO, Bilal, NM, **Elbashir, MI** and Aradaib,IE Development and evaluation of loop-mediated isothermal amplification assay for detection of Crimean Congo hemorrhagic fever virus in Sudan J Viro Met 190 (2013) 4-10.
- 15- Elagib, AA, Mirgani, HA, Shamsaldien, NM, Khir, FM, Attallah, BM, and **Elbashir, MI** Is resistance to P. Falciparum infection in sickle cell trait (AS) individuals related to the presence of high frequencies of hap [toglobin Hp2-1? Am J Sci Ind Res 2013, 4(2): 253- 256.
- 16- Aradaib IE, Erickson BR, Elageb RM, Khristova ML, Carroll SA, Elkhidir IM, Karsany ME, Karrar AE, **Elbashir MI**, Nichol ST Rift valley Fever, Sudan, 2007 and 2010. Emerg Infect Dis. 2013;19(2):246-53
- 17- Daak AA, Ghebremeskel K, Hassan Z, Attallah B, Azan HH, **Elbashir MI**, Crawford M. Effect of omega-3 (n-3) fatty acid supplementation in patients with sickle cell anemia: randomized, double-blind, placebo-controlled trial. Am J Clin Nutr. 2013; 97(1):37-44.
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8. SERVICE

Membership of Institutional, National, or International Scientific Advisory Boards and Professional Bodies

1996	Curriculum committee for the faculties of medicine at the Universities of Kordofan, Nilein, Gadarif, Rabat, and Dungula	Member of committees for design of curricula
2000-2002	The Sudanese Red Crescent Society- I represented the society in many national, regional and international conferences.	President
2001-2002	The International Federation of the Red Cross and Red Crescent Societies, Nairobi, Kenya.	Member of Health Task Force for East Africa Region affiliated to the Regional Office
2001-2002	The Health Commission of International Federation of the Red Cross and Red Crescent (IFRC), Geneva, Switzerland	Vice president
2000-current	The Malaria Immunology and Pathogenesis Consortium in Africa (MIMPAC)	Member of the steering committee
2002-current	The African Malaria Network Trust (AMANET)	Member

Service as Reviewer

I am acting as referee for several journals in the fields of tropical medicine and biochemistry including *Am J Trop Med Hygei*, *Acta Tropica* and *Malaria Journal*.

Membership of Journal Editorial Boards

I used to be the Chief in Editor of the *Journal of Association of Arab Universities*

Books/Book Chapters

- 2004** Mustafa Idris Elbashir and Abdel Muhsin Abdel Gadir Abdel Muhsin. Molecular biology for medical students: laboratory manual (2004), UMST Printing Press.
- 2001** Translation of five chapters from Harper Biochemistry, the 24th edition. 2001, MTC, Damascus. It is the main reference textbook for medical students in many of the medical schools globally including our school. The translation was a collaborative work which involved colleagues from Syria and Sudan. The book won the prize of the best scientific book translated to Arabic language in the year 2001 from the Kuwait Foundation for the Advancement of Sciences.
- 1991** Detection of antibody response with immunoglobulin-binding bacterial proteins and generation of monoclonal antibodies to the growth hormone receptor. Faculty of Medicine, University of Lund, Sweden.