

CURRICULUM VITAE



1. GENERAL.

- Name: Mohammed Hamza Zain Elabdein Seed Ahmed ●
Academic Title: Associate Professor of Physiology
- Specialities:
 - ✓ Medical and Human Physiology
 - ✓ Medical Education
- Date of Birth: October 06, 1980
- Place of Birth: Kadugli
- Nationality : Swedish
- Sex: Male
- Language: Fluent Speaking & Writing Arabic and English
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2. COMPUTER LITERACY:

Intermediate Diploma in Computer Application Management (November 07December 15, 1998) after completing the following courses: Introduction & Operation, Microsoft Windows, Microsoft Word, Microsoft Excel, and Introduction to Management Organization

3. ACADEMIC QUALIFICATIONS:

1. First University Degree, April 14, 2005
Degree: Bachelor of Medicine & Surgery (M.B.B.S.) University: University of Khartoum, Khartoum, Sudan
Faculty: Medicine
2. Master of Science (M.Sc.), July 12, 2013
Degree: Master of Medical Science with a major in Medical Education
University: Karolinska Institutet, Stockholm, Sweden
Department: Learning, Informatics, Management and Ethics
Thesis title: Towards student-centred educational practice: developing teaching and learning in Sudan medical schools; a scholarly approach
3. Doctor of Philosophy (Ph.D.), December 13, 2013
Degree: Ph.D. in Medical Science
University: Karolinska Institutet, Stockholm, Sweden
Department: Molecular Medicine and Surgery
Thesis title: Functional and Genetic Studies in Type 2 Diabetes and Obesity

4. OTHER CERTIFICATES OR ADVANCED COURSES

AURENDED:

1. IMBABI Severe Trauma Instruction Course.
2. Advanced Life Support (ALS provider course).

5. EMPLOYMENT:

1. Medical Intern (Federal Ministry of Health, Sudan) from December 01, 2005 until May 05, 2007.
2. Teaching Assistant at the Department of Physiology, Faculty of Medicine, University of Khartoum, Khartoum, Sudan, from March 04, 2006 until February 01, 2014.
3. Ph.D. Student in the Endocrine and Diabetes Unit, within the Department of Molecular Medicine and Surgery at Karolinska Institutet, Stockholm, Sweden, from May 05, 2009 until December 13, 2013.
4. Postdoctoral Research Fellow in the Endocrine and Diabetes Unit, within the Department of Molecular Medicine and Surgery at Karolinska Institutet, Stockholm, Sweden, from December 14, 2013 until February 28, 2014.
5. Assistant Professor at the Department of Physiology, Faculty of Medicine, University of Khartoum, Khartoum, Sudan, from February 02, 2014 to November 05, 2017.
6. Postdoctoral Research Fellow in the Division for Neurogeriatrics, within the Center for Alzheimer Research at the Department of Neurobiology, Care Sciences and Society, Karolinska Institutet, Stockholm, Sweden, from May 01, 2014 until August 31, 2015.
7. Visiting Research Fellow in the Wolfson Centre for Age-Related Diseases, within the school of Biomedical Sciences at King's College London, London, England, United Kingdom, from May 13, 2014 until May 12, 2015. (This work has been undertaken as part of a long-standing collaboration between Karolinska Institutet in Stockholm, Sweden, and King's College London in the field of dementia research.)
8. Visiting Research Fellow in the Wolfson Centre for Age-Related Diseases, within the Institute of Psychiatry, Psychology, & Neuroscience at King's College London, London, England, United Kingdom, from May 13, 2015 until May 12, 2018. (This work has been undertaken as part of a long-standing collaboration between Karolinska Institutet in Stockholm, Sweden, and King's College London in the field of dementia research.)
9. Lecturer/Educational Developer in the Unit for Medical Education and Technology, within the Centre for Learning and Knowledge at the Department of Learning, Informatics, Management and Ethics, Karolinska Institutet, Stockholm, Sweden, from September 01, 2015 until June 30, 2018.
10. Research Coordinator in the Clinical Epidemiology Unit, within the Department of Medicine, Solna at Karolinska Institutet, Stockholm, Sweden, from February 01, 2016 until July 31, 2016.

11. Associate Professor at the Department of Physiology, Faculty of Medicine and Surgery, National University, Khartoum, Sudan, from November 06, 2017 to present.
12. Acting Head of the Department of Physiology, Faculty of Medicine, University of Khartoum, Khartoum, Sudan, from March 11, 2018 until May 03, 2018.
13. Acting Director of the Educational Development Centre for Health Professions, Faculty of Medicine, University of Khartoum, Khartoum, Sudan, from October 28, 2018 until November 04, 2018.
14. Coordinator for International and External Relations at the Dean's Office, Faculty of Medicine, University of Khartoum, Khartoum, Sudan, from December 06, 2018 to present.
15. Acting Director of the Educational Development Centre for Health Professions, Faculty of Medicine, University of Khartoum, Khartoum, Sudan, from March 25, 2019 until April 25, 2019.
16. Vice-Dean of the Faculty of Medicine and Surgery, National University, Khartoum, Sudan, from June 17, 2019 to present.
17. Head of the Department of Physiology, Faculty of Medicine and Surgery, National University, Khartoum, Sudan, from August 06, 2019 to present.

6. TEACHING AND LEADERSHIP EXPERIENCE:

1. Teaching medical students in the physiology laboratories and small groups.
2. Conducting physiology lectures for medical and paramedical courses including:
 - i. Man and His Environment (General Physiology) ii. Principles of Disease-II (General Pathology) iii. Blood and Lymph (Haematology) iv. Cardiovascular System
 - v. Respiratory System
 - vi. Musculoskeletal System vii. Nutrition and Metabolism viii. Gastrointestinal System ix. Urinary System
 - x. Endocrine System xi. Reproductive System xii. Nervous System and Special Senses
3. Teaching the introductory aspects of medical education to undergraduate and postgraduate students.
4. In-depth expertise in peer-assisted learning.
5. Supervising students from different nationalities, cultures, and scientific backgrounds during my doctoral and post-doctoral periods.
6. Profound experience in online tutoring of participants in courses concerning teaching and learning in theory and practice.
7. Leader of the course 'Teaching and learning in Higher Education, distance (GHPD)' at Karolinska Institutet, Stockholm, Sweden.

8. Teaching a series of Medical Education and Capacity Building Workshops, which aim to enhance the professional competence of university teachers, researchers, health professionals, administrative and management staff, and other organizational team members in an intercultural context:

- Medical Education Workshops:
 1. How to Learn Effectively
 2. Introduction to Teaching and Learning
 3. Course Design: Outcomes-Based Teaching and Learning (OBTL) and Constructive Alignment in University Education
 4. Effective Lecturing in Large Groups
 5. Teaching and Learning in Small Groups
 6. Teaching and Learning in the Multicultural and Multilingual Classroom

- Capacity-Building Workshops:
 1. Building Productive Teams: Paving the Way for Effective Membership and Leadership
 2. Foundations of Interpersonal Communication
 3. Competent Intercultural Communication
 4. Listening and Responding Skills
 5. Verbal Communication Skills
 6. Nonverbal Communication Skills
 7. Conflict Management Skills and Negotiation Tactics
 8. Fundamentals of Public Speaking

7. **NATIONAL AND INTERNATIONAL CONFERENCES:**

No.	Name of Conference	Date	Place
1	International Network: TUFH (Towards Unit for Health)	October 11-15, 2003	Newcastle, Australia
2	Vascular Biology in Diabetes Complications	October 30-November 01, 2008	Stockholm, Sweden
3	46 th annual meeting- EASD (The European Association for the Study of Diabetes)	September 20-24, 2010	Stockholm, Sweden
4	17 th Pan Arab Conference on Diabetes (PACDI 7) / Poster Presentation	March 26-29, 2013	Cairo, Egypt
5	48 th SSSD meeting (The Scandinavian Society for the Study of Diabetes) / Oral Presentation	May 17-19, 2013	Espoo, Finland
6	27 Scientific Conference of the Sudan Association of Physicians / Oral Presentation	February 21-23, 2014	Khartoum, Sudan
7	NU2016 (Network and Development), which is the Sweden's largest conference for the development of higher education	June 15-17, 2016	Malmö, Sweden

8	23 ^r Mayo-KI Annual Scientific Research Meeti	September 07-08, 2017	Stockholm, Sweden
9	The 29 ^r Annual EAIE (European Association for International Education) Conference	September 12-15, 2017	Seville, Spain
10	The 6th AMSA-IUA (African Medical Students' Association-International University of Africa) International Health Conference / Oral Presentation	March 08-10, 2018	Khartoum, Sudan
II	Addressing the Burden of Disease in Sudan Throu h Scientific Collaboration	November 20-22, 2018	Khartoum, Sudan
12	The 7th AMSA-IUA (African Medical Students' Association-International University of Africa) International Health Conference / Oral Presentation	March 29-30, 2019	Khartoum, Sudan
13	WFME 2019 (2019 World Federation for Medical Education World Conference	April 07-10, 2019	Seoul, South Korea
14	MEC 2019 (Medical Education Conference) / Oral Presentation	November 30December 01, 2019	Benghazi, Libya

8. **SYMPOSIA, SEMINARS/WLBINARS, WORKSHOPS, AND EVENTS:**

No.	Name	Date	Place
1	Symposium Molecular and Physiological As ects of Diabetes Mellitus	March 05, 2010	Karolinska Institutet (K I) campus Solna, Stockholm, Sweden
2	EMBO Workshop: Disease, Development and Stem Cells in the Pancreas	June 14-16, 2010	KI campus Solna, Stockholm, Sweden
3	Symposium Molecular and Physiological As ects of Diabetes Mellitus	September 25, 2010	KI campus Solna, Stockholm, Sweden
4	A Workshop About Feedback Between Colleagues	May 16, 2016	KI campus Solna, Stockholm, Sweden
5	Internationalization and Culture	August 31, 2016	KI campus Solna, Stockholm, Sweden
6	Teaching the Multicultural Classroom	November 29, 2016	KI campus Solna, Stockholm, Sweden
7	Health Professions Education Scholarship Units	December 2 1, 2016	KI campus Solna, Stockholm, Sweden

8	Educational Development in Iranian Medical Universities: lessons learned and the future horizon	January 23, 2017	KI campus Solna, Stockholm, Sweden
9	Universities and Transformative Leadership	February 08, 2017	Webinar via Zoom, which is a video conferencing and web conferencing service
10	How to promote a functioning diversity — in everyday life and at work	February 17, 2017	KI campus Solna, Stockholm, Sweden
11	Seminar Series on Leadership and Project Management Inside and Outside Academia	The series comprises nine seminars from February to May, 2017	KI campus Solna, Stockholm, Sweden
12	Exploring the Nature of Collaborative Leadership in Higher Education and Practice	March 15, 2017	Webinar via Adobe Connect, which is a web conferencing platform
13	Migration, Intercultural Competence and Global Health Education	March 21, 2017	KI campus Solna, Stockholm, Sweden
14	The International Classroom	March 22, 2017	St. Eriks Ögonsjukhus, Stockholm, Sweden
15	Curriculum Innovations - Overview, visualization, advanced analysis, evaluation and comparison	March 31, 2017	KI campus Solna, Stockholm, Sweden
16	Evidence-Informed Enhancement of Learning and Teaching	June 13, 2017	KI campus Solna, Stockholm, Sweden
17	Social Accountability, Professionalism, Quality, Medical Ethics, and Programme Evaluation: A Model for Implementation by Sudan Medical Schools	May 05, 2018	Al Razi University, Khartoum, Sudan
18	TEDx Talk entitled 'Forces That Maintain Cultural Differences' / Keynote Speech	November 03, 2018	TEDxIUA, International University of Africa, Khartoum, Sudan

19	China-Africa Universities, 20+20 Cooperation Project (Seminar for Modern Medical Technolo	December 1520, 2018	Yangzhou University, China
20	New Trends in Students' Assessment	July 28-29, 2019	Educational Development Centre (EDC) for Health Professions, Faculty of Medicine, University of Khartoum, Khartoum, Sudan
21	Educational Technology Workshop	July 31- August 01, 04, 05, 2019	EDC, Faculty of Medicine, University of Khartoum, Khartoum, Sudan
22	Team-Based Learning	November 30, 2019	Libyan International Medical University (LIMU), Ben hazi, Lib a

9. **UNDERGRADUATE RESEARCHES UNDERTAKEN:**

Risk factors of nasopharyngeal carcinoma (NPC) in the Radiation and Isotope Centre, Khartoum (RICK) and NPC clinic in the ENT hospital (November 2003 to January 2004).

10. **POSTGRADUATE COURSES WITHIN THE PH.D. PROGRAMME:**

No.	Course Code	Title	Date	Place
1	2173	Principles of transcriptional network's in metabolic diseases and cancer	October 06November 10, 2008 (just on Mondays)	Karolinska Institutet (KI) campus Huddinge, Stockholm, Sweden
2	1386	Philosophy of science and research ethics	February 09-13, 2009	KI campus Solna, Stockholm, Sweden
3	1 132	Laboratory Animal Science (LAS)	March 23-April 03, 2009	KI campus Solna, Stockholm, Sweden
4	2026	Problem-based overview of medical statistics	May 1 1-15, 2009	KI campus Solna, Stockholm, Sweden
5	2219	Bioinformatics for cell biologists	May 25-29, 2009	KI campus Solna, Stockholm, Sweden

6	1383	Basic course in medical statistics	August 31 September 11, 2009	KI campus Solna, Stockholm, Sweden
7	1 844	Methodologies in Molecular Medicine (MMM)	November 04 December 03, 2009 (just on Wednesdays & Thursdays)	Karolinska university hospital, Solna, Stockholm, Sweden
8	2381	Survey of molecular endocrinology	February 08-19, 2010	Center for Molecular Medicine (CMM), Karolinska University Hospital, Solna, Stockholm, Sweden
9	1559	Experimental techniques in the study of metabolic and endocrine disorders	March 08-12 2010	KI campus Solna, Stockholm, Sweden
10	2161	Genetics of complex diseases	April 12-23, 2010	Novum, KI campus Huddinge, Stockholm, Sweden
11	2347	Medical and developmental genetics	May 17-21, 2010	KI campus Solna, Stockholm, Sweden
12	2179	Course in endocrinology and metabolism	November 08-12, 2010	KI campus Solna, Stockholm, Sweden
13	1391	Writing science and information literac	March 07-18, 2011	KI campus Solna, Stockholm, Sweden
14	2490	Manuscript writing	July 04-08, 2011	Södersjukhuset, Stockholm, Sweden
15	2647	Surgical techniques in rat and mouse	June 10-14, 2013	KI campus Solna, Stockholm, Sweden

11. **POSTGRADUATE COURSES WITHIN THE MASTER PROGRAMME:**

1. Scholarship of Medical Education.
2. Learning Processes.
3. Integration of Theory and Practice.
4. Design and Assessment of Learning.
5. Interprofessional Learning.

6. Leading Change and Learning.
7. Degree Project in Medical Education.

12. **DOCrORAL SUPERVISOR TRAINING:**

Attended the following courses and seminars or supervisors:

No.	Name	Date	Place
	Web course for supervisors for doctoral students at Karolinska Institutet (K I)	January 28, 2015	PING PONG, which is a complete Learning Management System (LMS) for e-learning and knowledge management
2	Preventing and dealing with conflicts in Doctoral Education	April 23, 2015	KI campus Solna, Stockholm, Sweden
3	Introductory Doctoral Supervision Course	September 14-18, 2015	KI campus Huddinge, Stockholm, Sweden
4	Professional responsibility of PhD supervisors - what it means and how to do it	April 26, 2016	KI campus Huddinge, Stockholm, Sweden
5	Pedagogy for doctoral supervisors	September 07, 2016 January 11, 2017 (comprising five half-day seminars)	KI campus Solna, Stockholm, Sweden
6	Quality Assurance QA in clinical research	October 05, 2016	KI campus Huddinge, Stockholm, Sweden
7	Innovation and Entrepreneurship	November 23, 2016	KI campus Solna, Stockholm, Sweden
8	Research documentation and ELN at KI	May 03, 2017	KI campus Flemingsberg, Stockholm, Sweden

13. **COURSES AND TRAININGS IN TEACHING, LEARNING, ETHICS. AND LEADERSHIP IN THEORY AND PRACTICE:**

No.	Name	Date	Place
1	Open Networked Learning (ONL 152)	September 22 November 24, 2015	Google+ communities

2	KI Educational Congress 2016: Student Centred Learning in the Networked Learning Landscape	March 17, 2016	Karolinska Institutet (KI) campus Solna, Stockholm, Sweden
3	Work environment issues related to manager responsibilities, Module 1 : Systematic work environment management	February 15, 2017	KI campus Solna, Stockholm, Sweden
4	Work environment issues related to manager responsibilities, Module 2: Organizational and social work environment	May 16, 2017	KI campus Flemingsberg, Stockholm, Sweden
5	Risk assessment in the Systematic Work Environment Management related to manager responsibilities	May 30, 2017	KI campus Flemingsberg, Stockholm, Sweden
6	Training in Research Ethics for Research Ethics Committee Members	March 10-13, 2019	Faculty of Medicine, University of Khartoum, Khartoum, Sudan
7	Online Training in Research Ethics for Research Ethics Committee Members	March 15-April 05, 2019	http://member.snrec.sd/login/index.php

14. MEMBERSHIP IN COMMWFEEES:

- Member of the 'Student-Centred Learning' Committee during the SelfStudy of the Faculty of Medicine, University of Khartoum, Khartoum, Sudan, as part of the Accreditation Process as agreed upon by the Sudan Medical Council (SMC) and the World Federation for Medical

Education (WFME)

- Member of the 'Academic Staff / Faculty' Committee during the Self-Study of the Faculty of Medicine, University of Khartoum, Khartoum, Sudan, as part of the Accreditation Process as agreed upon by the SMC and WFME
- Member of the 'Quality Assurance and Accreditation Unit' Committee, Faculty of Medicine, University of Khartoum, Khartoum, Sudan
- Member of the 'Alumni Association' Committee, Faculty of Medicine, University of Khartoum, Khartoum, Sudan
- Member of the Organizing Committee for the workshop entitled 'Social Accountability, Professionalism, Quality, Medical Ethics, and Programme Evaluation: A Model for Implementation by Sudan Medical Schools', held at Al Razi University, Khartoum, Sudan, on May 05, 2018
- Member of the Organizing Committee for the conference entitled 'Addressing the Burden of Disease in Sudan Through Scientific Collaboration', held at Al-Salam Rotana Hotel, Khartoum, Sudan, November 20-22, 2018
- Rapporteur of the 'Educational Resources' Committee during the Self-Study of the Faculty of Medicine and Surgery, National University, Khartoum, Sudan, as part of the Accreditation Process as agreed upon by the SMC and WFME
- Member of the 'Curriculum' Committee in the Faculty of Medicine and Surgery, National University, Khartoum, Sudan
- Member of the Scientific Committee, which developed the curriculum of the Unity College for Medical Sciences and Technology, Darfur, Sudan
- Member of the Scientific Committee, which developed the curriculum of the Faculty of Medicine and Health Sciences — Mashreq University, Khartoum, Sudan
- Rapporteur of the 'Review' Committee during the Self-Study of the Faculty of Medicine and Surgery, National University, Khartoum, Sudan, as part of the Accreditation Process as agreed upon by the SMC and WFME

15. **PUBLICATIONS:**

1. HASAN, N. M., LONGACRE, M. J., SEED AHMED M. KENDRICK, M. A., GU, H., OSTENSON, C. G., FUKAO, T. & MACDONALD, M. J. 2010. Lower succinyl-CoA:3-ketoacid-CoA transferase (SCOT) and ATP citrate lyase in pancreatic islets of a rat model of type 2 diabetes: knockdown of SCOT inhibits insulin release in rat insulinoma cells. Arch Biochem Biophys, 499, 62-8.

2. SEED AHMED M. KOVOOR, A., NORDMAN, S., ABU SEMAN, N., GU, T., EFENDIC, S., BRISMAR, K., OSTENSON, C. G. & GU, H. F. 2012. Increased expression of adenylyl cyclase 3 in pancreatic islets and central nervous system of diabetic Goto-Kakizaki rats: a possible regulatory role in glucose homeostasis. *Islets*, 4, 343-8.
3. LANGBERG, E. C.*, SEED AHMED EFENDIC, S., GU, H. F. & OSTENSON, C. G. 2013. Genetic association of adrenergic receptor alpha 2A with obesity and type 2 diabetes. *Obesity (Silver Spring)*, 21, 1720-5.
4. SEED AHMED MOHAMMED HAMZA Z. E. 2013. Functional and genetic studies in type 2 diabetes and obesity. Doctoral thesis, Karolinska Institutet, Stockholm, Sweden. ISBN 978-91-7549-283-4.
5. SEED AHMED PELLETIER, J *, LEUMANN, H., GU, H. F. & OSTENSON, C. G. 2015. Expression of Protein Kinase C Isoforms in Pancreatic Islets and Liver of Male Goto-Kakizaki Rats, a Model of Type 2 Diabetes. *PLoS one*, 10, e0135781.
6. TAJEDDINN, W., PERSSON, T., CALVO-GARRIDO, J., SEED AHMED M. MAIOLI, S., VIJAYARAGHAVAN, S., KAZOKOGLU, M. S., PARRADO-FERNANDEZ, C., YOSHITAKE, T., KEHR, J., FRANCIS, P., WINBLAD, B., HOGLUND, K., CEDAZO-MINGUEZ, A. & AARSLAND, D. 2016. Pharmacological Modulations of the Serotonergic System in a Cell-Model of Familial Alzheimer's Disease. *J Alzheimers Dis*, 53, 349-61.
7. TAJEDDINN, W., FERESHTEHNEJAD, S. VT., SEED AHMED M. YOSHITAKE, T., KEHR, J., SHAHNAZ, T., MILOVANOVIC, M., BEHBAHANI, H., HOGLUND, K., WINBLAD, B., CEDAZO-MINGUEZ, A., JELIC, V., JAREMO, P. & AARSLAND, D. 2016. Association of Platelet Serotonin Levels in Alzheimer's Disease with Clinical and Cerebrospinal Fluid Markers. *J Alzheimers Dis*, 53, 621-30.
8. WUJ, L., SHEN, C., SEED AHMED M. OSTENSON, C. G. & GU, H. F. 2016. Adenylate cyclase 3: a new target for anti-obesity drug development. *Obes Rev*, 17, 907-14.
9. CHARANI, E., CUNNINGTON, A.J., YOUSIF, A.H.A., SEED AHMED M. AHMED, A.E.M., BABIKER, S., BADRI, S., BUYTAERT, W., CRAWFORD, M.A., ELBASHIR, M.I., ELHAG, K., ELSIDDIG, K.E., HAKIM, N., JOHNSON, M.R., MIRAS, A.D., SWAR, M.o., TEMPLETON, M.R., TAYLOR-ROBINSON, S.D. 2019. In transition: current health challenges and priorities in Sudan. *BMJ Global Health*, 4:e001723.
 I O. HAYTURAL, H., LUNDGREN, J. L., KÖSE, T. B., JORDÅ-SIQUIER, T., KALCHEVA, M., SEED AHMED, M., WINBLAD, B., SUNDSTRÖM, E., BARTHET, G., TJERNBERCJ, L. O. & FRYKMAN, S. 2019. Non-specific Detection of a Major Western Blotting Band in Human Brain Homogenates by a Multitude of Amyloid Precursor Protein Antibodies. *Frontiers in Aging Neuroscience*, 11.

* Authors contributed equally to the work

16. **REFERENCES:**

1. Professor Dag Aarsland
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7. COUNTRIES VISITED:

Australia, Malaysia, Syria, Turkey, United Arab Emirates, Jordan, Saudi Arabia, Egypt, Finland, United Kingdom, United States of America, Spain, China, South Korea, and Libya.