



NUHA AMIN MAHMOUD

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Nationality: Sudanese / Canadian

Profile

Over the last two decades, Nuha Amin has given lectures at major academic institutions and has extensive medical experience in biochemistry and bioinformatics. Excellent problem-solving, analytical, and laboratory skills. Strong organizational skills are required, particularly the ability to prioritize and set goals. The ability to manage time effectively, work under duress, and fulfill deadlines. Project completion is rigorous and exact, and the work ethic is strong. ability to operate effectively in groups as well as on one's alone. A diligent individual with strong documentation abilities.

WORK EXPERIENCE

National University- Faculty of Medicine

2019 — Present

Head of Biochemistry and Molecular genetics Department

- Collaborating with deans of medical faculties (Medicine, Pharmacy, Dentistry, Nursing, Medical Laboratory Science, Physiotherapy, and Radiology faculties) and heads of medicine departments to achieve the university's strategic goals. Leads and manages the departmental regular meetings, activities, and works with the Departmental Advisory Committee to establish departmental policy.
- Foster academic leadership in the department, the university, and the community at large. Performing departmental administrative activities such as student admissions, induction programs, and participation in committees and boards.
- Attending professional workshops and seminars on behalf of the biochemistry and molecular genetics department and contributing as needed.
- Responsible for developing Departmental budgets and, in cooperation with appropriate committees, for all Departmental personnel, facility allocation, and expenditure of Departmental funds.
- Participate on several University committees as a representative of the biochemistry and molecular genetics department.
- Promotes inter-professional and biochemistry and genetics-based education and research in collaboration with other disciplines and departments.

National University- Faculty of Medicine

2014 — Present

Lecturer

- Deliver lectures, seminars and tutorials of biochemistry, molecular genetics and bioinformatics courses.
- Design, prepare and develop courses, modules and teaching materials

- Develop and implement new methods of teaching to reflect changes in research Assess students' coursework
- Set, mark and moderate examinations and assessments Support students through a pastoral or advisory role Write up research and prepare it for publication
- Carry out administrative tasks related to the department, such as student admissions, induction program and involvement in committees and boards
- Contribute to professional conferences and seminars Participate in staff training activities
- Course coordination for basic biochemistry, genetics and molecular biology, nutrition and metabolism
- Academic supervision for the medical students at regular basis
- Active participations in workshops and lectures held by the faculty and university
- Active participations in workshops, seminars and forums -University CPD unit

Course Coordinator Duties:

- The coordinator is responsible for overall course content and designated learning outcomes, and for ensuring that there are specific learning outcomes and instructional objectives for each topic covered in the course.
- The Course Coordinator, in consultation with the appropriate Department Heads, is responsible for putting together the appropriate teaching team to deliver the course. Preparing the Course Syllabus, the syllabus should provide all the pertinent information for the course, set the tone for student and instructor performance, and serve as a contract between students and the course coordinator
- Coordinate tasks associated with the common final exam. These tasks include scheduling rooms, creating the final, handling applications for and arranging permission for taking the conflict final, and scheduling the conflict final
- The Course Coordinator is ultimately responsible for the preparation, delivery, grading, and quality of examinations or other assessment methods.
- The Course Coordinator is responsible for ensuring that all scheduled examinations are given at the designated times and administered properly, Course Coordinators should clearly explain to students the expectations for each examination, including format, time limits, equipment or calculators needed, etc.
- Following completion of the course, and using available course evaluations, the Course Coordinator should convene a meeting of all course instructors for the purpose of evaluating and determining the success of the course in meeting course goals/outcomes, the effectiveness of delivery of the course, revisions to course method or content. And the course schedule for the next year

Gazira University - Faculty of Medicine

1997 — 2006

Lecturer

- Provided teaching for medical students of undergraduate biochemistry and molecular genetics courses.
- Coordination of the basic biochemistry, metabolism and nutrition and Genetics and Molecular biology undergraduate courses.
- Assisted and active participated in workshops and seminars held in the department of biochemistry

Gazira University- Faculty of Medicine

1993 — 1997

Teaching Assistant

- Provided demonstration, supervision, and guidance of medical students in laboratory experiments of biochemistry practical courses.
- Assisted medical students in tutorial and biochemical problems.
- Assisted technical staff in lab preparation and organization for the practical sessions. Assisted with grading and evaluation of students in introduction of biochemistry, endocrinology undergraduate courses

National University - Faculty of Medicine

2019 — Present

Administrative work and activities

- WFME Accreditation Committee
- Rapporteur: 202 Curriculum Committee Rapporteur 2018- present
- Head of mission and outcomes subcommittee for WFME accreditation committee- 2019 Member of mission and outcomes subcommittee for WFME accreditation committee 2018-2019
- Active participation in the university BAC preparations and foundation. Head of the subcommittee for preparing the curricula for the introduction to bioinformatics course for Faculty of medicine, National University
- Laboratory materials, equipment and devices counting and listing for practical sessions preparation of biochemistry and molecular genetics department.

EDUCATION

Master of Bioinformatics

2019 — 2021

National University- Faculty of Medicine

Title: novel multi-epitope vaccine candidates against Jaagsiekte sheep retrovirus from the Envelope and Gag proteins: In- silico desig University of Gezira, Faculty of Medicine

Master of Biochemistry

1995 — 1997

Gazira university- Faculty of Medicine

Title: Biochemical assessment of the control of insulin dependent diabetes mellitus in Sudanese patients as compared to age and sex –matched non-diabetic Sudanese subjects

Bachelors of Veterinary Medicine

1988 — 1993

University of Khartoum - Faculty of Veterinary Medicine

INTERESTS

Research Interest:

Insilico bioinformatics researches, Molecular biology of Cancer and obesity.

TRAINING AND WORKSHOPS

- **Course Design, National University/ Sudan October 2019**
- **Microbial Genomics into Practice: Methods and Techniques: National University Biomedical Research Institute/ Sudan - 2019**
- **Introduction to Bioinformatics (IBT), Pan African Bioinformatics Network for H3FRICA, January 2019**
- **Biomedical Research Writing and Statistical Analysis Tools, Africa City of Technology, Sudan, 28/1/2019 to 2/2/2019**
- **Essentials of Interpersonal and Intercultural Communication, University of Khartoum, Khartoum, Sudan, 27/8/2019 to 29/8/2019**
- **Next-Generation Sequencing Data Analysis Using Galaxy, National University, Khartoum, Sudan, 14/10/2019 to 19/10/2019**
- **Bioinformatics and Advanced Genomics Workshop, Africa City of Technology, Sudan, 16/12/2018 to 31/12/2018**
- **Scientific Writing, National University, in cooperation with Deutscher Akademischer Austauschdienst German Academic Exchange Service, 10/11/2018**
- **Bioinformatics and Advance Genomics; Maraj Medical Training Center 2018**

- **Operational Management of Clinical Research and its Ethical Implications** organized by National Center for Research and The Mycetoma Center in collaboration with Hochschule Hannover University of Applied science and Art, Germany, 22/11/2017 to 23/11/2017
- **Basic Certificate in Teaching**, National University, Khartoum, Sudan, 11/12/2016 to 13/12/2016
- **Advanced bioinformatics and Research Course**. National university, Khartoum, Sudan 2016 (Sequence Analysis (BLAST, FASTA, CLUSTAL W), Polygenetic analysis, PCR Primers designs by primer3, Proteomics: ExPASy and Protein Structure prediction (Cn3D and Chimera1,8,1).
- **Basic skill of learning**, National University, Khartoum, Sudan, 2017
- **Advanced Bioinformatics**, National University, Khartoum, Sudan, 6/2/2016 to 25/2/2016
- **Essential for the Assessment**, National University, Khartoum, Sudan 2016
- **Core Teaching skills**, National University, Khartoum, Sudan 2015
- **Teaching and learning Forum**, National University, Khartoum, Sudan 2015
- **Introduction to Information Technology, Wellington Con Ed Centre-Days, Guelph, ON, Canada. 2004**
- **MS-word 2000, Excel 2000 Windows 98, Excel 97, Internet, MS-Word 97, Computer Typing, PowerPoint 97, Nipras computer institute, Abu Dhabi, UAE. 1997**
- **Training program Teaching program in separation and extraction of the active ingredients in medicinal plants field, National Research Institute, Khartoum Sudan, and ARC Medani**

LANGUAGES

Arabic (native language) and English (Fluent)/ basic Germany

PUBLICATIONS

1. Bioinformatics Analysis of Single Nucleotide Polymorphism in Multiple Drug Resistance Protein 1 (ABCB1) and Multi-Drug Resistance-Associated Protein 1 (ABCC1) in *Bos taurus*

Nuha A. Mahmoud¹, Elham I. Mohammed², Siham O. Elshafei¹, Ahmed H. Elsadig³, Rihab A. Omer⁴, Sofia B. Mohamed⁴

Preprint Papers:

2. **The Association between SLC25A15 Gene Polymorphisms and Hyperornithinemia-hyperammonemia-homocitrullinuria Syndrome: Using in Silico Analysis**, bioRxiv preprint doi: <https://doi.org/10.1101/786301>. this version posted September 30, 2019.

Nuha A. Mahmoud¹, Dina T. Ahmed, Zainab O. Mohammed, Fatima A. Altyeb, Mujahed I. Mustafa, Mohamed A. Hassan

3. **In silico analysis of IDH3A gene revealed Novel mutations associated with Retinitis Pigmentosa**, bioRxiv preprint doi: <https://doi.org/10.1101/554196>. this version posted February 18, 2019.

Thwayba A. Mahmoud¹, Abdelrahman H. Abdelmoneim, Naseem S. Murshed, Zainab O. Mohammed, Dina T. Ahmed, Fatima A. Altyeb, Nuha A. Mahmoud, Mayada A. Mohammed, Fatima A. Arayah, Wafaa I. Mohammed, Omnia S. Abayazed, Amna S. Akasha, Mujahed I. Mustafa, Mohamed A. Hassan

Under process:

1. **A novel multi-epitope vaccine candidates against Jaagsiekte sheep retrovirus from the envelope and gag proteins: An in-silico approach**

Nuha Amin Mahmoud; Yassir A. Almofti²; Abdelmajeed M. Elshafei

2. **Development of multi-epitopes vaccine against Human Papilloma Virus-16 using the L1 and L2 as immunogens**

Abdelmajeed M. Elshafei; Yassir A. Almofti; Nuha Amin Mahmoud

3. Structural analysis of Avian Leukosis Virus proteome to predict multi epitopes vaccine: an Insilico approach

Siham O Elshafei, Nuha Amin mahmoud, Yassir A. Almofti

REFERENCES

1. Prof. Bader Aldeen alsonni, Biochemistry Dept, Faculty of Medicine, University of Gezira, Sudan
2. Prof. Abbas O Alkarib, Faculty of Medicine, National University, Sudan.
3. Prof. Ahmed Altahir, Biochemistry Dept Faculty of medicine, Nile University, Sudan