

CURRICULUM VITAE

PERSONAL PROFILE:

1. Name : Wafa Ali Eltayb Elsiddig
2. Date of birth : 15/10/1983
3. Place of birth : Arbgi , Gezira State
4. Marital status : Married
5. Nationality : Sudanese
6. Address : Arbgi, Gezira State
7. Phone number : 00249119296236
8. Email address : wafa.ali.11338@gmail.com

ACADEMIC PROFILE:

- Doctor of Natural Science in Biochemistry and Molecular biology 2013/2017. Hefei National Laboratory for Physical Science at the Microscale and School of Life Science, University of Science and Technology of China, People's Republic of China. Project seminar: Biochemical and Enzymatic Analysis of Two Glycosyltransferases GlyB and GlyG from *Streptococcus pneumoniae* TIGR4
- Master of Science in biochemistry and molecular biology 2011/2013. Institute of Genetics and Cytology, School of Life Science, Northeast Normal University, People's Republic of China. Project seminar : Identification and Characterization of Anti-Breast Cancer Natural Compound, Eriocalyxin B, from Traditional Chinese Herbs
- Master of Science in Bioscience & Biotechnology 2009/2011. Center of Bioscience & Biotechnology, Faculty of Engineering & Technology, University of Gezira .Project seminar: In vitro Study of the Chemical Components Isolated from the Essential Oil of *Cymbopogon proximus* as Inhibitors of Growth and Aflatoxin production by *Aspergillus flavus*.
- Postgraduate Diploma of Science in Bioscience & Biotechnology 2008/2009. Center of Bioscience & Biotechnology, Faculty of Engineering & Technology, University of Gezira. Project seminar: Gene cloning.
- Bachelor of Science in Chemistry & Botany from 2002 to 2007. Shendi University, Nher Anile, Sudan.

Conferences

The 9th International Conference, The Role of Biotechnology in food security and sustainable development in the Arab Region, Organized member and participant by presentation and poster. Khartoum, Sudan

The 6th Annual Conference of Chinese Crystallographic Society, Dec.19-22, 2016 Guangzhou, P.R.China. Participant by poster

The 5th International Conference and 2nd ASCB Local Meeting on Cellular Dynamics and Chemical Biology, Nov. 3-6, 2016 Hefei, Anhui, P.R.China.

Publications

129 Citations in 2018/10/15

- Lnc RNAs- protein crosstalk; epigenetic players in aging process. Amr. R. Ghanam, **Wafa Ali Eltayb**, Mohnad Abdalla. Genetics and Molecular Research. Accepted.
- Mohnad Abdalla; **Wafa Ali Eltayb**^{†*}; Aadil Yousif. Comparison of structures among *Saccharomyces cerevisiae* Grxs proteins. BMC Genes and Environment. (2018) 40:17. <https://doi.org/10.1186/s41021-018-0104-5>. <https://doi.org/10.1186/s41021-018-0104-5>.
- Mohnad Abdalla; **Wafa Ali Eltayb**^{†*}; Amr Ahmed El-Arabey; Raihan Mo; T. I. M. Dafaalla; Hamed I. Hamouda; Eijaz Ahmed Bhat; Annoor Awadasseid; Hassan Abdellha Ahmed Ali. Structure analysis of yeast glutaredoxin Grx6 protein produced in *Escherichia coli*. BMC Genes and Environment. (2018) 40:15. <https://doi.org/10.1186/s41021-018-0103-6>.
- Tayb Elasma Ibrahim Mustafa Dafaalla, Mohnad Abdalla, Nada Algaili, Elawad Elhaj, Eltayeb Eldigair, **Wafa Ali Eltayb**, Gui-Hua Li, Qing-Ming Qin: Identification of new pathogenicity related to the gene encoding hypothetical protein in the gray mold fungus (*Botrytis cinerea*). Australian Journal of Crop Science 10/2017; 11(10):1236-12431835., DOI:10.21475/ajcs.17.11.10.pne417.
- **Wafa Ali Eltayb**, Mohnad Abdalla, Abdus Samad, Amr A EL-Arabey, Ghanam AR and Waleed A Almahi. Number of Cysteine Interactions with the Activity in GRX Family. Journal of Proteomics & Bioinformatics, Volume 10, Issue 4, April 2017. DOI: 10.4172/jpb.1000431.
- Mohnad Abdalla, Ya-Nan Dai, Chang-Biao Chi, Wang Cheng, Dong-Dong Cao, Kang Zhou, **Wafa Ali**, Yuxing Chen and Cong-Zhao Zhou, Crystal structure of yeast monothiol glutaredoxin Grx6 in complex with a glutathione-coordinated [2Fe–2S] cluster. Acta Crystallographica Section F, 2016. <http://dx.doi.org/10.1107/S2053230X16013418>.
- Mohnad Abdalla, **Wafa Ali Eltayb**, Abdus Samad, Elshareef S.H.M. T. I. M. Dafaalla. Important Factors Influencing Protein Crystallization. Global Journal of Biotechnology and Biomaterial Science, 2016.
- Mohnad Abdalla, **Wafa Ali Eltayb**. Effect of serum starvation and cell density in the expression of VEGF, bFGF and Angiogenin, and also the effect of VEGF up regulate in the expression of bFGF and Angiogenin. International Journal of Scientific and Research Publications, Volume 5, Issue 4, April 2015.
- Mohnad Abdalla, **Wafa Ali Eltayb**, Mohammed Abdelwahed .New method of DNA extracted from thick film blood sample slides. International Journal of Innovative and Applied Research, Volume 3, Issue 5, 2015
- Azhar Rasul, Faya Martin Millimouno, **Wafa Ali Eltayb**, Muhammad Ali, Jiang Li, Xiaomeng Li "Pinocembrin: a novel natural compound with versatile pharmacological and biological activities" (2013) Biomed Research International. 10.1155/2013/379850

* Correspondence

† Contributed equally to this work

https://www.researchgate.net/profile/Wafa_Ali_Eltayb

Papers under reviewing

- Novel Hypothesis for Membrane Transporters as Predictors for Cisplatin Effects and Side Effects . Ahmed El-Arabey Amr, Mohnad Abdalla, **Wafa Ali Eltayb**

Protein Data Bank Accession Numbers

PDB ID, 5J3R: Crystal structure of Grx6 in complex with a glutathione-coordinated [2Fe-2S] cluster

SCHOLARSHIPS

Award CAS-TWAS Fellowship 2013-2017

Award Chinese scholarship (CSC) 2011-2013

SKILLS:

1. Languages: Arabic / English / Chinese.
2. Capable of conducting research independently.
3. Good writing and communication skills.
4. A team player.

BIOLOGICAL SOFTWARES:

CCP4, WINCOOT, PYMOL, MEGA6, DOCKING, UCSF CHIMERA, FLOWJO, TCGA, SHELX, Quantity One, etc.

TECHNIQUES

Protein Crystallography using (hanging drop, sitting drop, mosquito), crystal dehydration & Soaking, X-ray crystallography, bioinformatics, DNA purification, RNA purification, protein purification (Nickel chromatography and Gel Filtration Chromatography), Protein-Protein Interaction, DNA- Protein Interaction, Gene Cloning and recombinant plasmid construction, enzyme activity, transformation, transfection, Flow Cytometer, Elisa assay, (SDS-PAGE), Western Blot Analysis (Detection and visualization in dark room or by using Radioactive detection), High Performance Liquid Chromatography (HPLC), Cross linking, Site directed mutagenesis, qPCR, 2-D gel electrophoresis, molecular and cell biology, biochemistry and human cell culture techniques, Metastasis, Cell Cycle Analysis, MTT assay, apoptosis assay.

EMPLOYMENT

◆ Assistant Professor; teaching Biochemistry, Molecular biology, & structure biology Shendi University, 01/05/2018 - up to now

◆ Assistant Professor; teaching Biochemistry, Molecular biology & Applied microbiology. University of Albutana, 01/07/2017 to 20/04/2018

◆ lecturer, teaching general chemistry, Applied chemistry, Faculty of Engineering & Technology, University of Gezira, May 2007 – Feb 2011.

Responsibilities

- Member of internal auditing committee for Quality & Development Unit.
- Member of Research and Development committee.
- Lecturing and supervising students.
- Assist in the development of learning materials, preparing schemes of work and maintaining records to monitor student progress, achievement and attendance.
- Participate in departmental and faculty seminars aimed at sharing research outcomes and building interdisciplinary collaboration within and outside the department.
- Conducting conferences, seminars and workshops

Training

◆ Certificate of Bioinformatics in sequences analysis using public database tools, Center of Bioscience & Biotechnology, Faculty of Engineering & Technology, University of Gezira, 22nd -25th March 2010.

◆ Certificate of Computational Chemistry in Molecular Docking and its Application in Bioactive Molecule Design, Faculty of Engineering & Technology, University of Gezira, Wad Medani, Sudan, and Medicinal & Aromatic Plants Research Institute, National Center for Research, Khartoum, Sudan.

◆ Training course on Water and Microbiology, water sampling and detection of pollutants, Environment and Natural Resources Research Institute, National Centre for Research, 27th May – 10th June 2006.

◆ Training course on Root Nodule Bacteria and its uses, Bio fertilization Department, Environment and Natural Resources Research Institute, National Centre for Research, 13th May – 20th May 2006.