

CURRICULUM VITAE

Dr. Ismail Hamad Osman

Clinical Lab Sciences Department, College of Applied Medical Sciences- Jouf University

Personal Information:

Name: Ismail Hamad Osman
Nationality: Sudanese
Date of Birth: 1970
Current Address: Department of Clinical lab. Sciences, College of Applied Medical Sciences, Aljouf University, Kingdom of Saudi Arabia
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Academic Qualifications:

Nov. 2011- up to date Assistant Professor of Biochemistry, College of Applied Medical Sciences, Jouf University, Kingdom of Saudi Arabia.

July 2007- 2011 Assistant Professor of Biochemistry, Faculty of Medicine & Health Sciences, Upper Nile University, Sudan. (currently Bahri University)

July 2007: PhD, Biochemistry& Molecular biology, Department of Molecular biology and genetics, Istanbul University, Turkey
Thesis title:” protective effects of natural antioxidants against oxidative stress-induced protein damages in the yeast *Schizosaccharomyces pombe*”

October 1997-2007 Lecturer of biochemistry, Faculty of Medicine & Health Sciences, Upper Nile University, Sudan.

October 1997: Master, Biochemistry, Faculty of life sciences, Aligarh Muslim University, India (First Division)

April 1994-1997: Teaching Assistant and Instructor, Faculty of Medicine & Health Sciences, Upper Nile University, Sudan.

1989-1993: B.Sc., Biochemistry, Faculty of sciences, Ain Shams University, Egypt. (Very Good)

Other Advanced Courses Attended:

- 2008 (15th-20th Oct.) Khartoum, Sudan Epistemology and research methodology organized by Ahfad University in collaboration with Oslo University College
- 2008 (5th Feb-16th march) Khartoum, Sudan Educational preparation course organized by Staff development centre, University of Khartoum
- 2006 (24th-29th June) Istanbul, Turkey 31st FEBS Congress (Molecules in Health & Disease), organized by Federation of European Biochemical Societies
- 2000 (15th-30th July) Khartoum, Sudan Theoretical workshop (Cytogenetics and Molecular Cytogenetics of Cancer) organized by tropical Medicine Research Institute & institute of endemic diseases in collaboration with Department of clinical genetics, university of Lund, Sweden

Academic activity:

Subject editor (Biochemistry & Molecular Biology), Bioscience research journal published by Isisn.org
Reviewer for the Pharmaceutical biology journal published by informa healthcare.

Fellowships/Grants:

- 1995-1997 ICCR Scholarship sponsored by Govt. of India
2002-2007 PhD studentship sponsored by Govt. of Turkey

Community Service:

- 1998-1999 Teaching chemistry for secondary school affiliated with
Munazzamat al Da wa al Islamiia

Administrative Experiences:

- Supervisor for Academic Affairs, College of Applied Medical Sciences, Aljouf University (2012=2017)
- Head of Biochemistry department, College of Medicine & Health Sciences, Upper Nile University (2007-2011).
- Member in Exam Committee, College of Medicine & Health Sciences, Upper Nile University (2007-2011).
- Member in registration Committee, College of Medicine & Health Sciences, Upper Nile University (2007-2011).

Computing Skills:

• **In Research:**

Competent in using the following Software in Research:

- Shimadzu UV-210 and other series of Spectroscopy Software Package.
- General math./stat. Software (Graphpad).

• **In Teaching:**

Using the following Software in teaching:

- Microsoft Office (PowerPoint®, cutePDF Writer®, Excel® and Word®).

Area of Interest:

Implications of oxidative stress in human diseases, oxidative damages to biomolecules (proteins, lipids & nucleic acids), mechanism of action of antioxidants, screening plants for potential antioxidant activity

Research Experience

Protein biochemistry:

Spectrophotometric quantification of protein, protein purification, chromatography, electrophoresis: standard SDS-PAGE; native PAGE.

Immuno-methods:

Western transfer and immunoblotting; ELISA.

Cell biology:

Cytotoxic screens: Growth inhibition (IC50), evaluation of oxidative damages to biomolecules (proteins and lipids)

Molecular biology:

PCR amplification, plasmid construction, transformation, restriction, Southern blotting, and differential display analysis.

References:

1. Dr. Abdelaziz Alsheibn, Dean College of applied medical Sciences, Aljouf University. Saudi Arabia. Tel 00966505428216. Email: aalsheibn@KSU.EDU.SA. aalsheibn@ju.edu.sa.
2. Prof. Dr. Nazlı Arda, Molecular Biology & genetics Department, Faculty of Sciences, Istanbul University, Vezneciler 34134, Istanbul, Turkey. Tel.+09 212 455 57 00 / 15212. Email: narda@istanbul.edu.tr.
3. Prof. Dr. Nermin Gozukirmizi, Molecular Biology & genetics Department, Faculty of Sciences, Istanbul University, Vezneciler 34134, Istanbul, Turkey. Tel.+09 212 455 57 00 / 15111. Email: nermin@istanbul.edu.tr.
4. Prof. Dr. Faisal Ibrahim, Faculty of Medicine & Health Sciences, Bahri University, Khartoum 1660, Sudan. Email: ibrahimfaisal@hotmail.com.

List of Publication:

Journal articles

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| Mohammad H Abukhalil, Omnia E Hussein, May Bin-Jumah, Sultan A M Saghir, Mousa O Germoush, Hassan A Elgebaly, Nermeen M Mosa, Ismail Hamad, Moath M Qarmush, Emad M Hassanein, Emadeldin M Kamel, Rene Hernandez-Bautista, Ayman M Mahmoud (2020) Farnesol attenuates oxidative stress and liver injury and modulates fatty acid synthase and acetyl-CoA carboxylase in high cholesterol-fed rats. <i>Environ Sci Pollut Res</i> 27 , 30118–30132 (2020). (IF 2.914) |
| Ismail H. Osman, Ahmed A. Tantawy, Hussein M. Ibrahim, and Abd El Ghany A. Moustafa (2017) Antioxidant properties of <i>Mentha pulegium</i> and histopathological evaluation of its ameliorating effect on experimental acute hepatic injury. <i>HCE</i> , Volume 1(1): 1-5. |
| Ismail H. Osman and Ahmed A. Tantawy. 2017. Comparative Evaluation of Antioxidant and Hepatoprotective Effects of Three Olive Leave Species Cultivated in Aljouf Region, Saudi Arabia <i>The Egyptian Journal of Hospital Medicine</i> (October 2017) Vol. 69 (8), Page 3083-3091 |
| Abeer A Alm-Eldeen ¹ , Sabry A El-Naggar, Kamal F El-Boray, Hassan A Elgebaly and Ismail H Osman (2016) Protective Role of <i>Commiphora molmol</i> Extract against Liver and Kidney Toxicity Induced by Carbon Tetrachloride in Mice. <i>Tropical Journal of Pharmaceutical Research</i> January 2016; 15 (1): 65-72 |
| Ismail Hamad, Hamada AbdElgawad, Soad Al Jaouni, Gaurav Zinta, Han Asard, Sherif Hassan, Momtaz Hegab, Nashwa Hagagy, and Samy Selim (2015) Metabolic Analysis of Various Date Palm Fruit (<i>Phoenix dactylifera</i> L.) Cultivars from Saudi Arabia to Assess Their Nutritional Quality. <i>Molecules</i> 2015, 20(8), 13620-13641 |
| Meshref Al-Rwaily, Ismail Hamad and Samy Selim. 2015. Distribution of Obesity among Male in Aljouf Population, Saudi Arabia., Volume 9 No. 1 Page No. 617-622. <i>Journal of pure and applied microbiology</i> |
| Ismail Hamad, (2014). Phenolic profile and antioxidant activity of Saudi date palm (<i>Phoenix dactylifera</i> L.) fruit of various cultivars. <i>Life Science Journal</i> 2014;11(10) |
| Hamad, I. Tantawy, Antioxidant activity and protective effects of commercial propolis on gentamicin induced nephrotoxicity in rabbits. <i>In vitro study</i> . <i>Turkish journal of Biochemistry</i> 2013; 38 (4) 409–415 (IF 0.26). |
| I. H. Osman ¹ , “ <i>In Vitro</i> Antioxidant activity of <i>Mentha pulegium</i> from Saudi Arabia”. <i>Bioscience Research</i> , 10(1), (2013). P33. |
| Hamad, I. Arda, N. Pekmez, M. Karaer, S. Temizkan, G (2010), Intracellular Scavenging activity of Trolox (6-hydroxy-2, 5, 7, 8- tetramethylchromane-2-carboxylic acid) in the fission yeast, <i>Schizosaccharomyces pombe</i> . <i>J Nat Sci Biol Med</i> . 2010 1(1):16-21. |
| Hamad, I. Erol-Dayi, O. Pekmez, M. Önay-Uçar, E. Arda, N. (2010), Antioxidant and Cytotoxic Activities of <i>Aphanes arvensis</i> Extracts. <i>Plant Foods Hum Nutr</i> . 65(1):44-9. (IF 2.505) |

Karaer, S. Tarhan, C. Pekmez, M. Hamad, I. Arda, N. Topal Sarikaya, A. (2010), Expression of human A4V mutant Cu, Zn superoxide dismutase in *Schizosaccharomyces pombe*: Investigations of its toxic properties. *Biochem. genet.* 48: (1-2) 113-124. (IF 0.938)

Pekmez, M. Arda, N. Hamad, I. Kig, C. Temizkan, G. (2008), Hydrogen peroxide-induced oxidative damages in *Schizosaccharomyces pombe*, *Biologia.* 63:151-155. (IF 0.506)

Published Abstracts:

Hamad, I. Erol-Dayi, O. Pekmez, M. Önay-Uçar, E. Arda, N. (2007), Free radical scavenging activity and protective effects of *Alchemilla vulgaris* (L.). *Journal of Biotechnology*, 131 (2) S40-S4. *Journal of Biotechnology* 131 (2S) (2007) S250-253, 2. (13th European Congress on Biotechnology 16-19 July 2007, Barcelona, Spain).

Karaer, S. Tarhan, C. Pekmez, M. **Hamad, I.** Arda, N. Topal Sarikaya, A. (2007), Fission yeast as a model for ALS disease, *Journal of Biotechnology*, 131(2) S250. *Journal of Biotechnology* 131 (2S) (2007) S40-42, 2. (13th European Congress on Biotechnology 16-19 July 2007, Barcelona, Spain).

Conferences attended and posters presented:

Hamad I.,(2016) Evaluation of cholinesterase inhibitory effect, anti-radical and anti-lipid peroxidation activities of *Mentha pulegium*. 41th FEBS CONGRESS. September 3-8, 2016 Turkey

Arda N., **Hamad I.**, Pekmez M., Uzuner S. K., Temizkan G. (2008). Protective effect of vitamin E against protein oxidation in the yeast *Schizosaccharomyces pombe*. *Yeast molecular biology & biotechnology symposium.* 3-31 may, Bursa, Turkey.

I.Hamad, N. Arda, M. Pekmez, S. Karaer, G. Temizkan (2006). Protective effects of Trolox in the yeast *Schizosaccharomyces pombe*. 31st FEBS CONGRESS, 24-29 June 2006, Istanbul, Turkey. The FEBS Journal 273 Supplement 1: 166 (PP-332).

M. Pekmez, N. Arda, **I. Hamad,** C. Kig, G. Temizkan (2006) Oxidative stress parameters in the yeast *Schizosaccharomyces pombe*. 31st FEBS CONGRESS, 24-29 June 2006, Istanbul, Turkey. The FEBS Journal 273 Supplement 1: 165 (PP-330).

Projects

| الوقت المستغرق Duration | رمز الدور Role Code | رمز الحالة Status Code | تاريخ النهاية End Date | تاريخ البداية Start Date | المؤسسة الداعمة Funding Institution | اسم المشروع Project Title |
|----------------------------|------------------------|---------------------------|---------------------------|-----------------------------|--|--|
| ١٢ شهر | PI | UP | ٢٠١٦/٥/١٢ | ٢٠١٥/٥/١٢ | جامعة الجوف | Evaluation of anti-radical, anti-lipid peroxidation, anti-cholinesterase activities and hepatoprotective effect of <i>Mentha pulegium</i> (Al Madina mint) |
| ١٠ اشهر | PI | C | ٢٠١٤/٤ | ٢٠١٣/٤ | جامعة الجوف | In Vitro antioxidant activity and protective effect of Saudi date palm |

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| | | | | | | fruits water extract (Phoenix dactylifera L.) on carbon tetrachloride induced hepatotoxicity in rabbit |
| ١٢ شهر | CI | C | ٢٠١٣/١٢ | ٢٠١٣/١٢ | جامعة الجوف | Study on Prevalence and Risk of Obesity in Al Jouf Province, KSA and its relation with Gut Microbiota |