

Academic Curriculum Vitae



Personal Information:

Full Name: **Sarbaz Ibrahim Mohammed**

Academic Title: **Assistant professor**

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Education:

Salahaddin University-Erbil, Iraq	Biology	B.S., 1987
Salahaddin University-Erbil, Iraq	Animal Physiology	M.S., 1997
Babylon University-Iraq	Zoology/Hematology	Ph.D., 2007

Employment:

Biology department/college of science /Salahaddin University-Erbil, Iraq

Qualifications

N.H Collection	Two weeks	National Museum Wales, Cardiff, UK
Training of Iraqi teacher	17 days	Edmonton- Alberta- Canada
Management workshop Biorisk	5 days	Antalya –turkey
Teaching methods	One month	Salahaddin University - Erbil
Computer	One month	Salahaddin University - Erbil

Cover letter

I am very interested in being considered for the above position and am eager to showcase the contributions I can make. My research and teaching interests align closely with the requirements of this role and complement the expertise of the current staff. I bring extensive teaching experience in the biology department at Salahaddin University, primarily in Hematology. My work serves as a valuable

connection between zoology and animal physiology within the department, fostering collaborative efforts in research and teaching.

I was awarded my Ph.D. by the biology department at Salahaddin University in 2007. My thesis was entitled (**Iron status as a predictor of impaired Growth and puberty in Kurdish thalassemia major patients**). In it, I explore A total of seventy-four homozygous β -thalassemic patients (40 males and 34 females) at different stages of the disease were collected at random and twenty-seven healthy individuals as a control group during the study period, in order to study the effects of iron status on different variables such as hormones, biochemical and haematological characteristics of these patients. The following results were obtained.

There was evidence of primary hypothyroidism as defined by a high baseline TSH and a low or normal T_4 in children with multi-transfused iron loaded thalassemia in comparison with those of the controls. Result indicates that FSH value increased significantly and testosterone level fall in male, but in females with primary amenorrhea, there were significant decrease in LH level and estrogen level. Iron overload lead to growth retardation or short stature defined by significantly lower GH concentration than those for the controls. HbF % and HbA₂ level were increased and Hb decreased significantly in both sexes of patients. The red cell count, haematocrite value (or PCV), MCH and MCHC were significantly decreased and reticulocyte %, RDW-CV increased in both sexes. Disease significantly increased WBCs, lymphocyte %, lymphocyte absolute value, eosinophil %, eosinophil absolute and monocyte absolute in female and significantly reduced neutrophil % in both sex with the exception that the monocyte absolute is not significantly changed in males. Examination of blood smears of the thalassemic patient's shows a significant increase in target cell %, microcytes % and hypochromic % in both sexes. An appreciable number of patient's blood smears had shown macrocytosis. Splenectomy has increased the white cell and the platelet counts; it has also increased red cell distortion and normoblastaemia. The fasting serum glucose concentration, 2hr oral glucose tolerance value and liver function test was higher in homozygous β -thalassemic patients.

Serum ferritin, serum iron, serum phosphorus level increased and TIBC, serum calcium reduced significantly. There was negative correlation between s. ferritin and RBCs counts, Hb, HCT value, MCH value, MCHC value, neutrophil % and positively with lymphocyte %, eosinophil %, absolute lymphocyte, absolute eosinophil count, absolute monocytes, microcytes %, hypochromic %, reticulocyte count and RDW-CV in poly-transfused patients. There was positive correlation between s. ferritin and s. fasting glucose, GTT (in female), liver function test (in male), s. iron and negatively with TIBC levels, spinal trunk height in our patients. There was positive correlation between height spinal trunk and RBCs count, Hb concentration, HCT value, total weight, height in patients with beta-thalassemia major. In multi-transfused beta-thalassemic patient's s. ferritin level & s. iron concentration (only in male) increased significantly by increasing unit of blood transfusion.

Teaching experience:

- Comparative anatomy theory
- Basic hematology & Clinical Hematology theory
- Advance Hematology Msc student
- Avian physiology Ph.D student
- Fish physiology Ph.D student

Thesis Advisor

- 1- Dietary Antioxidant Supplementation Ameliorates the Physiological Toxicity Induced by Kurdistan Crude Oil in Common Carp *Cyprinus carpio*. Degree of PhD of Philosophy in Fish. A Dissertation. 2021
- 2- A Comparative Hemato-Biochemical Profiles and Phylogenetic Study of Some Cyprinids in Dukan Lake, Kurdistan. MSc, Thesis, 2015.
- 3- A Prospective Study of Some Blood Biomarkers and Incidence of Coronary Heart Disease among Male Type 2 Diabetes Mellitus Patient`s in Erbil City. M.Sc, Thesis 2014.
- 4- Effects of Repeated Whole Blood Donation on Some Hormonal, Haematological Parameters and Body Iron Stores in apparently Healthy Blood Donors in Erbil City. M.Sc, Thesis 2014.

- 5- Some Physiological Studies of Skin Pigmentation in Healthy Kurdish Primigravida Women. Dploma, Thesis 2012.

Research and publications

- 1- Some study on histological effect pyrethroids deltamethrine on kidney and testis of domestic rabbits *Oryctolagus cuniculus*. J. of Dohuk University.7(1) 2004.
- 2- Effect of thionamide(carbimazole) on some Biochemical parameters in adults domestic rabbits *Oryctolagus cuniculus*. J. of Babylon University. 14(3). 2006
- 3- Effect of thionamide(carbimazole) on some Hematological parameters in adults domestic rabbits *Oryctolagus cuniculus*. J. of Babylon University14(3)2006.
- 4- A Study of Iron Status as a Predictor of Impaired Growth and Puberty in Kurdish Thalassaemia Major Patients. Babylon University Ph.D Thesis. 2007
- 5- Iron Status as a Predictor of Impaired Glucose Tolerance and liver function in Kurdish Thalassaemia Major Patients. Zanco J. for pure and Applied sciences 20(5) 2008.
- 6- Comparison Between Hypo-Osmotic Swelling and staining Tests for Determination of Human Sperm Viability J. of Dohuk University12(1)2009.
- 7- Effect of Iron overload on Malondialdehyde Level in Beta-Thalassaemia Patients. Zanco J. for pure and Applied sciences. 21(5)2009.
- 8- A Study on cave-dwelling geckos in Iraq, with the description of a new species from Saffine mountain. Zoology in the Middle East 47 2009.
- 9- The antioxidant and hepato-protective effect of aqueous *Zingiber officinale* extract against Cadmium Bromide toxicity in females Wister Albino Rats (*Rattus norvegicus*). Zanco J. for pure and Applied sciences. 23(1) 2010
- 10-First record of the Rat Snake, *Zamenis hohenackeri* (Strauch, 1873), from north-eastern Iraq with notes on other colubrid snakes. Zoology in the Middle East (54) 2011.
- 11-Iron Status as a Predictor of Impaired some haematological characteristics in Kurdish Thalassaemia Major Patients. Kurkuk university journal scientific studies 6(3) 2011.
- 12-Horsehair worms (Nematomorpha: Gordioidea) from Hazarost mountains stream, Kurdistan region, Iraq. Journal of research in Biology (7) 2011.
- 13-Ichthyofauna of Barazgir River Near Kherazook Village, Erbil Governorate, Northern Iraq. Proceeding of the National-Level Workshop cum Seminar on Bio-Resources

- for Bio-Industries and Economic Zoology', January-2011, Solapur, Maharashtra, India 2011.
- 14-Iron status as a predictor of impaired puberty in kurdish thalassemia major patient International scientific Conference of Salahaddin University-Erbil. 2011.
 - 15-A review of the Lacertini of Iraq in Iraqi collections. *Herpetozoa* 25 (3/4) 2013.
 - 16-Some ecological observations on kona goreg area, Erbil, Kurdistan, Iraq. *World Journal of Pharmaceutical research*. 2(4) 2013.
 - 17-zoogeographical distribution of fishes on kurdistan region. *Trends in Fisheries Research* 2(1) 2013.
 - 18-Ameliorative Effect of the Aqueous Extract of *Zingiber officinale* on the Cadmium-Induced Liver and Kidney Injury in Females Rats. *Jordan Journal of Biological Sciences*. 6(3)2013.
 - 19-New records of snakes from Iraq (Reptilia: Colubridae). *Zoology in the Middle East* 60 (1) 2014.
 - 20-Lizards biodiversity of arid regions in Iraq. *J. Genet. Environ. Resour. Conserv.* 2(1) 2014.
 - 21-New host record of abbreviate baltazardi (Nematoda: physalopteridae) from the lizard, *Laudakia (agama nupta)* in Rawandoz mountains, Kurdistan region. *J. of parasitology and vector biology* 7 (3) 2015.
 - 22-Two new records of dwarf snakes of the genus *Eirenis jan* (reptilian, colubridae) in Iraqi Kurdistan (north and northeast of Iraq) with annotated checklist, for the genus *Eirenis* in Iraq. *Bulletin Iraq natural history museum* 13 (4) 2015.
 - 23-Molecular identification and Phylogenetic tree of some fish (Cyprinidae) in Dukan Lake, Kurdistan of Iraq. *ZANCO Journal of Pure and Applied Sciences(ZJPAS)* 29 (1); 140-145 2017
 - 24-A Comparative Biochemical Profile of Some Cyprinids in Dukan Lake, Kurdistan region. 6th ICOWOBAS 2017.
 - 25- التنوع الجيولوجي و اهميه الاثارية فى موقع بازيان (شمال العراق) والكصير (وسط العراق جامعة بغداد مجلة الاداب كلية الاداب) 2017
 - 26-Review Of Opisthoglyphous Snakes (Reptilia, Ophidia) Of Iraq. *Bull. Iraq nat. Hist. Mus.* June, (2019) 15 (3): 335-342
 - 27- The Role Of Dietary Supplementation Of Toxin Binding (*Toxebonde Forte*) On Some Physiological Parameters In Juvenile Common Carp *Cyprinus Carpio* Exposed Of Sublethal Doses Of Water Soluble Fraction Of Crude Oil. *Plant Archives*. Vol. 20, Supplement 2, 2020 pp. 1926-1937.
 - 28-The first record of the genus *Microgecko* Nikolskii, 1907 for Iraq. *Herpetozoa*. 33: 149–155 .2020.
 - 29-Vertebrate Specimens Deposited at Kurdistan Natural History Museum. *Jordan Journal of Natural History*, 7, 2020

- 30-EFFECTS OF WATER SOLUBLE FRACTION OF CRUDE OIL AND DIETARY SUPPLEMENTATION OF ROSEMARY ON COMMON CARP (CYPRINUS CARPIO) Journal of Animal & Plant Sciences, 32(1): 2022, Page: 266-279 ISSN (print): 1018-7081; ISSN (online): 2309-8694 <https://doi.org/10.36899/JAPS.2022.1.0422>
- 31-Natural radioactivity and radiological risk assessment due to building materials commonly used in Erbil city, Kurdistan region, Iraq. Environ Monit Assess (2023) 195:140 <https://doi.org/10.1007/s10661-022-10745-x>
- 32- Radiological assessment of radon concentration, radon exhalation rate, and annual effective dose of building materials used in Erbil city Kurdistan region, Iraq, International Journal of Environmental Analytical Chemistry 2022, DOI: 10.1080/03067319.2022.2140412
- 33- Environmental health risks of radon exposure inside selected building factories in Erbil city, Iraq. International Journal of Environmental Analytical Chemistry, 2022. 1–15. <https://doi.org/10.1080/03067319.2022.2107923>
- 34- Investigating the Interplay of Hematological Parameters, CD Markers, Genetic Polymorphisms, and Database Mutations in the IL15 Gene in Acute Myeloid Leukemia Patient. Cellular and Molecular Biology, 2023
- 35-Mutations in the Interleukin-15 Gene as a Molecular Biomarker in the Atherosclerosis Disease. ZANKO Journal of pure and applied sciences
- 36- IL-15 gene mutation as a molecular risk factor in acute lymphoid leukemia. Cellular and Molecular Biology, 2024

Professional memberships

- 1998/ Membership in Kurdistan teachers society
- 2004/ Membership in cultural and social center
- 2007/ Membership of Kurdistan Biological Syndicate.
- 2008/ Director of Kurdistan Museum of natural history