

University of Salahaddin-Erbil
College of Science
Environmental Sciences and Health
Department



CURRICULUM VITAE

Personal particulars

Name: Prof. Dr. Yahya Ahmed Shekha

Date and place of Birth: 31th January 1971, Erbil, Iraq.

Marital status: Married

Nationality: Iraqi

Current position: Professor in the Department of Environmental Sciences and Health, College of Science, Salahaddin University-Erbil, Iraq.

11-5-1995 Date of first assignment in the University as MSc degree in Ecology and Pollution in Biology Department- College of Science- Salahaddin University, Erbil.

From 2009 till now in Environmental Sciences Department- College of Science- Salahaddin University, Erbil.

Field of specialization: Ecology, Environmental Pollution, Wastewater Monitoring, Environmental microbiology, Aquatic Invertebrate, Limnology, Water quality and pollution.

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Academic and professional qualifications

2008 Awarded Ph.D. in Ecology and Pollution/ Water quality and Pollution, Biology Department, University of Baghdad, Iraq. "**The effect of Erbil city wastewater discharge on water quality of Greater Zab river, and the risks of irrigation**" PhD Dissertation, Biology Department, University of Baghdad, Iraq.

1995 Awarded M.Sc. in Aquatic Microbiology, Biology Department, College of Science, University of Salahaddin, Iraq. "**An ecological study on the main sewage channel of Erbil city**", M. Sc. Thesis, Biology Department, College of Science, University of Salahaddin-Erbil, Iraq.

| Researchers academic attainments | Types of diploma | University | College | Departments | Graduation Year | Country |
|----------------------------------|------------------|---|---------|-------------|-----------------|---------|
| | B.Sc. | Salahaddin | Science | Biology | 1992 | Iraq |
| | M.Sc. | Salahaddin | Science | Biology | 1995 | Iraq |
| | Ph.D. | Baghdad | Science | Biology | 2008 | Iraq |
| General specialization | | Biology | | | | |
| Specific specialization | | Ecology and Pollution (Environmental Microbiology and Aquatic Invertebrate) | | | | |
| Academic titles attained | | Assistant Lecturer | | | 5-8-1995 | |
| | | Lecturer | | | 31-5-2003 | |
| | | Assistant Professor | | | 27-3-2009 | |
| | | Professor | | | 16-4-2017 | |

| Subjects under teaching | |
|-------------------------------|---|
| 1. Environmental Sciences | 7. Public Health (Environmental Health) |
| 2. Environmental Pollution | 8. Biological Indicators |
| 3. Environmental Microbiology | 9. Waste Management |
| 4. Ecology | 10. Scientific Debate |
| 5. General Biology | 11. Invertebrate |
| 6. Water Quality Monitoring | 12. Water and Soil Analysis |

1) Journals and conferences

- 1- Shekha, Y.A. (2001). An ecological and bacteriological study for groundwater in Arbil region. Journal of Central Berayeti. Vol.18:
- 2- Aziz, F.H.; Darogha, S.N. and Shekha, Y.A. (2001). Ecological and microbiological studies of Arbil city's sewerage. Journal of Central Berayeti. Vol.18:
- 3- Aziz, F.H.; Ganjo, D.A. Shekha, Y.A. (2004). Observations on the limnology of polluted pond in Arbil city, Iraq. Zanco J. Vol.16(1):
- 4- Aziz, F.H.; Ganjo, D.A. Shekha, Y.A. (2006). An attempt for reuse of the wastewater of Erbil city for irrigation purposes. Vol.18(2):
- 5- Esmail, A.U.; Maulood, P.M. and Shekha, Y.A. (2007). Evaluate Kasnazan impoundment water for irrigation purposes. J. of Education and Science – Mosul University. Vol.18(2):
- 6- Shekha, Y.A.; Ali, L.A. and Toma, J.J. (2009). Determinants of the microbiological characteristics of Erbil city public swimming pools. J. of Duhok Univ. Vol.12(1):
- 7- Maulood. B.K. and Shekha, Y.A. (2009). An ecological study on the main sewage channel of Erbil city, Iraq. Al- Nahrain J.
- 8- Shekha, Y.A. (2009). Effect of Different Treatments of Raw Edible Vegetables Irrigated by Untreated Sewage water from Microbiological Aspect. J. of Duhok Univ. Vol.12(1):
- 9- Shekha, Y.A. and Al-Abaychi, J.K. (2009). Community structure of zooplankton in Greater Zab River and Erbil wastewater channel. Zanco J. Vol.21(3):
- 10- Shekha, Y.A. and Al-Abaychi, J.K. (2009). Abiotic Factors and Their Influences on Phytoplankton Density in Greater Zab River (Khabat subdistrict-Erbil, Iraq). Zanco J. Vol.21(2):71-80.

- 11- Shekha, Y.A.; Hyder, N.H. and Al- Barziny, Y.O. (2010). The effect of wastewater disposal on the water quality and phytoplankton in Erbil wastewater channel. *Baghdad Science J.* Vol.7(2): 984-993.
- 12- Shekha, Y.A. and Al-Abaychi, J.K. (2010). Use of water quality index and dissolved oxygen saturation as indicators of water pollution of Erbil wastewater channel and Greater Zab River. *J. of Duhok Univ.* Vol.13(2):
- 13- Shekha, Y.A. (2011). A Study of Benthic Macroinvertebrate Community in the Lower Part of Greater Zab River near Guwer Subdistrict. *J. of Rafidain Science.* Vol.22(1):33-45.
- 14- Shekha, Y.A. and Al-Abaychi, J.K. (2011). Study of microorganisms' pollution of vegetable crop wild raddish (*Raphanus raphanistrum* L.) irrigated with Erbil wastewater channel. *J. of Kirkuk University.*
- 15- Shekha, Y.A. (2011). Household Solid Waste Content in Erbil City, Iraqi Kurdistan Region, Iraq. *Zanco Journal of Pure and Applied Sciences.* Vol.23(3): 1-8.
- 16- Shekha, Y.A. and Al-Abaychi, J.K. (2011). Study the Density and Diversity of Some Invertebrate Groups in Erbil Wastewater Channel and Greater Zab River, Erbil. *Al- Rafidain J.2nd Scientific Conference for Biological Science-Sci College –Mosul University.* 16-17 Nov.2011 297-308.
- 17- Shekha, Y.A. and Al-Abaychi, J.K. (2013). Assessment of Monthly Variation of Two Water Bodies in Erbil Governorate. 1st International of Scientific Conference. *Journal of University of Zakho,* Vol.1, (A) No.1: 821-831.
- 18- Shekha, Y.A.; Ismael, H. M. and Ahmed, A. A. (2013). Bacteriological and Mycological Assessment for Water Quality of Duhok Reservoir. *Jordan J. of Biological Science.* Vol.6(4):308-315.
- 19- Shekha, Y.A. (2013). Multivariate statistical characterization of water quality analysis for Erbil wastewater channel. *J. of Environmental Science, Toxicology and Food Technology.* Vol.5(6):18-26.
- 20- Shekha, Y.A. (2015). Sulfate content in some water systems within Erbil City/KRG by using turbidimetric and titrimetric methods. *Journal of Zankoi Sulaimani.* Vol.17-3(Part A): 179- 184.
- 21- Ali, L.A.; Shekha, Y.A.; Ahmed, S.T. Aziz, F.M. (2015). A New Record of Two Species of Hydra in Iraq: An Ecological and Histological Study. *Jordan J. of Biological Science.* Vol.8(4): 269- 272.
- 22- Hanna, N.S. and Shekha, Y.A. (2015). Using aquatic insects in water quality assessment of some branches of Greater Zab River within Erbil city, Iraqi Kurdistan Region. *American International Journal of Research in Formal, Applied and Natural Sciences.* Vol.8:18-22.
- 23- Shekha, Y.A.; Toma, J.J. and Al- Barziny, Y.O. (2016). Algal Survey in Wastewater Channel of Erbil City, Iraq. *Diyala Journal for Pure Science.* Vol.12 (4): 39-57.
- 24- Shekha, Y.A.; Ali, L.A. and Toma, J.J. (2017). Assessment of Water Quality and Trophic Status of Duhok Lake Dam. *Baghdad Science Journal.* 14(2):335-342.
- 25- Shekha, Y.A. (2016). Evaluation of Water Quality for Greater Zab River by Principal Component Analysis/ Factor Analysis. *Iraqi Journal of Science,* 2016, Vol. 57, No.4B.: 2650-2663.
- 26- Shekha, Y.A.; Toma, J.J. and Ismael, H. M. (2017). Study algae and fungi interaction in some artificial open sand mine ponds in Kalak sub-district, Duhok, Iraq. *Diyala Journal for Pure Science.* 13(2):109- 131.
- 27- Mohammad Amin, J.K. and Shekha, Y.A. (2016). Environmental Impacts of Sand and Gravel Mining on Water Quality and Biodiversity in Kalak Sub-District. *ZANCO Journal of Pure and Applied Sciences.* 28 (5): 281-192.

- 28- Dalshad A. Darwesh, Yahya A. Shekha, and Janan J. Toma. (2017). Application the DRIS equation to assess the nutrient status of Dukan and Duhok lakes in northern of Iraq. *Diyala Journal of Agricultural Sciences*. 9(2):
- 29- Hanna, N. S. and Shekha, Y.A. (2017). Assessment of Water Quality for Zar Gali Stream, Bekhal (Maran) and Khalan Rivers within Erbil, Iraq. *ZANCO Journal of Pure and Applied Sciences*. 29 (1): 171-181.
- 30- Yahya A. Shekha; Luay A. Ali; Jamal K. Mohammed Amin; Shamal M. A. Abdullah and Atheer H. Ali. (2017). Additional Records of Freshwater Shrimp (Malacostraca: Crustacea) from Greater Zab River and Their Banks, Iraq. *ZANCO Journal of Pure and Applied Sciences*. 29 (5): 84-90.
- 31- Shekha, Y.A.; Al-Attar, M.S.; Saleem, M.A.; Toma, J.J.; Goran, S.M.A. (2017). Effect of landfill leachates extract of Erbil city on abnormal sperm morphology and chromosomal aberrations in male albino mice. *ZANCO Journal of Pure and Applied Sciences*. 29 (6): 18-27.
- 32- Shekha, Y.A.; Toma, J.J. and Al- Barziny, Y.O. (2018). An Ecological Assessment for Water Quality of Some Water Bodies in Koysenjaq-Erbil, Iraq. *Journal of Al- Nahrain University-Science*. 21 (2): 119-129.
- 33- Shekha, Y.A.; Maulood, P.M.; Sadraddin, Z.A. and Khalifa, M.H. (2018). Phytotoxicity of sewagewater and leachate of solid waste on seed germination and seedling growth of *Vicia faba* L. (Faba bean). *ZJPAS* (2019) , 31(2);65-70.
- 34- Jalal. S.Y. and Shekha, Y.A. (2017). Compost quality assessment for the household solid wastes of Erbil city. *ZJPAS* (2019) , 31(6);143-149.
- 35- Sayran Yousif Jalal, Nihal Suhail Hanna, Yahya Ahmed Shekha. (2019). The effects of Insects on the Physicochemical Characteristics During Composting. *Iraqi Journal of Science*, Vol.60, No.11, pp: 2426-2432.
- 36- Shelan M. Khudhur and Yahya A. Shekha. (2019). Histopathological and Biochemical Biomarker Response of Mussel, *Unio pictorum*, to Carbamate Pesticide Carbaryl: A Laboratory Study. *Indian Journal of Animal Science*. DOI: 10.18805/ijar.B-1157.
- 37- Hanna, N. S.; Shekha, Y.A. and Ali, L.A. (2019). Water quality assessment of Rawanduz River and Gali Ali Beg stream by applied CCME WQI with survey aquatic insects (Ephemeroptera). *Iraqi Journal of Science*, Vol.60, No.12, pp: 2550-2560.
- 38- Shelan M. Khudhur and Yahya A. Shekha. (2020). Morphological and molecular identification of three genera of the family: Heptageniidae (Ephemeroptera) from Ava Sheen branch, Greater Zab tributary north of Iraq. *Iraqi Journal of Science*, Vol.61, No.5. pp:952- 960.
- 39- Shelan M. Khudhur and Yahya A. Shekha. (2021). Description of Some Aquatic Insect Genera in Greater Zab River Branches, North of Iraq. *Al-Nahrain Journal of Science*. ANJS, Vol.24 (4), December, 2021, pp. 68-78.
- 40- Muzhda. Q. Qader and Yahya A. Shekha. (2022). Application of two fungal strains *Aspergillus niger* and *Candida albicans* in wastewater quality improvement. *Journal of Education and Science*. Vol.34, No.4. pp:33- 41.
- 41- Muzhda. Q. Qader and Yahya A. Shekha. (2023). Potential of Fungal-Microbial species in the Environmental Biotechnology. *Passer Journal*. Vol.5, No.1. pp: 52- 58.
- 42- Muzhda. Q. Qader and Yahya A. Shekha. (2023). Role of Microalgae in Environmental Biotechnology to Remove Heavy Metals. *Journal of Applied Sciences and Nanotechnology*. 3(1):174-184.

- 43- Halwest A. Hassan and Yahya A. Shekha. (2023). Detection of Parasitic Contamination of Cress crop Irrigated with two types of Water in Jumka village, Erbil – Iraq. Rafidain Journal of Science. Vol. 32. No.2:1-9.
- 44- Rezan S. Ahmed, Sayran Y. Jalal, Hero M. Ismael, and Yahya A. Shekha. (2023). Chemical and Biological Properties of compost produced from house solid waste. Zanco Journal of Pure and Applied Sciences. 35(3);153-158.
- 45- Muzhda. Q. Qader and Yahya A. Shekha. (2023). Using microalga *Coelastrella* sp. to remove some nutrients from wastewater in vitro. Baghdad Science Journal. 20(4): 1218-1227.
- 46- Muzhda. Q. Qader and Yahya A. Shekha. (2023). Using Microalga *Scenedesmus Quadricauda* for the Improvement of Municipal Wastewater Quality. Iraqi Journal of Science. Vol. 64, No. 5, pp: 2178-2188.
- 47- Muzhda. Q. Qader and Yahya A. Shekha. (2023). Application of Micro-alga *Tetradesmus nygaardi* for Wastewater Quality Improvement. Al-Nahrain Journal of Science. 26(4): 59-66.
- 48- Muzhda. Q. Qader and Yahya A. Shekha. (2023). Bioremediation of Heavy Metals by using *Aspergillus niger* and *Candida albicans*. Zanco Journal of Pure and Applied Sciences. 35(3):180-186.
- 49- Muzhda. Q. Qader and Yahya A. Shekha. (2023). Role of Environmental Biotechnology in Remediation of Heavy Metals by Using Fungal-Microalgal Strains. Basrah Journal of Agricultural Sciences. 36(1): 16-28.
- 50- Kawa A. Ali; Pakhshan M. Maulood; Shireen A. Amin; Yadi Omer Mustafa Al- Barzingy and Yahya A. Shekha. (2023). The Allelopathic Potential of Some Lower Plants on Growth, and Yield of Wheat Plants. International Collaborative Conference of Modern Agricultural Technologies 2023, 3-4 May 2023, Erbil-Iraq. Earth and Environmental Science (EES). IOP Conf. Series: Earth and Environmental Science. 1252 (2023) 012040.
- 51- Hanna, N. S. and Shekha, Y.A. (2024). Acute Toxicity of Chlorpyrifos on the Freshwater bivalves (*Unio Tigridis*) and effects on bioindicator. Baghdad Science Journal. 21(1): 53-61.
- 52- Hanna, N. S. and Shekha, Y.A. (2024). Behavioral and Biochemical Variations in *Unio tigridis* After Exposure to Lead Nitrate. Iraqi Journal of Science. 65(3):1276-1285.
- 53- Mohammad Amin, J.K. and Shekha, Y.A. (2024). Assessment of Heavy Metal Contamination in Dust Samples from Industrial and Non-Industrial Sites in Erbil Governorate. Rafidain Journal of Science. Vol. 33, No. 2, pp.
- 54- Mohammad Amin, J.K. and Shekha, Y.A. (2024). Investigating the Role of Some Biomarkers in Assessing the Proposed Air Pollution Effects in Selected Areas in Erbil Governorate. Baghdad Science Journal.
- 55- Mohammad Amin, J.K. and Shekha, Y.A. (2024). Indoor Sulfur Dioxide Prediction through Air Quality Modelling and Assessment of Sulfur Dioxide and Nitrogen Dioxide Levels in Industrial and Non-Industrial Areas. Environmental Monitoring and Assessment. Vol. 196, article No. 463

Supervision of postgraduate students:

1. Jamal Kamal Mohammed Amin. (2014). Assessment of Environmental Impacts of Sand and Gravel Mining in Kalak Sub-District. (MSc. In Water quality and pollution- Zooplankton). Environmental Sciences and Health Department. Science College. Salahaddin University.
2. Nihal Suhail Hanna. (2015). Using Aquatic Insects as Bioindicators in Water Quality Assessment of Bekhal (Maran), Zar Gali and Khalan Streams. (MSc. In Water quality and pollution- Aquatic Insects). Environmental Sciences and Health Department. Science College. Salahaddin University.
3. Sayran Y. Jalal. (2016). Applied Compost Quality indices for Assessment Different Composting Methods by Using Household Solid Waste. (MSc. In Solid waste management). Environmental Sciences and Health Department. Science College. Salahaddin University.
4. Rezan Sabah Ahmed. (2017). Microbiological and physicochemical study of wastewater and their impacts on (*Raphanus* sp.) and soil at Turaq area, Erbil. (MSc. In Environmental Microbiology). Environmental Sciences and Health Department. Science College. Salahaddin University.
5. Shelan Mustafa Khder. (2020). Macroinvertebrates as a Biological Indicator for Water Quality Assessment in Greater Zab River Branches from Sheladzae to Qandel Bridge- Kurdistan Region of Iraq. (PhD in Water Quality and Pollution). Environmental Sciences and Health Department. Science College. Salahaddin University.
6. Muzhda Qasim Qader. (2023). Wastewater Quality Improvement by Using Microalgal and Fungal Inoculum. (MSc. In Environmental Biotechnology). Environmental Sciences and Health Department. Science College. Salahaddin University.
7. Halwest Abdul-Kareem Hassan. (2023). Assessment of parasitic contamination of non-cooked vegetables irrigated by raw wastewater in Erbil city, Iraq. (MSc. In Environmental Microbiology). Environmental Sciences and Health Department. Science College. Salahaddin University.
8. Nihal Suhail Hanna. (2024). Risk Assessment of Some Chemical Pollutions from Anthropogenic Activities on Two Macroinvertebrates as Bioindicators. (PhD in Ecotoxicology). Environmental Sciences and Health Department. Science College. Salahaddin University.
9. Jamal Kamal Mohammed Amin. (2024). (PhD in Air Pollution and Human Health).

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