

Name: Dr. Rana Riyadh Khaleel Ismail.
Assistant Prof.

Affiliation: Scientific Affairs Department, Vice President of University for Scientific Affairs Office, University of Technology- Iraq

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1) Biography:

Dr. Rana Riyadh Khaleel Ismail was awarded her B.Sc & M.Sc degrees in **Biology** from the University of Al-Mustansiyria and Baghdad in **1997 & 2001**, respectively. She gained her **PH.D** degree in **Biology/Ecology** from the University of Baghdad, in **2019**.

She works with the academic staff of the Scientific Division, Scientific Affairs Department, Vice President of the University for Scientific Affairs Office ,University of Technology- Iraq.

2) Education:

- B. Sc. In Biology (Microbiology) 1996-1997 Al-Mustansiyria university/Collage of Science/ Biology Department.
- M. Sc. In Application of lasers in Biology 2001-2002 University of Baghdad/Institute of laser for postgraduate studies.
- PH.D. In Ecology 2018-2019 Baghdad University/Collage of Science/ Biology Department.

3) Research Interest:

- Water pollution, water quality indices, phytoremediation, laser radiation, surfactant extraction, soil (sediment) and water analysis.

4) Publications:

- 1- Effects of N₂ and He-Ne laser on Eggs development of the Old World Screw-Worm Fly (OWSWF) *Chrysomya bezziana* Villeneuve (Diptera: Calliphoridae). Tikrit journal for pure science Vol. 9(1) 2003 pp. 215-227.
- 2- The Influence of short wavelength laser on the pupae development of the Old World Screw-Worm Fly (OWSWF) *Chrysomya bezziana* Villeneuve (Diptera: Calliphoridae). Iraqi J. Laser, part B Vol.2 (2003) pp. 31-37.

- 3- The effects of He-Ne laser on viability and growth rate of *Leishmania major*. Iraqi J. Laser, part B Vol.6 (2007) pp. 17-20.
- 4- Primary diagnosis of abnormal urine via autofluorescence process. Iraqi J. Laser, part B Vol.7 (2008) pp. 15-19.
DOI: <https://doi.org/10.31900/ijl.v7iA.127>
- 5- Changes of the susceptibility of *Staphylococcus aureus* bacteria to the local therapeutic agent by using Nitrogen laser. Um-Salama science Journal Vol. 6(2) 2009 pp. 346-353.
- 6- Stimulation of hatching efficiency in capsulated cysts of *Artemia fransiscana* using 890nm diode laser. Baghdad science journal Vol. 8(1) 2011 pp. 66-72.
- 7- Assessment of water Quality in the Selected sited on the Tigris River. International Journal of Advanced Research, Vol. 2(5) 2014, pp: 1125-1131. (http://www.journalijar.com/uploads/364_IJAR-3358.pdf).
- 8- Phytochemical analysis of some Iraqi medicinal plants. World Journal of Pharmaceutical Sciences World J Pharm Sci 2014; 2(12): 1837-1840
- 9- Isolation and Identification for Some Bacteria from Polluted Soil with Diesel around Powered Generators. International Journal of Advanced Research (2015), Volume 3, Issue 3, 1019-1023
- 10- Assessment of natural radionuclides in powdered milk consumed in Iraq. International conference on Radioecology and Environmental Radioactivity 7-12 Sept. 2014, Barcelona, Spain. Journal of Natural Sciences Research www.iiste.org ISSN 2224-3186 (Paper) ISSN 2225-0921 (Online) Vol.6, No.13, 2016
- 11- Identification and characterization of air bacteria from some school of Baghdad city. Mesopotamia Environmental Journal ISSN 2410-2598 Mesop. environ. j. 2016, Vol.2, No.4: 9-13.
- 12- Study the Pollutants Chlorophenols: Electronic and Physical Properties Relationship Eng. & Tech. Journal, Vol. 34, Part (B), No. 3, 2016
- 13- Extraction of the resin from the fig plant and studying its physicochemical properties, Journal of Agricultural, Environmental and Veterinary Sciences, Arab Journal of Science and Research Publishing - Issue 1 - Volume 1 - March 2017. pp: 13-17. DOI: [10.26389/AJSRP.A211216](https://doi.org/10.26389/AJSRP.A211216)
- 14- Detection of Detergents (Surfactants) in Tigris River- Baghdad/Iraq. International Journal of Environment & Water Vol 6, Issue 2, 2017:1-15.
<https://www.researchgate.net/publication/321701314>
- 15- Assessment of Some Heavy Metal Concentrations in Drilling Mud samples in Az Zubair Oil Field, Basra, Iraq, Engineering and

- Technology Journal Vol.36, Part B, No.1, 2018 DOI: <http://dx.doi.org/10.30684/etj.36.1B.12>
- 16- Multivariate analysis for evaluation the water quality of Tigris River within Baghdad city in Iraq. Iraqi Journal of Agricultural Sciences 2019;50(1):332-341 (clarivit & Scopus). <https://www.researchgate.net/publication/331598000>
 - 17- Bioaccumulation of Anionic and Nonionic Surfactants in *Ceratophyllum demersum* Plant in Tigris River, Baghdad, Iraq. Indian Journal of Ecology 2019, Vol. 46(2):417-421(clarivit & Scopus). <https://www.researchgate.net/publication/333702509>
 - 18- Radon assessment for selected sites in Tigris River. Water Science and Technology: Water Supply (clarivit). 2019.IWA Publishing, Alliance House, 12. <https://doi.org/10.2166/ws.2019.037>
 - 19- Naturally occurring radon assessment in Al-Rustumia wastewater treatment plant. Applied Water Science (2019) 9:179.<https://doi.org/10.1007/s13201-019-1074-x> (clarivit)
 - 20- Quantity and quality of surfactants in sediment of Tigris River, Iraq. Desalination and water treatment. www.deswater.com. doi:10.5004/dwt.2019.24679 (clarivit), 170 (2019) 168-175 December **ISSN Print 1944-3994 ISSN Online 1944-3986**
 - 21- Gamma activity in Tigris river water and Rustumai wastewater treatment plant. International Journal of Physical Research, 8(1) (2020): 27-34. www.sciencepubco.com/index.php/IJPR. (Academic & Scientific Journal).
 - 22- **Book title:** River Deltas - Recent Advances. **Chapter title:** **Environmental Evaluation of Surfactants: Case Study in Sediment of Tigris River, Iraq (2020).** Environmental Evaluation of Surfactant: Case Study in Sediment of Tigris River, Iraq DOI: <http://dx.doi.org/10.5772/intechopen.94324>
 - 23- Medical waste management during COVID-19 pandemic, areview study IOP Conference Series: Earth and Environmental Science-5ISCESD 2021, IOP Conf. Series: Earth and Environmental Science **779** (2021) 012130-IOP PublishingDOI: [10.1088/1755-1315/779/1/012130](https://doi.org/10.1088/1755-1315/779/1/012130) (scopus)-ISSN:1755-1315
 - 24- Radioactivity Assessment in the Sediments Samples of Tigris River, Baghdad, Iraq_5ISCESD 2021 IOP Conf. Series: Earth and Environmental Science **779** (2021) 012050 IOP Publishing DOI: [10.1088/1755-1315/779/1/012050](https://doi.org/10.1088/1755-1315/779/1/012050) (scopus)-ISSN:1755-1315
 - 25- Effects of Laser on the Efficiency of Diesel Degrading Bacteria. Indian Journal of Ecology (2022) 49 Special Issue (18): 559-565.
 - 26- Radon Assessment in *Ceratophyllum demersum* Plant Samples. Iraqi Journal of Science (2022) Vol. 63, No. 12, pp: 5278-5285. <https://doi.org/10.24996/ijs.2022.63.12.17>

- 27- Radioactivity assessment in Euphrates river sediment samples. GSC Advanced Research and Reviews, 2023, 14(03), 265–271. <https://doi.org/10.30574/gscarr.2023.14.3.0095>
- 28- The Synergistic Anticancer Effect of Some Plant Extracts in Combination against Human Liver Cancer Cell Line. Asian Journal of Dairy and Food Research, Volume 42, Issue 1. 2023. <https://doi.org/10.18805/ajdfr.DRF-297>
- 29- Sclerosing Central Mucoepidermoid Carcinoma: Rare Case Series and Review Central Mucoepidermoid Carcinoma. Iraq Medical Journal (IMJ) Vol. 7 No. 1 (2023): Winter 2023. DOI:<https://doi.org/10.22317/imj.v7i1.1204>
- 30- Application of the Water Quality and Water Pollution Indexes for Assessing Changes in Water Quality of the Tigris River in the South Part of Iraq. Ecological Engineering & Environmental Technology 2023, 24(5), 177–184. <https://doi.org/10.12912/27197050/165901>
- 31- The Comparative Study of Quantitative Real-Time Monitoring QRT-PCR for BCR-ABL Gene in Chronic Myelogenous Leukemia (CML) Between Blood and Bone Marrow Samples. Iraq Medical Journal 2023, 7(2), 32-36. DOI: <https://doi.org/10.22317/imj.v7i2>
- 32- Evaluation of the Validity of Water Storage Tanks and the Impact of Water's Physical, Chemical, and Biological Characteristics <https://doi.org/10.1007/978-3-031-57054-4>
- 33- Removal of Heavy Metals (Cd and Pb) from Contaminated Soil by Amorphous Al and Fe Hydroxides

5) Teaching:

1. Pathology Department External Lecture / (Animal Histology) "Theoretical and Practical" / 2001-2002 Medical Technical Institute - Mansour.
2. Medical and Biological Applications Branch / (Parasitology) (4 hours for two weeks) / 2004.
3. Medical and Biological Applications Branch / (Computer Lab.) for Higher Diploma / 2003, 2004, 2005, 2008, 2009.
4. Medical and Biological Applications Branch/ (Optical and Laser Laboratory) for Higher Diploma/ 2003, 2004, 2005, 2008, 2009.
5. Practical teaching on (Environmental laboratory tests for graduate students) 2020-2021.
6. Practical teaching of (Environment Science) 2020-2021 Department of Life Sciences/ College of Science for Girls/ University of Baghdad/ First Semester

7. Practical Teaching of (Environmental Toxicology) 2020-2021
Department of Life Sciences/ College of Science for Girls/ University of Baghdad/Second Semester
8. Practical Teaching of (Environmental Toxicology) 2021-2022
Department of Life Sciences/ College of Science for Girls/ University of Baghdad/Second Semester
9. Practical teaching of (Environmental Management) 2022-2023
Department of Life Sciences/College of Science for Girls/University of Baghdad/First Semester.
- 10-Theoretical teaching of (Chemistry) 2022-2023 Department of Civil Engineering / University of Technology / First stage (morning) / second semester.
- 11- Water and soil analysis in lab. 2018- 2024.

6) Honors and Awards:

- 1- A certificate of thanks and appreciation for excellence in the educational qualification course for teachers (President of the University of Baghdad) 6/15/2002
- 2- A certificate of thanks and appreciation for participation in the conference (Dean of the Laser Institute for Postgraduate Studies) 1/2/2003
- 3- A certificate of thanks and appreciation for the success of the scientific symposium (Dean of the Laser Institute for Postgraduate Studies) 11/23/2008
- 4- A certificate of thanks and appreciation for the performance of the work entrusted to the trustees of chemical stores (assistant to the university president for scientific affairs) 2/5/2010
- 5- A certificate of thanks and appreciation in the administrative development course (assistant to the university president for administrative affairs) 2/12/2010
- 6- In delivering a lecture for the scientific symposium on 9/20/2012 "Laser Applications in Environmental Technologies" (Chairman Q.H. Laser and Optoelectronics) 11/26/2012
- 7- A certificate of thanks and appreciation for the success of the Environmental Research Center conference (Head of the Building and Construction Department / University of Technology) 1/20/2014

Academic Profiles Links:

- Google Scholar: <https://scholar.google.com/citations?user=yMULGQ8AAAAJ&hl=en>
- ResearchGate: <https://www.researchgate.net/profile/Rana-Al-Ani>
- Orcid: <https://orcid.org/0000-0003-4980-387>
- Web of Science: <https://publons.com/researcher/1631123/rana-r-al-ani/>
- Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57207687707>