Asst. Prof. Dr. Rabab Jabbar Sekhi

Assistant Professor of Microbiology, Department of Microbiology, College of Veterinary Medicine, University of Shatrah

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ACADEMIC BIOGRAPHY

Dr. Rabab Jabbar Sekhi is an Assistant Professor of Microbiology at the College of Veterinary Medicine, University of Shatrah, Dhi Qar, Iraq. She holds a Ph.D. in Microbiology and has over 12 years of academic and professional experience in higher education, having begun her academic career in February 2014.

Her academic and research interests include veterinary microbiology, bacterial immunology, antimicrobial resistance, bacterial pathogenesis and host–pathogen interactions. Her research focuses on bacterial identification and characterization, antimicrobial susceptibility testing, bacterial virulence factors and immunological responses to bacterial infections. She is actively involved in university teaching, scientific research and postgraduate education.

EDUCATION

2023	Ph.D. in Microbiology, College of Veterinary Medicine, University of Baghdad. Thesis: *The Role of Propolis Nanoparticles in the Immune Response Against Citrobacter freundii in Rats*
2011	M.Sc. in Microbiology, College of Veterinary Medicine, University of Baghdad. Thesis: *Correlation between enzymes of Staphylococcus aureus isolated from bovine mastitis and the effect of Lactobacillus supernatant on these enzymes in vitro and in vivo*
2007	B.V.M.S. (Veterinary Medicine and Surgery), College of Veterinary Medicine, University of Baghdad

RESEARCH INTERESTS

- Veterinary microbiology and bacteriology.
- Bacterial immunology and host–pathogen interactions.
- Antimicrobial resistance and antibiotic susceptibility.
- Bacterial virulence factors and pathogenesis.
- Bacterial identification and characterization.
- Bacterial antigens and immunological responses; immunological approaches to the prevention and control of bacterial infections.

TEACHING EXPERIENCE

University of Shatrah – College of Veterinary Medicine

2024 – present	Bacterial Physiology (Ph.D. students)
2024 – present	Practical Microbiology (M.Sc. students)
2020 – 2024	Microbiology (undergraduate)
2017 – 2018	Biochemistry (undergraduate)

Sumer University – College of Agriculture

2014 – 2017 Practical Microbiology (undergraduate)

SUPERVISION AND EXAMINATION

- Supervision of fourth-year research projects: Sumer University, College of Agriculture (2016); University of Shatrah, College of Veterinary Medicine (2022–2023).
- Member of committees examining undergraduate graduation projects (2015–2016 and 2023).
- Member of M.Sc. thesis examination committees.

PUBLICATIONS

1. Molecular detection of Klebsiella pneumoniae isolated from ruminant secretions in Al-Shatrah City, South Iraq. *International Journal of Environmental Sciences*, 2025, 11(4s), 144–156.
2. Inhibition of Pseudomonas aeruginosa by bacteriocin produced by Lactobacillus fermentum. *Assiut Veterinary Medical Journal*, 2024, 70(182), 9–17. doi:10.21608/avmj.2024.250029.1204
3. Pathogenic effect of C. freundii in rats. *Al-Shatrah Veterinary and Biological Sciences Journal*, 2024, 1(1), 14–20.
4. Propolis silver nanoparticles as an adjuvant in immunization of rats with Citrobacter freundii antigens. *Archives of Razi Institute*, 2023, 78(3), 973–979. doi:10.22092/ARI.2022.360089.2548
5. Effect of propolis silver nanoparticles on Gram-negative bacteria. *Indian Journal of Ecology*, 2022.
6. Urinary tract infection caused by Staphylococcus saprophyticus isolated from animal. *World Bulletin of Public Health*, 2022, 14, 100–104.
7. Pseudomonas aeruginosa: a review article. *European Scholar Journal*, 2022, 3(3), 78–84.
8. Isolation and characterization of Citrobacter freundii from sheep and detection of some of their virulence genes using PCR technique. *European Scholar Journal*, 2022.
9. Detection of AmpC genes by multiplex PCR in Citrobacter freundii isolated from sheep. *Turkish Journal of Physiotherapy and Rehabilitation*, 2021.
10. Molecular diagnosis of S. mutans isolated from dental caries in Thi-Qar Province. *Annals of the Romanian Society for Cell Biology*, 2021, 25(5), 2927–2931.
11. Effect of Lactobacillus casei supernatant on the growth and pathogenesis of enteropathogenic E. coli in vivo and in vitro. *Thi-Qar University Journal for Agricultural Researches*, 2020.