

Curriculum vitae

Name: Dr. Karzan Rafiq Sidiq

Scientific title: Assistant professor in **Molecular biology & Microbiology**

Date and place of Birth: 09/11/1979/ Chamchamal

Gender: Male

Nationality: Kurdish

Marital status: married

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Education and qualifications:

- 2012-2016 **PhD** in Molecular Microbiology/ Institute for Cells and Molecular Biosciences (ICaMB) /Faculty of Medical Sciences (FMS) /Newcastle University, UK.
Supervisor: Dr. Richard Daniel (richard.daniel@newcastle.ac.uk).
- 2005-2007 **MSc** in Medical Microbiology (Average: 90% (excellent)) /Department of Biology/ College of Science/ University Salahaddin-Erbil, Kurdistan region-IRAQ/
Supervisor: Dr. Fraidoon Abdulqadr Salih (fraidoon.salih@su.edu.krd).
- 2000-2004 **BSc** in Biology (Average: 87% (very good), first of the class)/ Department of Biology/ College of Science/ University of Sulaimani, Kurdistan region-IRAQ.
- 1998-2000 **Technical Diploma** in Community Health (Average: 80% (very good), first of the class)/ Sulaimani Technical Institute, Kurdistan region-IRAQ.

Scientific titles achievements:

- **Assistant lecture:** 27/09/2007
- **Lecture:** 19/05/2016
- **Assistant Professor:** 06/07/2021

Employment:

- I was employed by Chamchamal Technical Institute / Sulaimani Polytechnic University/ Ministry of Higher Education and Scientific Research/ Kurdistan Region-IRAQ between November 2004 to October 2016
- I have been employed by Charmo University / Ministry of Higher Education and Scientific Research/ Kurdistan Region-IRAQ since October 2016.
- I temporally trained at Chamchamal central clinical laboratory for one year.

Teaching skills:**My Philosophy in Teaching**

Teaching is a skill that everyone cannot perform it, because the professional future of individuals is responsibly shaped in teaching process. Good teachers should be in a tight scientific integration with the students, who are going to learn a particular field of science. Moreover, teachers must create a scientific atmosphere in the class and make information smoothly pass to the student's mind. When I teach, I feel I am an actor and the students are audience, so I sometimes turn the scientific subject to something social just to make the students smile. I think this strategy makes the students enjoy the lesson and prevents them being bored. My advice for students is that you must always believe that the teachers care about your future.

Teaching interest

- I enjoy teaching in the fields of Microbiology (including Bacteriology, Virology, parasitology, and Mycology). Also, I have teaching interest in Molecular Biology, Antimicrobial agents and Human Anatomy and physiology.

Teaching experience: I have good experience of teaching in Bologna process (or system)

- I taught students Microbiology, Human Anatomy and Human Physiology (theory and practice) at nursing department/ Chamchamal technical institute (2007-2012).
- I usually teach Microbiology, Molecular Biology, Antimicrobial agents, Human anatomy courses at the at the departments of Medical Laboratory Sciences, Pharmaceutical chemistry and medical physics at Charmo University.

Administrative experience:

- I was head of Nursing department at Chamchamal Technical Institute (2008-2012).
- I was deputy dean of Basic Education and natural sciences college at Charmo university (2016-2018).
- I was head of Biology department at Charmo centre for research, training and consultancy (2019-2021).
- Currently, I am Vice-president for scientific affairs and postgraduate studies at Charmo university (2023-present).

Higher educational study projects:

- **Master Thesis:** Karzan R. Sidiq and Faraydoon AK. Saleh (2007) Incidence of Methicillin-Resistant *Staphylococcus aureus* (MRSA) & other Nosocomial Bacteria in Wound Infections - Erbil. Link: <https://www.researchgate.net/publication/331928003>
- **PhD dissertation:** Karzan R. Sidiq and Richard Daniel (2016) Cell wall metabolism in *Bacillus subtilis* Link: <http://hdl.handle.net/10443/3243>

Research techniques experience:

- Conventional microbiological techniques.
- Nucleic acids (DNA and RNA) extraction.
- Primer designing.
- Polymerase chain reaction (PCR).
- Quantitative PCR (qPCR).
- DNA electrophoresis.
- DNA gel extraction
- Gene knockout (gene deletion) and gene insertion.
- Inactivation of protein through creation of point mutation.
- Cloning and gene expression.
- Protein over-expression and purification of His tagged protein.
- Denatured protein (SDS page) electrophoresis and native protein electrophoresis.
- Western blot.
- In vitro transcription.
- Fluorescent microscopy, Green Fluorescent Protein (GFP) tagging, labeling with fluorescent probes and immunofluorescence technique.
- Radioactive labeling.
- Reverse phase - High Performance Liquid Chromatography (RP-HPLC).
- Bioinformatics (phylogenetic tree and protein sequence alignment).

Participation in training courses

- Methods of teaching for university and institute lecturers (2009), and possession of the course certificate/ organized by Sulaimani University.
- Chemical safety/organized by Newcastle University.
- Biological and genetic modification safety/ organized by Newcastle University.
- Basic radiation protection and working with radioactive isotopes course/organized by Newcastle University.
- Epi-fluorescent microscopy and fluorescent probes/ organized by Newcastle University
- Basic flow cytometry course/ organized by Newcastle University.
- Bioinformatics and Metagenomics course/ organized by Charmo University
- Google classroom course/ organized by Charmo University.
- Bologna credit system workshop/ organized by Charmo University.

Participation in academic activities

- Attendance at BACELL 2013 meeting in Newcastle University, UK.
- Poster presentation at Society of General Microbiology (SGM) Autumn conference 2013 in university of Sussex, UK.
- Oral presentation at BACELL 2015 meeting in Amsterdam, Holland.
- Attendance at 1st International Conference of Natural Sciences (ICNS 2016)/ organized by Charmo University in Kurdistan Regional Government-IRAQ.
- Attendance at 2014 and 2015 bacteriology symposiums / organized by Centre for Bacterial Cell Biology (CBCB)/ Institute for Cells and Molecular Biosciences (ICaMB) /Faculty of Medical Sciences (FMS)/Newcastle University, UK.
- Speaker in symposiums and international workshops about COVID-19 pandemic at Charmo University (2020).

Appreciation letters for good duty performance:

- **Four** appreciations were provided by Ministry of Higher Education and Scientific Research of Kurdistan Regional government-IRAQ.
- **Four** appreciations were provided by Foundation of technical Education Sulaimani (currently Sulaimani Polytechnic University).
- **Five** appreciations were provided by Chamchamal Technical Institute.
- **Ten** appreciations were provided by Charmo University.

Language Proficiency

- Kurdish is my mother language.
- I am very good in all the skills (Reading, written, listening and speaking) of academic English.

Possession of English language certificates

- Academic English for university study certificate in June 2012 that was awarded by INTO language center, Newcastle University, UK (Score: 65 = 7.0 IELTS = C1 CEFR).
- Password English test in October 2011 that was done at Lano center, Erbil, KRG-IRAQ (Score: 5.5 = B2 CEFR).
- Preliminary English Test (PET) in July 2011, it is one of the English for Speakers of Other Languages (ESOL) examinations, which are organised by University of Cambridge, UK (Mark: 79/100 (pass) = Entry 3 = B1 CEFR).
- English Efficiency Certificate in August 2005 that was awarded by College of Education, Salahaddin University, Erbil, KRG-IRAQ (Result: pass).
- A private certificate of good performance and motivation during academic English for university study course (June 2012). This certificate was awarded by INTO language center, Newcastle University, UK.

Computer and technological Skills

- I am very good at the utilization of these computer programs: Office (Word, Powerpoint and Excel), SigmaPlot, Photoshop, ImageJ, Metamorph, Clone Manager, EndNote, Gen5 for immune assayetc.
- I am very good at using Google classroom, Google meeting and ZOOM meeting programs in face to face and online teaching processes.

Possession of computer skill certificates

I was awarded a Computer Efficiency Certificate by College of Education, Salahaddin University, Erbil, KRG-IRAQ in October 2005.

Voluntary activities

- Taking part in world antibiotic awareness week (WAAW), which is run by world health organization (WHO), via translation of awareness materials and TV interview.
- Preparation of viral transport medium (VTM) and supply Chamchamal health laboratory with VTM during COVID-19 pandemic.