Curriculum vitae (CV)

Personal details

Name: Dr. Rayan Mazin Faisal
Occupation: Assistant Professor college of sciences department of biology
Date of birth: 9th Dec. 1979
Marital status: Married
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Education

2012- 2019: Ph.D. in microbial genetics, Dept. of Biochemistry and Microbiology, Rutgers University, New Jersey, USA.

2006- Present: Faculty member at the dept. of microbiology, college of science, University of Mosul (Assistant Professor)

2002-2004: M.Sc. Biotechnology, college of education, University of Mosul.

1997-2001: B.Sc. Microbiology, college of science, University of Mosul

Ph.D. thesis title: Understanding the role of dibenzofuran 4,4a dioxygenase reveals a silent pathway for biphenyl degradation in *Sphingomonas wittichii* RW1 and helps in engineering dioxin degrading strains. (Advisor: Gerben J. Zylstra)

M.Sc.thesis title : Determination of transposition property in antibiotic resistance genes of *Pseudomonas aeruginosa* and the *In Vivo* and *In Vitro* effect of some chemical mutagens on antibiotic resistance genes. (Advisor: Khalid D. Ahmed)

Teaching Experience

- Molecular genetics (Ph.D.)
- Microbial genetics (M.Sc.)
- Microbial biotechnology (M.Sc.)
- Molecular biology and microbial genetics
- Medical microbiology

- Water microbiology
- Soil microbiology
- Biochemistry lab (New Jersey, USA)

Participation in posters

1- "Characterization of a silent pathway for biphenyl degradation in *Sphingomonas wittichii* RW1" **2017 SIMB meeting**, Denver, Colorado, USA.

2- *"Sphingomonas wittichii* RW1 Dibenzofuran 4,4a Angular Dioxygenase Attacks Biphenyl at a Lateral Position" **2017 Symposium: Microbiology at Rutgers University** *Cultivating Traditions, Current Strength and Future Frontiers.* New Brunswick, NJ, USA.

3- *"Sphingomonas wittichii* RW1 Dibenzofuran 4,4a Angular Dioxygenase Attacks Biphenyl at a Lateral Position" **ASM microbe 2016**, Boston, MA, USA.

4- "Characterization of the intermediates formed by the angular attack of Dibenzofuran 4,4a-dioxygenase on Dibenzofuran and Dibenzodioxin" **2015 Symposium: Microbiology at Rutgers University** *Cultivating Traditions, Current Strength and Future Frontiers.* New Brunswick, NJ, USA.

International workshops attended

1- Assemble, annotate and analyze your own genome using PATRIC, the all bacterial bioinformatics resource center, ASM microbe 2016 international conference, Boston/ Massachusetts, USA, June 16th , 2016.

2- Real time RT-qPCR fundamentals workshop, SEBS Core Facility at the School of Environmental and Biological Sciences, Rutgers, the state university of New Jersey, USA, 16-18 June, 2015.

3- Chemical and Biological Security Training for Iraqi Nationals, Charleston, South Carolina, USA, July 25-27, 2018.

4- Lab Design Workshop for Iraqi Nationals, Chicago, Illinois, USA, October 19-21, 2018.

International Awards

1- ASM student and postdoctoral travel award, ASM microbe 2016, Boston-Massachusetts, USA, 16-20 June, 2016.
2- Stephen M. Cuskey Travel Award for 2016, Department of Biochemistry and microbiology, Rutgers, the state university of New Jersey, USA.
3- Douglas Eveleigh Travel Award for 2017, Department of Biochemistry and microbiology, Rutgers, The State University of New Jersey, USA.
4- SIMB 2017 Carol D. Litchfield best poster presentation in environmental microbiology award.
5- Douglas Eveleigh and James Macmillian endowed fellowships for microbial biology graduate studies 2017- 2018.

Publications

1- Abdulrazzaq, R., & Faisal, R. (2022). Efficiency of Hichrome Enterococcus faecium Agar in the Isolation of Enterococcus spp. and other Associated Bacterial Genera from Water. Journal of Life and Bio Sciences Research , 3(01), 01 - 06. https://doi.org/10.38094/jlbsr30151

2 -Faisal, R.M. (2013) The Application of the Mutagen Nitrous Acid to Improve the Free Living Nitrogen Fixation Ability of *Azotobacter spp*. Rafidain journal of science, 24(1E):44-54.

3 - Faisal, R. M. (2012) Detection of Sex Pheromone Production in Isolates of *Enterococcus faecalis* that Increases Conjugation Frequency. Rafidain journal of science, 23(3E):50-57.

4 -Faisal, R.M. and Al-hiali, F.M. (2011) Determining the cellulase gene location of some soil bacteria and studying the possibility to increase cellulase degradation by plasmid DNA amplification technique , Iraqi Journal of Biotechnology, 11(2):151-162.

5 - Faisal,R.M.(2010) Application of Low pH as a Curing Agent of Plasmid DNA in *Streptomyces* as Compared With Other Agents , Rafidain journal of science,21(1):40-53.

6 - Faisal,R.M.;Ahmed,K.D. and Al-sammak,E.G.(2009)Determining the location of some antibiotic coding genes in Streptomyces spp., Rafidain journal of science,20(1):11-22.

7 - Faisal,R.M.;Yassin,J.M. and Mustafa, D.N.(2009) Mutagenesis of Pseudomonas aeruginosa by nitrous acid ,1st conference of biology dept., University of Mosul, Iraq.

8 -Ahmed,K.D. and Faisal,R.M. (2008)Determination of transposition property in some antibiotic resistance genes of Pseudomonas aeruginosa ,J. of Education and Science ,21(2):15-26.