



RCSI

Name:	Edwina Brennan
Title:	Science Lecturer/MCP Deputy Director
Start date with RCSI Bahrain:	June 2011
Department:	Language and Cultural Department

Third Level Education / Academic Awards:

Date Awarded	Awarding Institution:	Qualification Title:
November 2005	Institute of Technology Carlow	B.Sc (Hons)
November 2010	Institute of Technology Carlow	PhD
November 2016	RCSI Bahrain	Postgraduate Diploma in Health Professions Education

Previous Academic Positions:

Date (To - From):	Institution:	Position:
November 2009 To December 2009	RCSI Bahrain	Part Time Lecturer
April 2006 To March 2009	Institute of Technology Carlow	Tutor
September 2006 To May 2008	Institute of Technology Carlow	Part Time Lecturer

Teaching Experience:

Edwina Brennan graduated with a BSc in Industrial Biology with Bioinformatics in 2005 from the Institute of Technology Carlow Ireland. Following this she undertook her PhD in Biotechnology, Molecular and Environmental Science also at the Institute of Technology Carlow. Her PhD involved site-directed mutagenesis studies, protein purification and kinetic analysis, and the development of a molecular tool to allow the proliferation of bacterial genes for bioremediation. In addition to conducting her PhD, Edwina also worked as a tutor to first year undergraduate students and part-time lecture to third year diploma students. In December 2009, Edwina moved to the Kingdom of Bahrain and obtained a part-time lecturing position in RCSI in biochemistry. In June 2011, Edwina joined RCSI-Bahrain in a full-time capacity as a science lecturer for the Medical Commencement Programme (MCP) where she was a lecturer and coordinator for the MCP science modules; physics, chemistry and biology. In 2015, Edwina was promoted to MCP deputy director.

Current Research and Scholarly Activities:

- 5-ALA: *in vitro* effect as a photosensitising agent for the antimicrobial photodynamic inactivation of opportunistic fungi
- Describing Thoughts Can Tell Us Lots : A Pilot Study into How English Language Learners Solve Problems in Science

Summary of Publication History: (Last 10 years only)

Publication Details:	Journal Impact Factor:
Brennan, E., McGuinness, M. and Dowling, D.N. (2009). Bioinformatic analysis and <i>in vitro</i> site directed mutagenesis of conserved amino acids of BphKLB400, a specific bacterial glutathione transferase. <i>International Biodeterioration & Biodegradation</i> . 63: 928-932	2.429
McGuinness, M.C., Mazurkiewicz, V., Brennan, E. and Dowling, D.N. (2007) Dechlorination of herbicides and pesticides by a specific bacterial	2.168



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glutathione S-transferase, BphKLB400: Potential for bioremediation. Engineering in Life Sciences. 7: 611-615.	
McGuinness, M., Brennan, E. and Dowling, D. (2007). A specific bacterial glutathione-S-transferase, BphKLB400 from Burkholderia LB400, involved in detoxification of chlorinated organic pesticides: Potential for bioremediation. Proceeding of SOWETOX 2007, Barcelona, Spain. Nov 2007. ISBN: 978-84-475-3247-6.	
Brennan, E., McGuinness, M., and Dowling, D. (2007). Effect of mutation of conserved amino acids in BphKLB400, a bacterial GST, on enzyme activity. Proceeding of 4th International Symposium of Biosorption and Bioremediation. Prague, Czech Republic, August, 2007. ISBN: 978-80-7080-026-3.	
Brennan, E., McGuinness, M., and Dowling, D. (2007). In silico site-directed mutagenesis on the predicted 3D structure of BphKLB400. Proceeding of ESAI Environ 2007	

Recent Presentations:

Malalla M, Hubail N, Brennan E, Henari F. (2016). Characterization and antimicrobial activity of silver nanoparticles synthesized by green technology. KHUH \ RCSI International Research Conference. Poster presentation
Verhagen K, Zameer S, Brennan E. (2016). 5-ALA: in vitro effects as photosensitising agents for antimicrobial photodynamic inactivation of opportunistic fungi. KHUH \ RCSI International Research Conference. Poster presentation
Eltayeb S, Abozenah M, Hayes A, Brennan E, Mansour N. (2015). Can students with a minimal linguistic threshold think at higher cognitive levels when solving scientific tasks? RCSI Bahrain Research Conference. Poster presentation
Ismael A, Brennan E, Cassidy S. (2015). Solubility and anti-fungal potential of curcumin against Candida albicans and Cryptococcus neoformans. RCSI Bahrain Research Conference. Oral presentation
Toorani, MQ, Alwedaie, SM2, Brennan, E. (2015). 5-ALA: in vitro effects as a photosensitising agent for photodynamic inactivation of opportunistic fungi. KHUH Research conference. Oral presentation
Brennan E. (2015). 5-ALA: in vitro effects as a photosensitising agent for photodynamic inactivation of opportunistic fungi. KHUH Research conference. Oral presentation
Hayes A, Brennan E, Mansour N. (2014). Describing Thoughts Can Tell Us Lots: A Pilot Study into How English Language Learners Solve Problems in Science. RCSI Bahrain Research Conference. Poster presentation