

Fady R. Mohareb

Professor of Bioinformatics - Head of the Bioinformatics Group - Applied Bioinformatics MSc Course Director. School of Water, Energy and Environment, Cranfield University, College Road, Bedford MK43 0AL, United Kingdom.

Webpage: <https://www.cranfield.ac.uk/people/dr-fady-mohareb-1348215>

Email: f.mohareb@cranfield.ac.uk

Github: <https://github.com/FadyMohareb>

Summary: Academic and Principal Investigator with extensive technical skill and detailed knowledge across a broad range of genome analysis, Food Science, and Artificial Intelligence techniques. Proven track record in the management and delivery of large-scale genomics, machine learning and AI international projects. Prof Mohareb has secured over £6M of combined research income, which includes £2.5M of research grants as PI, and £1.4M through industrial funding.

Education

2005-2009 Cranfield University, College Road, Cranfield, MK43 0AL

Degree: PhD in Bioinformatics and Systems Biology.

2004-2005 Cranfield University, College Road, Cranfield, MK43 0AL

Degree: MSc Bioinformatics, Cranfield University.

1997-2002 Cairo University, Giza, 12411, Egypt.

Degree: BSc (Hons.) in Pharmaceutical Sciences.

Professional Experience:

2022-Present **Professor of Bioinformatics** at Cranfield University: More than 17 years of experience in Bioinformatics and an established track record in the field as Principal Investigator. Secured a total of £4.89M of combined research income; including £1.5M of research grants won as PI, £2.58M as Col and £1.4M through direct and industrial funding.

2019-Present **Head of Bioinformatics** at Cranfield University: Leading the group which includes three academics, Two PDRAs, and 10 PhD students. **Course Director**

2011-Present **for the Applied Bioinformatics MSc** at Cranfield University. More than 17 years teaching experience, a total of ~1,200 lecturing hours and ~120 supervised MSc students.

Career History:

2019-2022 Reader in in Bioinformatics, Cranfield University, UK

2016-2019 Senior Lecturer in Bioinformatics, Cranfield University, UK

2011-2016 Lecturer in Bioinformatics, Cranfield University, UK

2009-2011 Research Fellow, Cranfield Health - Cranfield University.

2002-2004 Research Pharmacist, Vacsera Biopharmaceuticals Co., Cairo, Egypt.

Selected Publications:

- Lytou A, Saxton L, ..., **F Mohareb**, George-John Nychas (2024). Contribution of data acquired from spectroscopic, genomic and microbiological analyses to enhance mussels' quality assessment. *Food Research International*, 197(Pt 1)
- Zuo Y, ... & **Mohareb F** (2022) De novo genome assembly and functional annotation for *Fusarium langsethiae*, *BMC Genomics*, 23 (1) Article No. 158.
- Spyrelli ED, Ozcan O, **Mohareb F**, Panagou EZ & Nychas G-JE. (2021). Spoilage assessment of chicken breast fillets by means of fourier transform infrared spectroscopy and multispectral image analysis. *Current Research in Food Science*, 4
- Fengou L-C, Lianou A, Tsakanikas P, **Mohareb F** & Nychas G-JE. (2021). Detection of Meat Adulteration Using Spectroscopy-Based Sensors. *Foods*, 10(4)
- Estelles-Lopez L, Ropodi A, Pavlidis D, Fotopoulou J, Gkousari C, (2017). An automated ranking platform for machine learning regression models for meat spoilage prediction using multi-spectral imaging and metabolic profiling. *Food Research International*, 99(Pt 1)
- Spyrelli ED, Ozcan O, **Mohareb F**, Panagou EZ & Nychas GJE (2021) Spoilage assessment of chicken breast fillets by means of Fourier transform Infrared spectroscopy and Multispectral Image Analysis, *Current Research in Food Science*, 4 121-131.
- Mohareb F**, Papadopoulou O, Panagou E, Nychas G-J & Bessant C. (2016). Ensemble-based support vector machine classifiers as an efficient tool for quality assessment of beef fillets from electronic nose data. *Analytical Methods*, 8(18)
- Mohareb F**, Iriondo M, Doulgeraki AI, Van Hoek A, Aarts H, (2015). Identification of meat spoilage gene biomarkers in *Pseudomonas putida* using gene profiling. *Food Control*, 57
- Mohareb F**, Iriondo M, *et al.* (2015) Identification of meat spoilage gene biomarkers in *Pseudomonas putida* using gene profiling, *Food Control*, 57 (Nov) 152-160.