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Bassam Elgamoudi, PhD https://orcid.org/0000-0001-6372-5197

Researcher ID: K-6224-2018

# WORK HISTORY

Snr Research Fellow	Jan 2024 – Present
Mucosal Immunology Research Group, Institute	for Biomedicine and
Glycomics, Griffith University, QLD 4222, Aust	tralia.
Scientific Officer	Mar 2022 - Dec 2023
Technical Partners (Health) (TPH), Gold Coast C	Campus, Griffith University,
QLD 4222, Australia	
Peer Review Working Committee member	Jan 2022-Dec 2023
National Health and Medical Research Council (	NHMRC)
Research Fellow/ Lecturer	Jun 2016 – July 2023
Microbiology, Host-Pathogen Interactions Research Group, Institute for	
Glycomics, Griffith University, QLD 4222, Aust	tralia
PhD candidate, Microbial Genetics	Jan 2011 - Dec 2015
University of Leicester, United Kingdom	
Research Assistant	Jan 2003 - Dec 2011
Libyan Petroleum Institute (LPI). Tripoli-Libya	

### SKILLS

- Extensive knowledge of molecular microbiology and infectious diseases. -Single-cell spatial multi-omics (transcriptomics and proteomics), Molecular cloning, site-specific mutagenesis, RT-PCR, cell culture and animal experimentation.

-Extensive knowledge of environmental microbiology (i.e. Biodegradation, Biodesulfurization and Biosurfactants productions) (8+ years' experience)

-Isothermal titration calorimetry (ITC) and surface plasmon resonance (SPR) as tools for drug discovery (protein-protein interactions and protein-ligand interactions).

-Microscopic techniques include an atomic force microscope (AFM), SEM, confocal laser scan microscope (CLSM), and image processing and analysis.

- Bioinformatics and biostatistics (e.g., R, Galaxy, prism).

-10+ years' experience in PC1 and PC2 laboratories.

-Operate and maintain laboratory equipment and provide technical assistance to administration, faculty, and students.

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### **EDUCATION**

PhD degree, Microbial Genetics University of Leicester, United Kingdom BSc Degree, Department of Zoology, Faculty of Science Tripoli University, Tripoli - Libya, Tripoli

## TEACHING AND SUPERVISORY SKILLS

-Microbiology course for year 1 students, Medicine School, Griffith University, Australia, from 2021 to 2023.

- Genetics instructor (Laboratory classes)-BSc undergraduate Year 1 and 2, Leicester University, UK.

Undergraduate and work experience students: From 2017 to 2021, I supervised over 12 students at Griffith University, Australia.

- Supervision and co-supervision of Master and PhD students 2020-2023, Griffith University, Australia.

### PEER REVIEW EXPERIENCE

**Review for Journals 2017-2023**: Gut Microbes (IF 9), Scientific Reports Nature (IF 4.6), International Journal of Molecular Sciences (IF6), Microbiological Research (IF5), Microbial Genomics (IF 4.8), Antibiotics (IF5), and pharmaceutics (IF6).

**Review Editor** for Molecular Bacterial Pathogenesis, Frontiers in Cellular and Infection Microbiology (2023).

Grant Organizations (committee member) 2022-2023: National Health and Medical Research Council (NHMRC).

# **GRANT WRITER**

I specialise in writing and editing proposals in response to a diverse range of funding opportunities. My skills encompass grant proposal writing, as well as proofreading and editing both technical and non-technical documents, manuscripts, and presentations.

# LANGUAGE

English- Proficient Arabic- Proficient

# LIST OF PUBLICATIONS

AM Alsonosi, KM Ibrahim, <u>Bassam A. Elgamoudi</u>, MB Agena, SJ Forsythe. The Potential Role of rpoS and ompR in the Acid Resistance and Desiccation Tolerance of Cronobacter malonaticus Strains. *Microbiology Research* (2025).

Feb 2016

Jun 1999

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KM Ibrahim, AM Alsonosi, MB Agena, <u>Bassam A. Elgamoudi</u>, SJ Forsythe. Multiplex Determination of K-Antigen and Colanic Acid Capsule Variants of Cronobacter sakazakii. *Genes* (2024).

LHM Le, <u>Bassam A. Elgamoudi</u>, N Colon, A Cramond, F Poly, L Ying, V Korolik. Campylobacter jejuni extracellular vesicles harboring cytolethal distending toxin bind host cell glycans and induce cell cycle arrest in host cells. *Microbiology Spectrum* (2024).

**Bassam A. Elgamoudi**, Victoria Korolik. A guideline for assessment and characterization of bacterial biofilm formation in the presence of inhibitory compounds. *Bio-protocol* (2023).

Taha, **Bassam A. Elgamoudi**., Andrianova, E. P., Haselhorst, T., Day, C. J., Hartley-Tassell, L. E., & Korolik, V. Diverse Sensory Repertoire of Paralogous Chemoreceptors Tlp2, Tlp3, and Tlp4 in Campylobacter jejuni. *Microbiology Spectrum* (2022).

**Bassam A. Elgamoudi**, KS Starr, Victoria Korolik. Extracellular c-di-GMP Plays a Role in Biofilm Formation and Dispersion of *Campylobacter jejuni*. *Microorganisms* (2022). **Bassam A. Elgamoudi**, Victoria Korolik. A Review of the Advantages,

Disadvantages and Limitations of Chemotaxis Assays for Campylobacter spp. *IJMS* (2022). **Bassam A. Elgamoudi**, Victoria Korolik. Campylobacter Biofilms: Potential of Natural Compounds to Disrupt Campylobacter jejuni Transmission. *IJMS* (2021).

Kevin S. Johnson, <u>Bassam Elgamoudi</u>, Freda E.-C. Jen, Christopher Day, Emily Goers Sweeneyc, Megan L. Pryce, Karen Guillemin, Thomas Haselhorst, Victoria Korolik, Karen M. Ottemann. The immunomodulatory dCache chemoreceptor TlpA of Helicobacter pylori binds multiple attractant and antagonistic ligands via distinct sites. *mBio* (2021).

**Bassam A. Elgamoudi**, Ekaterina P. Andrianova, Lucy K. Shewell, Christopher J. Day, Rebecca M. King, Taha, Hossinur Rahman, Lauren E. Hartley-Tassell, Igor B. Zhulin, and Victoria Korolik. The *Campylobacter jejuni* chemoreceptor Tlp10 has a bimodal ligand-binding domain and specificity for multiple classes of chemoeffectors. *Science Signaling* (2021).

**Bassam A. Elgamoudi**, Taha, and Victoria Korolik. "Inhibition of Campylobacter jejuni biofilm formation by D-amino acids." *Antibiotics* (2020).

**Bassam A. Elgamoudi**, Ketley, MJ. Lighting up my life: a LOV-based fluorescent reporter for Campylobacter jejuni. *Research in microbiology* (2018).

**Bassam A. Elgamoudi**, Ketley, MJ., and V Korolik. New approach to distinguishing chemoattractants, chemorepellents and catabolised chemoeffectors for Campylobacter jejuni. *Journal of microbiological methods* (2018).

Ammar Al-Kass, <u>Bassam A. Elgamoudi</u>, Christopher Day and V Korolik. Investigating the Role of *Campylobacter jejuni* Nickel-Binding Protein NikZ in Chemosensing. *Ann Clin Med Microbiol* (2018).

**Bassam A. Elgamou**di., Ketley, MJ., Determination of the chemotactic behaviour of *Campylobacter jejuni* by using the  $\mu$ -Slide Chemotaxis. In *User protocols* (2016).

Etoumi, A., El Musrati, I., <u>Bassam A. Elgamoudi</u>., El Behlil, M. The reduction of wax precipitation in waxy crude oils by Pseudomonas species. *Journal of industrial microbiology & biotechnology* (2008).

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### **MEETINGS AND CONFERENCES**

## 2025

**Poster:** Role of V. cholerae biofilm formation in Glycan-Host interaction. Biofilms 11, Cardiff, Uk.

# 2022

**Poster:** Potential role of extracellular c-di-GMP in the biofilm formation and motility of Campylobacter jejuni. 21st Campylobacter, Helicobacter & Related Organisms (CHRO), Yangzhou, China.

**Poster:** Comparison of surface plasmon resonance (SPR), and isothermal titration calorimetry (ITC) for assessment of ligand binding by chemoreceptor protein. BacPath. Brisbane, Australia.

## 2020

**Poster:** Alanine racemase as target to inhibit the Campylobacter jejuni biofilm formation by L and D-amino acids. Biofilms 9 conference, Karlsruhe, Germany

## 2019

**Poster:** The role of Tlp10 chemosensor of C. jejuni 11168-O in adherence to host cells in vitro and in vivo. CHRO 2019 - the 20th Campylobacter, Helicobacter and Related Microorganisms conference, Belfast, UK.

**Poster:** Characterization of the Paralog Family of Chemoreceptors in Campylobacter jejuni: CcmL (Tlp3), Tlp2, and Tlp4. CHRO 2019 - the 20th Campylobacter, Helicobacter and Related Microorganisms conference, Belfast, UK.

# 2018

**Poster:** A chemoreceptor in Campylobacter jejuni responds to multiple classes of chemoeffectors. Australian Society for Microbiology Annual Scientific Meeting 2018. Australia.

### 2017

**Poster:** Development of a modified HAP assay for quantitative and qualitative analysis of Campylobacter jejuni chemotaxis. 18th Campylobacter, Helicobacter & Related Organisms (CHRO), France.

# 2015

**Oral presentation:** Effects of D-Tryptophan on Campylobacter jejuni biofilm formation. 18th Campylobacter, Helicobacter & Related Organisms (CHRO), Rotorua-New Zealand. **Poster:** Improved assays to determine the chemotactic behaviour of Campylobacter jejuni. 18th Campylobacter, Helicobacter & Related Organisms (CHRO), Rotorua-New Zealand. **Poster:** Determination of the cellular localisation of transducer-like proteins in Campylobacter jejuni using a fluorescent reporter (iLOV). 18th Campylobacter, Helicobacter & Related Organisms (CHRO), Rotorua-New Zealand.

# 2014

**Poster:** Effects of D-amino acids on Campylobacter jejuni biofilm formation. Biofilm 6, Austria. Poster: The Role of Methyl-accepting Chemotaxis Proteins (MCPs) in the dispersion of Campylobacter jejuni biofilm. Liverpool University.CampyUK.

**Poster:** Effect of c-di-GMP on biofilm formation and motility of Campylobacter jejuni. 5th ASM Conference on Cell-Cell Communication in Bacteria. San Antonio, Texas.

### 2013

**Poster:** The use of the fluorescent protein, iLOV, as a reporter in Campylobacter jejuni. University of Aberdeen, CHRO Conference.

### 2009

## Griffith University, QLD 4222, Australia

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**Oral presentation:** Rhamnolipids Surfactants Applications: Enhancement of Hydrocarbon Biodegradation and Heavy Metals Removal. International Conference on Plants and Environmental Pollution, Turkey.

## 2008

**Oral presentation:** Study the effect of bio-surfactants on contaminated soil by petroleum hydrocarbon, first international petroleum environmental conference and exhibition, Tripoli-Libya.

#### 2007

**Poster:** Tolerance of Pseudomonas aeruginosin biofilms against Quaternary-Ammonium Compounds (QACs) based Glutaraldehyde. 161st Meeting, Society for General Microbiology, Edinburgh University, Scotland.

**Oral presentation:** Microbial degradation of DBT by different bacteria species. 4th Biotechnology Conference and Exhibition. Libya.

**Oral presentation:** Effect of Quaternary-Ammonium Compounds (QACs) based Glutaraldehyde on

natural microflora. 10th international chemistry conference and exhibition in Africa (10 ICCA). Libya.

**Poster:** The reduction of wax precipitation in waxy crude oils through Pseudomonas species application. Second international conferences on environmental, industrial and applied microbiology. Spain.

# **AWARDS / GRANTS**

Travel Grant, Destination Gold Coast Future Bid Leaders Grant.	Oct <b>2019</b>
Best Student Poster Award, 18th Campylobacter, Helicobacter &	Related Organisms (CHRO),
Rotorua-New Zealand.	2015
Travel Grant, American Society for Microbiology (ASM).	2014
Travel Grant, Microbiology Society.	<b>2013</b> and <b>2015</b>

### **PROFESSIONAL SOCIETY**

American Society for Microbiology –ASM (Member). Society for Applied Microbiology- SfAM (Member).

# **RESEARCHER ID**

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