



## *Curriculum Vitae*

# Ismaeel Hussein Bozakouk

### CONTACT

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Date of Birth:  
March 16, 1974

**PhD in Microbiology,**  
Molecular Biology and Biotechnology.  
**Associate Professor**  
Microbiology Department  
Faculty of Science  
University of Benghazi  
Benghazi  
Libya

Jun 2007 – Jun 2011                      University of  
Sheffield, UK

**PhD. Degree** in Microbiology, Molecular Biology  
and Biotechnology Department, University of  
Sheffield, Sheffield, UK.  
PhD. Title: Characterization of the Effect of  
Mammalian Serum on *Staphylococcus aureus*.

Sep 2006 – May 2007                      Sheffield Hallam  
University, UK

**Language Certificate in English** Teaching  
English to Speakers of Other  
Languages (TESOL), Sheffield Hallam University,  
Sheffield, UK

Sep 1999 – Feb 2002                      University of  
Garyounis, Libya

**MSc. Degree** in Microbiology, Botany  
Department, Faculty of Science, University of  
Garyounis, Benghazi, Libya.

MSc. Title: Acid hydrolysis of *Phragmites australis*  
powder for production of single cell protein by  
*Candida utilis*.

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### JOB POSITIONS and WORK EXPERIENCE

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**Libyan British University** Oct. 2020 – Up to date: **Head of Quality Assurance Office and Performance Evaluation** at the Libyan British University, Benghazi, Libya, (*Private University*).

**University of Benghazi**

Feb. 2019 – Jan 2022: **Academic membership** of the Benghazi University committee for the scientific university publications.

**Libyan University for Modern and Technical Sciences**

Oct. 2018 – Oct. 2019: **Vice Dean of Scientific Affairs**, Libyan University for Modern and Technical Sciences. (*Private University*).

**University of Benghazi**

Sep. 2015 –Up to date: **Teaching member Staff at Microbiology Department**, Faculty of Science, University of Benghazi, Benghazi, Libya.

**Al-Razi medical laboratory**

May 2015 – Up to date: **Chief Scientists and Head of Microbiology unit at AlRazi medical laboratory**, Benghazi, Libya.

**University of Benghazi**

Feb. 2015 – Oct 2015: **Head of Postgraduate office at Botany department**, Faculty of Science, University of Benghazi, Benghazi, Libya.

**University of Benghazi**

Sep. 2013 – Feb 2015: **Head of Quality assurance at Botany department**, Faculty of Science, University of Benghazi, Benghazi, Libya.

**University of Benghazi** Feb 2015: **Assistant Professor in Microbiology at Botany Department**, Faculty of Science, University of Benghazi, Benghazi, Libya

**University of Benghazi**

Jan 2012 –Feb 2015: **Teaching member Staff at Botany Department**, Faculty of Science, University of Benghazi, Benghazi, Libya.

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**ACADEMIC EXPERIENCE**

**Teaching courses proficiency:**

**Under graduate students:**

Introductory to Microbiology, Diagnostic Microbiology , Infectious Diseases, Molecular Genetics, Medical Microbiology, Pharmaceutical Microbiology, Microbial Physiology, and Practical Microbiology.

**Postgraduate students:**

Advance applied Microbiology, Host-Microbe interaction and Bacterial taxonomy

**Duties:**

- Department demonstrating (team)
- Lecturing of students and supervising research projects.
- Setting questions and marking student examinations.
- Laboratory demonstration
- Supervision of undergraduate research projects.

**Acquired skills:**

- Developing of task scheduling practices.
- People management skills
- Experimental designing
- Supervisory experience

## RESEARCH EXPERIENCE


April 2015 – Up to date: **Researcher** and Head of Medical Microbiology Unit at ALRazi medical Laboratory, Benghazi, Libya.

Jun 2006 – Jun 2011 **PhD. Degree** in Microbiology, Molecular Biology and Biotechnology Department, University of Sheffield, Sheffield, UK.

**Technical proficiency:****Medical Microbiology Laboratory:**

- Supervisor and Chief Scientist of the Diagnostic Microbiology Unit, daily supervision for bacterial cultures identification and decision-making on outcome strategies.
- Leader trainer for new technicians in the diagnostic microbiology laboratory.
- Prevention and Infection control skills (evaluation the effect of active components).
- Determining the effectiveness of the antibiotics on pathogenic bacteria using quality control standardization.

**Molecular Biology and Biotechnology**

- Extraction of chromosomal episomal DNA,
- Transposon mutagenesis,
- Polymerase Chain Reaction (PCR),
- Phage techniques: Phage titration and transduction,  *LacZ*-mediated screening.
- Gel electrophoresis
- Separating proteins using SDS polyacrylamide gel electrophoresis

**Immunological techniques:** Immunoprecipitation, *ELISA*.

**Fractionation and separation of bacterial compartments:**

Bacterial cell wall extraction, Wall teichoic acid (WTA) preparation

**Light and electron microscopy:**

Electron microscope: TEM and SEM samples preparations

**Biochemical techniques:** Thin layer chromatography of biochemical extracts.

**Softwares:**

Bioinformatics: Vector NTI, Geneious, Clone Mgr Suite 7

Statistics: SigmaPlot 11.0, SPSS, Microsoft Office Excel

Generic editing and graphic (word, power point, ChemDraw Std12.0).

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## Academic and Scientific Activities

2021 **Chairman of the Preparatory Committee of Corona Pandemic Conference: The Fallout and Ways of Confrontation**, Benghazi Libya 30-31/Jan/ 2021, <https://cpcbl.uob.edu.ly/>

2010 **Coordinator of the Exhibitions and Workshops**. The 4<sup>th</sup> Scientific Symposium for Libyan Student in the UK.

2008 – 2010 **Associate member**. Society of General Microbiology (SGM).

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## Supervising Master of Science students

**Subjects:**

- Detection and identification of Hepatitis B, C and HIV in Benghazi City, Libya. *Published*
- Isolation and identification of pathogenic bacteria isolated from burn wounds at AlGala hospital. *Published*
- Study the relation between human complement component C3&C4 deficiency and C - reactive protein (CRP) as an indicator to increase microbial infection. *Published*
- Isolation and identification of pathogenic bacteria from fast food at Benghazi city resultants. *Published*
- Screening for the nosocomial infection at Al Kufra, Libya teaching hospital. *Published*
- Validation of Procalcetonin and C - reactive protein as an indicator for bacterial infection at Intensive Care Unit at Children Hospital, Benghazi, Libya. *Currently*
- Prevalence of bacterial UTIs in diabetic and non-diabetic patients and evaluation the antimicrobial effect of thymus plants extract on the isolated multidrug resistant pathogens. *Currently*
- Evaluation of pathogenic bacterial that contaminating the local market fermented milk. *Currently*
- Evaluation of pathogenic bacteria that contaminating of the fresh juices collected from local shops. *Currently*
- Evaluation of pathogenic bacteria that contaminating mincemeat collected from different butcher *Currently*

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## PUBLICATIONS

### Papers

Entesar S. Elmanefi, Ismaeel H. Bozakouk, Farag A. Bleiblo and Mohamed M. Bumadian\* (2021) Bacterial Profile of Urinary Tract Infection and Antimicrobial Susceptibility Patterns among Pregnant Women at the Benghazi Medical Centre, Benghazi, Libya. *The scientific Journal of University of Benghazi*, 34 (2); 201 – 205.

Agag, S. A.; I. H. Bozakouk\*; I. I. Abdalla; M. M. Bumadian; A. M. Bleiblo and I. R. Kean (2020) Bacterial contamination of fast food shawirma sandwiches in local restaurants in Ben-ghazi city, Libya. *Libyan Journal of Science & Technology* 11(2): 104 – 109.

Shaltami, O. R.; I. H. Bozakouk; R. M. Al-Sefat; F. F. Fares; F. M. EL Oshebi; N. M. Elshelmani and M Arfaatabar (2020) Hydrochemical and Microbiological Assessment of Surface Water: A Case Study of the Al Dabosia and Al Hufara Springs, Al Jabal Al Akhdar, NE Libya. The Libyan Conference on Chemistry and Its Applications (LCCA 2019) (7 – 9 September, 2019), 1(2): 98- 101.

Almabrouk, M. A. Abdalla, I. I., Bumedian, M. M., Agouri, S. R. and Bozakouk\* I. H. (2018) Analysis of the relationship between human complement components C3 & C4 deficiency and C- reactive protein levels as an indicator of the increase of microbial infections. *Libyan Journal of Science & Technology*, 8 (1): 40 – 44.

Bozakouk\* I. H., Abdalla, I. I., Al Orify, K. S., Bumedian, M. M. and Bleiblo, F. (2017) The prevalence of urinary tract infections (UTIs) in the pediatric hospital of Benghazi city, Libya. *Science & its applications* 5(2): 70-73.

IL Fergani, A. H. I, and Bozakouk\* I. H. (2016) Detection and Identification of Hepatitis B, C and HIV in Benghazi city, Libya *Int.J.Curr.Microbiol.App.Sci.*5(10): 330-341

Alshalmani, S. K., N. H. Zobiand I. H Bozakouk (2014) Antibacterial activity of Libyan seaweed extracts. *Int. J. of Pham.Sci and Res.* 5(12): 5425-5429.

Bozakouk\*, I. H., N. M. El Hassi, N. El Megrab, M. Bumedian, A. A. El Fakhri, and F. Bleiblo (2014) Community-associated Staphylococcus aureus infections among children at the paediatric hospital in Benghazi city/ Libya (2008 - 2013). *Int.J.Curr.Microbiol.App.Sci* 3(5): 634-639.

Bozakouk\*, I. H., J. Garcia-Lara, and S. J. Foster (2013). Imaging of *Staphylococcus aureus* killing using naive rabbit serum. *Journal of Biotechnology & Biomaterials/OMICS Group*. (3):3, 114

Bumadian M. M, H. H. Almansury, I. H. Bozakouk, Y. F. Lawgali and F. A. Bleiblo (2013) Detection and enumeration of coliform bacteria in drinking water at hospital of Benghazi/Libya. *Journal of Experimental Biology and Agricultural Sciences*. 1: 436 - 440.

### **Posters**

Bozakouk, I. H., J. Garcia-Lara, and S. J. Foster (2014) Imaging of *Staphylococcus aureus* killing using Naïve Rabbit Serum. 16th International Symposium on Staphylococci and Staphylococcal Infections (ISSSI) 26<sup>th</sup> - 29<sup>th</sup> of August 2014.

Bozakouk, I. H., J. Garcia-Lara, R. Verstraten, M. Masalha and S. J. Foster (2010). A novel potent staphylocidal component in mammalian serum. 14th International Symposium on Staphylococci and Staphylococcal Infections (ISSSI) 6<sup>th</sup> - 9<sup>th</sup> of September 2010.

### **Oral presentation**

Bozakouk, I. H. and Khawla al arify (2016) a comparison study on Urinary Tract Infection (UTI) between Adults and Children in Benghazi City, Libya. The 1<sup>st</sup> scientific meeting of medical technology, Qumins, Libya.

Bozakouk, I. H. (2011). A novel potent staphylocidal mechanism in mammalian serum. The 4<sup>th</sup> Scientific symposium for Libyan Student in the UK.

Bozakouk, I. H. (2003). Single cell Protein production. The 2<sup>nd</sup> scientific symposium of the Biotechnology, Omar El Mochtar University, El Bayda, Libya.

### **References**

#### **Prof. Simon J. Foster**

Director of the Krebs Institute  
Department of Molecular Biology and Biotechnology  
University of Sheffield  
Firth Court, Western Bank  
Sheffield,  
S10 2TN  
UK

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Department of Paediatrics  
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**Prof. Salha Farag Ben Gwairef**

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