

## **Curriculum Vitae**



**Full Name:** Jawad Kadhum Muraih

**Sure Name:** Muraih

**Date and Place of Birth:** 1967 – Al-Muthanna, Samawah

**Nationality:** Iraqi

**Marital Status:** Married

**Number of Children:** Six

**Language Experienced:** English

**Email:** [jawad672005@yahoo.com](mailto:jawad672005@yahoo.com), [jmuraih@gmail.com](mailto:jmuraih@gmail.com)

### **Scientific Qualification:**

- **Ph.D.** (Biochemistry), University of Waterloo, Waterloo, Ontario, CANADA (2012)

***Thesis title:** Mode of Action of Daptomycin, a Lipopeptide antibiotic.*

- **M.Sc.** (Biochemistry), University of Baghdad, Baghdad, Iraq (1992)

***Thesis title:*** *Distribution of Acetylcholineesterase Isoenzymes in The Brain.*

- **B.Sc.** (Chemistry), Al-Mustansiriyah University, Baghdad, Iraq (1988)

### **Scientific Degrees:**

- Assistant Professor, 2014
- Lecturer, 2006
- Assistant Lecturer, 1993

### **Scientific and Management Experiences:**

- Dean Assistant of college of Science, University of Al-Muthana, 2005 – 2007.
- Professor of Biochemistry in the Department of Chemistry, College of Science, University of Al-Muthanna, Samawa, Al-Muthanna, Iraq from 2013 – date.
- Teaching assistant in the Department of Chemistry, University of Waterloo, Waterloo, ON, Canada from 2008 – 2012. I worked as a teaching assistant for various Biochemistry courses, which involved ensuring that proper laboratory procedures were followed, assessment of student work and provision of feedback.
- Lecturer in Department of Chemistry, College of Science, University of Al-Muthana, 2007.
- Lecturer in Department of Chemistry, College of Science,

University of Al-Qadisiyah, 2002 – 2007.

- Lecturer in the Department of Chemistry, College of Science, University of Baghdad from 1993 – 2002.
- Lecturer in Department of Chemistry, College of Education, University of Baghdad, 1995 – 1998.
- Lecturer in Department of Chemistry, College of Science, University of Alnahrain, 1995 – 1998.

### **Training Courses:**

1. Course in English Language, Renison College, University of Waterloo, Waterloo, Ontario, Canada, September 2007 to April 2008.
2. Course of Computation Methods for Determination of protein structures, Department of Chemistry, College of Science, University of Waterloo, 2008.
3. Course of Biological Membranes, Department of Chemistry, College of Science, University of Waterloo, 2010.
4. Course in Biochemistry, Department of Chemistry, College of Science, University of Baghdad, 1989 - 1990.
5. Workshop – Development of research in Biochemical Nanotechnology, Department of Chemistry, College of Science, University of Waterloo, 2011.

## Experiences:

- I. Under-graduate teaching: Proteins, Enzymes, Nucleic Acids, Carbohydrates, Lipids and Vitamins, Kinetics and Thermodynamic of Enzyme reactions, Protein Structures and Sequences and Nucleotide Sequences.
- II. Research interest topics: Mode of action of antibiotics, Enzyme isoenzymes characteristics, Receptors of antibiotics on biological membranes.
- III. Member of research group in the University of Waterloo, ON, Canada.

## Publications:

1. Robert Taylor, Bradley Scott, Jawad K. Muraih, TianHua Zhang, Scott Taylor, Michael Palmer, and Evan Mintzer (2015). Two successive calcium-dependent transitions mediate membrane binding and oligomerization of daptomycin and the related antibiotic A54145. *Journal of Biological Chemistry*, (In press).
2. Zhang, T., Muraih, J. K., MacCormick, B., Silverman, J., & Palmer, M. (2014). Daptomycin forms cation-and size-selective pores in model membranes. *Biochimica et Biophysica Acta (BBA)- Biomembranes*.
3. Zhang, T., Muraih, J. K., Tishbi, N., Herskowitz, J., Victor, R. L., Silverman, J., ... & Mintzer, E. (2014). Cardiolipin prevents membrane translocation and permeabilization by daptomycin. *Journal of Biological Chemistry*, 289(17), 11584-11591.

4. Zhang, T., Muraih, J. K., Mintzer, E., Tishbi, N., Desert, C., Silverman, J., ... & Palmer, M. (2013). Mutual inhibition through hybrid oligomer formation of daptomycin and the semisynthetic lipopeptide antibiotic CB-182,462. *Biochimica et Biophysica Acta (BBA)-Biomembranes*, 1828(2), 302-308.
5. Muraih, J. K., & Palmer, M. (2012). Estimation of the subunit stoichiometry of the membrane-associated daptomycin oligomer by FRET. *Biochimica et Biophysica Acta (BBA)-Biomembranes*, 1818(7), 1642-1647.
6. J.K. Muraih, J. Harris, S. Taylor, M. Palmer, Characterization of daptomycin oligomerization with perylene excimer fluorescence: stoichiometric binding of phosphatidylglycerol triggers oligomer formation, *Biochim. Biophys. Acta* 1818 (2012) 673–678.
7. J.K. Muraih, A. Pearson, J. Silverman, M. Palmer, Oligomerization of daptomycin on membranes, *Biochim. Biophys. Acta* 1808 (2011) 1154–1160.
8. Muraih, J.K., (2005). Purification and properties of Acetylcholinesterase and peptidase from sheep brain. *Journal Al-Qadisiyah* 10 (2005) page 207 – 218 .
9. Muraih, Jawad K. and Joda, Baker A. (2005). Hydrochemistry of shallow ground water in 30 km<sup>2</sup> area in Kerbala town. *Scientific Kerbala University Journal*.