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## CURRICULUM VITAE

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### EDUCATION

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- 1990 - 1995 An-Najah National University Nablus, Palestine  
*B.Sc. in Medical Laboratory Sciences*
- Consistently ranked in the top 5% of my class
- 1995 - 1999 An-Najah National University Nablus, Palestine  
*Master's of Science in Biology*
- 2000 -2003 Ph.D University of Kentucky, Lexington KY
- 2004 -2006 Ph.D University of Louisville, Louisville, KY

### EMPLOYMENT AND RESEACH EXPEIENCE

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- 2006 - Assistant professor at An-Najah National university/ college of Pharmacy. Nablus – Palestine
- 1995 - 1999 Rafidya Surgical Hospital Nablus, Palestine  
*Medical Lab Technician*
- 1995 - 1999 An-Najah National University Nablus, Palestine
- Research subject: Nosocomial infection and antibiotic resistance of Methicillin–Resistant *Staphylococcus aureus* (MRSA) in Palestine.  
The research included collection of patient's *S. aureus* isolates, screening for MRSA and MRSA typing based on antibiotic resistance and arbitrary-primed PCR.
- 1999 - 2000 Centers for Disease Control and Prevention Atlanta, GA  
*US Government fellowship award recipient*
- Research subject: Tetracycline and Minocycline antibiotic resistance genes in *Staphylococcus aureus* clinical isolates.
- 2000 – 2006 Ph.D.
- Research subject: Modulation of host cell apoptosis by *Legionella pneumophila*.  
The research included studying caspase-3 activation and expression of apoptosis related genes in infected macrophages and the role of NFκB in this process. Implemented experiments included, molecular genetics, confocal and electronic microscopy, and intracellular bacterial growth kinetics of *L. pneumophila*

PATENTS AND PUBLICATIONS

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Molmeret M, Zink SD, Han L, **Abu-Zant A**, Asari R, Bitar DM, Abu Kwaik Y. Activation of caspase-3 by the Dot/Icm virulence system is essential for arrested biogenesis of the *Legionella*-containing phagosome. *Cell Microbiol.* 2004 Jan; 6(1): 33-48.

**Alaeddin Abu-Zant**<sup>1,2</sup>, Marina Santic<sup>2</sup>, Jürgen Helbig<sup>3</sup>, and Yousef Abu Kwaik.<sup>2</sup> Incomplete activation of macrophage apoptosis during intracellular replication of *Legionella pneumophila*. *Infect Immun.* 2005 Sep;73(9):5339-49.

Adwan K, Abu-Hasan N, Adwan G, Jarrar N, Abu-Shanab B, **Abu-Zant A**. Nosocomial infection caused by Methicillin-resistant *Staphylococcus aureus* in Palestine. *Microb Drug Resist.* 2005. Spring;11(1):75-7.

**Alaeddin Abu-Zant** and Yousef Abu Kwaik. RpoS but not the stringent response is involved in intracellular Replication of *L. pneumophila* within human macrophages and amoebae. (accepted for publication in *Infection and Immunity*).

**Alaeddin Abu-Zant**, Maëlle Molmeret and Yousef Abu Kwaik. Temporal modulation of macrophages pro-and anti-apoptotic signaling by the Dot/Icm secretion system of *L. pneumophila*. To be submitted for publication soon.

**Abu-Zant A, Jones S, Asare R, Suttles J, Price C, Graham J, Kwaik. YA.** Anti-apoptotic signaling by the Dot/Icm secretion system of *L. pneumophila*. *Cell Microbiol.* 2006 Aug 15

ATTENDED MEETINGS

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May 2000 Los Angeles, CA  
*American Society for Microbiology – General Meeting*

May 2004 New Orleans, LA  
*American Society for Microbiology – General Meeting*

Oct. 2005 Chicago, IL  
*6th International Conference on Legionella*

ALAEDDIN ABU-ZANT, PH.D.

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- **Poster: Alaeddin Abu-Zant, Maëlle Molmeret, and Yousef Abu Kwaik.** Temporal modulation of macrophage pro- and anti-apoptotic signaling by the Dot/Icm secretion system of *L. pneumophila*.

LANGUAGES

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Arabic, English

AWARDS RECEIVED

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Centers for Disease Control and Prevention Atlanta, GA

*US Government fellowship award recipient*

I was ranked first in my class upon finishing my undergraduate degree

REFERENCES

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AVAILABLE UPON REQUEST

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