

**Professional Vita**  
**Jessica E. Bickham**

**Formal Education**

---

Master of Arts in Molecular, Cellular, and Developmental Biology; University of California, Santa Barbara (UCSB), Santa Barbara, CA, 2003. *Thesis*: "Development of an Animal Model to Study Urinary Tract Infections, and the Identification of Factors That May Play Roles in *Escherichia coli* Intestinal Colonization"

Bachelor of Science in Cell & Structural Biology; University of Illinois at Urbana-Champaign, Urbana-Champaign, IL, 1999

**Specialized Courses and Workshops**

---

- California Association of Criminalists (CAC): DNA Workshop, October 2011
- CAC: Advanced DNA Mixture Interpretation Workshop, December 2010
- CAC: DNA Workshop, Spring Seminar, 2010
- CAC: DNA Workshop, Fall Seminar, 2007
- Population Statistics and Forensic DNA Analysis: course by Dr. George Carmody, Seattle, WA, 2006
- Applied Biosystems HID University: Future Trends in Forensic DNA Technology, 2006
  - Practical STR Statistics Workshop
  - GeneMapper ID Software Verification Workshop
- CAC: DNA User's Group, Fall Seminar, 2005
- Promega: International Symposium on Human Identification, 2004
  - Low Copy Number Workshop
  - Parentage/Mixture Statistics Workshop

**Occupational History**

---

Nov 2008 – Senior Forensic Scientist, Technical Associates, Inc., Ventura, CA

Feb 2008 – Assistant Laboratory Director, Technical Associates, Inc., Ventura, CA

Jan 2006 – Assistant Technical Lead/Technical Manager, Technical Associates, Inc., Ventura, CA

2003 – 2008 Forensic Scientist, Technical Associates, Inc., Ventura, CA

1999 – 2003 Molecular geneticist research graduate student, UCSB, Department of Molecular, Cellular & Developmental Biology, Dr. David Low's laboratory

1996 – 1999 Summer Intern, Motorola Inc. Control Centers Department, Schaumburg, IL (1996, 1997, 1999)

1998 Summer Intern, Motorola Inc. BioChip Systems, Tempe, AZ

## **Teaching Projects**

---

2000 – 2003 Teaching Assistant in Molecular Genetics, Teaching Assistant in Immunobiology, Teaching Assistant in The Immune System & AIDS, UCSB

## **Professional Meetings**

---

- California Association of Criminalists (CAC): DNA Workshop, October 2011
- CAC: Spring Seminar, 2010
- Forensic Science for the 21<sup>st</sup> Century: The National Academy of Sciences Report and Beyond, 2009
- The Science of DNA Profiling: A National Expert Forum, Forensic Bioinformatics Annual Conference, 2008
- CAC: DNA Workshop, Fall Seminar, 2007
- Science in the Courtroom for the 21<sup>st</sup> Century: Issues in Forensic DNA, 2006
- DNA From Crime Scene to Court Room: An Expert Forum, Forensic Bioinformatics Annual Conference, 2006
- Applied Biosystems HID University: Future Trends in Forensic DNA Technology, 2006
- CAC: DNA User's Group, Fall Seminar, 2005
- Promega: International Symposium on Human Identification, 2004
- Applied Biosystems: Future Trends in Forensic DNA Technology, 2004

## Publications and Presentations

---

- 2011 "Molecular Biology in Forensic Science", Westmont College, Montecito, CA
- 2010 "Molecular Biology in Forensic Science", Westmont College, Montecito, CA
- 2009 "Molecular Biology in Forensic Science", Westmont College, Montecito, CA
- 2008 "Molecular Biology in Forensic Science", Westmont College, Montecito, CA
- 2007 "Biology in Forensics", Bioscience Academy, Ventura, CA
- 2007 "Biology in Forensics", Carpinteria High School, Carpinteria, CA
- 2007 "Molecular Biology in Forensics", Westmont College, Montecito, CA
- 2006 "How to Investigate a Case that has DNA Evidence", National Defender Investigator Association National Conference, San Francisco, CA
- 2006 "DNA in Forensics", Bioscience Academy, Ventura, CA
- 2005 Aoki, S. K., Pamma, R., Hernday, A. D., Bickham, J. E., Braaten, B. A., Low, D. A. "Contact-Dependent Inhibition of Growth in *Escherichia coli*"; *Science* **309**, 1245 (2005).
- 2005 "DNA in Forensics", University of California, Santa Barbara
- 2005 "DNA in Forensics", Bioscience Academy, Ventura, CA
- 2005 "DNA in Forensics", Buena High School, Ventura, CA
- 2005 "DNA in Forensics", Ventura College, Ventura, CA
- 2004 "DNA in Forensics", University of California, Santa Barbara
- 2004 "DNA in Forensics", Ventura College, Ventura, CA

## Awards and Honors

---

- 2003 Outstanding Teaching Award, University of California, Santa Barbara