

CURRICULUM VITAE

Blaine M. Kern

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Updated December 28, 2007

PROFESSIONAL EXPERIENCE

**PRESIDENT/FORENSIC SCIENTIST, Human Identification Technologies, Inc.,
Redlands, CA, 2007 to Present**

- Oversee daily business and laboratory operations
- Assist in the evaluation and implementation of new DNA testing platforms
- Oversee and engage in DNA consulting/training activities
- Generate detailed DNA consulting reports
- Testify as an expert in courts of law
- Peer review other Forensic Scientists work for correctness and completeness

**PRESIDENT/FORENSIC SCIENTIST, Human Identification Technologies, Inc.,
Redlands, CA, 2004 to 2006**

- Oversee daily business and laboratory operations

DNA Analysis

- Assist in the design and implementation of a validation study to employ the latest technologies for forensic DNA testing
- Evaluate the most recent forensic DNA testing systems
- Interpret data to form results and conclusions
- Calculate statistical significance of DNA typing results
- Generate scientific reports detailing evidence, examinations, results and conclusions
- Testify as an expert in courts of law
- Peer review other Forensic Scientists work for correctness and completeness

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CRIMINALIST II, San Bernardino County Sheriff's Department Scientific Investigations Division, San Bernardino, CA, 1998 to 2004

DNA Analysis

- Analyze DNA from biological evidence collected at crime scenes with polymerase chain reaction (PCR) based technologies
- Expertise includes the following PCR-based DNA typing systems: PM+DQA1 via reverse dot blot (SSO typing), D1S80 via polyacrylamide gel electrophoresis (VNTR typing), Profiler Plus and COfiler via capillary electrophoresis (STR typing).
- Identify physiological fluids
- Interpret data to form results and conclusions
- Calculate statistical significance of DNA typing results
- Generate scientific reports detailing evidence, examinations, results and conclusions
- Assist in inventory tracking and ordering
- Testify as an expert in courts of law
- Maintain strict quality control measures
- Peer review other Criminalists work for correctness and completeness

Crime Scene Investigations

- Assist in clandestine drug laboratory investigations

CRIMINALIST I, San Bernardino County Sheriff's Department Scientific Investigations Division, San Bernardino, CA, 1994 to 1998

Controlled Substance Analysis

- Analyze controlled substances and chemical evidence from clandestine drug laboratories

Crime Scene Investigations

- Assist various law enforcement agencies with clandestine drug laboratory investigations
- Expertise includes the following: Crime scene reconstruction, basic photography, detailed note taking, crime scene sketches, evidence collection and latent print processing.

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Forensic Biology/DNA

- Performed physiological stain preservation on biological evidence collected at crime scenes
- Processed and preserved various sexual assault evidence
- Commenced Forensic DNA analysis training

HOSPITAL SERVICES TECHNICIAN, Blood Bank of San Bernardino and Riverside Counties, San Bernardino, CA, 1992 to 1994

- Performed enzyme-linked immunoassays (ELISA) for the detection of HIV I/II, hepatitis B and hepatitis C antibodies
- Assisted in the validation of new testing systems
- Responsible for equipment calibration, repair, and maintenance
- Generated reports detailing testing results

COURT TESTIMONY QUALIFICATIONS

DNA

Qualified as an expert witness in PM+DQA1, D1S80, and/or STR, PCR-based DNA analyses:

Superior Court

San Bernardino County, California
Riverside County, California

Other

Qualified as an expert witness in analysis of controlled substances, chemical analysis of clandestine drug laboratory evidence and clandestine drug laboratory crime scene investigations:

Superior Court

San Bernardino County, California
Riverside County, California

Municipal Court

San Bernardino, County, California

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ACADEMIC QUALIFICATIONS

Bachelor of Arts in Biology, 1994
Bachelor of Arts in Environmental Studies, 1994
California State University, San Bernardino

Includes courses in Biochemistry, Genetics, Molecular Biology and Statistics

SPECIALIZED TRAINING (DNA)

Advanced Topics in Forensic Statistics
The 17th International Symposium on Human Identification
Nashville, Tennessee
2006- 7 hours

Extraction of DNA from Aged Skeletal Remains &
Forensic Mitochondrial DNA Sequence Analysis
Armed Forces DNA Identification Laboratory
Rockville, Maryland
2005 - 24 hours

Real-Time PCR Quantification Workshop
Applied Biosystems
Ventura, California
2004 - 4 hours

DNA Workshop
California Association of Criminalists Seminar
Ventura, California
2004 - 8 hours

DNA Statistics Workshop
California Association of Criminalists Seminar
San Diego, California
2003 - 16 hours

PCR - DNA: Short Tandem Repeat (STR) Analysis and Typing
California Criminalistics Institute
Sacramento, California
2002 - 26 hours

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Short Tandem Repeat (STR) Analysis Training
San Bernardino County Sheriff's Department
San Bernardino, California
2001 - 5 months

Short Tandem Repeat (STR) Analysis by Capillary Electrophoresis
Federal Bureau of Investigation
Quantico, Virginia
2001 - 36 hours

DNA Forensics Conference
Cambridge Healthtech Institute
Springfield, Virginia
2000- 20 hours

Statistics in DNA Analysis
California Criminalistics Institute
Newport Beach, California
1999 - 16 hours

DNA - Polymerase Chain Reaction: DQA1/Polymarker
California Criminalistics Institute
Sacramento, California
1999 - 40 hours

DNA Extraction and Quantification
California Criminalistics Institute
Sacramento, California
1999 - 32 hours

DNA Analysis Training -DQA1/Polymarker and D1S80
San Bernardino County Sheriff's Department
San Bernardino, California
1998-1999 - 11 months

SPECIALIZED TRAINING (OTHER)

Technical Writing for Criminalists
California Criminalistics Institute
San Luis Obispo, California
2001 - 24 hours

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Bloodstain Pattern Interpretation Workshop
California Association of Criminalists Seminar
San Diego, California
1998 – 8 hours

Basic Practical Microscopy
California Criminalistics Institute
Sacramento, California
1998 – 40 hours

Clandestine Drug Laboratory Waste Operations
California Specialized Training Institute
San Luis Obispo, California
1997 – 40 hours

Clandestine Laboratory Technical Training Seminar
Clandestine Laboratory Investigating Chemists
San Diego, California
1997 – 40 hours

Clandestine Laboratory Investigation
California Narcotic Officers' Association
Huntington Beach, California
1997 – 16 hours

Explosives Recognition
San Bernardino County Sheriff's Department
San Bernardino, California
1997 – 8 hours

Clandestine Laboratory Investigation
Clandestine Laboratory Investigators Association
Sacramento, California
1996 – 40 hours

Interpretation of Infrared Spectra
California Criminalistics Institute
San Diego, California
1995 – 24 hours

Clandestine Laboratory Analysis and Synthesis
California Criminalistics Institute
Sacramento, California
1995 – 40 hours

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Clandestine Laboratory Investigations
California Narcotic Officers' Association
Fullerton, California
1995 – 8 hours

Explosives Recognition
San Bernardino County Sheriff's Department
San Bernardino, California
1995 – 8 hours

Controlled Substance Analysis
San Bernardino County Sheriff's Department
San Bernardino, California
1994 – 3 months

Clandestine Laboratory Investigation and Analysis
San Bernardino County Sheriff's Department
San Bernardino, California
1994 – Investigations – 3 months
1994 – Analysis – 6 months

Courtroom Testimony Skills
Sound Communication, Los Angeles Police Department
Los Angeles, California
1994 – 8 hours

PRESENTATIONS

Kern B. “What Every PI Needs to Know About DNA”, presented at the California Association of Licensed Investigators Seminar, 2006, San Diego, California

Kern B. “Forensic Science”, presented at the Federal Defenders of Montana / Montana Association of Criminal Defense Lawyers, Criminal Defense Attorney Seminar, 2005, Big Sky, Montana

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

American Academy of Forensic Sciences

California Association of Criminalists