

CURRICULUM VITAE

Mehul B. Anjaria

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PROFESSIONAL EXPERIENCE

SENIOR VICE-PRESIDENT/LABORATORY DIRECTOR/DNA TECHNICAL LEADER/QUALITY ASSURANCE OFFICER, Human Identification Technologies, Inc., Redlands, CA, January 2005 to present.

Co-founded California's first ASCLD/*LAB-International* accredited forensic DNA laboratory. Involved in refining concept, authoring business plan, designing facility, and corporate structuring. Conducted initial internal validation studies and was primary author of documentation required for accreditation.

Corporate duties:

- Corporate Secretary
- Member-Board of Directors

As Laboratory Director:

- Oversee laboratory operations
- Ensure compliance with ASCLD/*LAB-International* accreditation requirements
- Supervise laboratory staff
- Recruit Forensic Scientists

As DNA Technical Leader:

- Manage technical operations
- Perform validation of scientific procedures
- Oversee training, safety, and proficiency testing

Mehul B. Anjaria

Continued

As Quality Assurance Officer:

- Ensure that the quality requirements of the management system are implemented and maintained
- Maintain quality manual
- Maintain quality logs
- Coordinate quality audits

As Forensic Scientist:

- Perform forensic biology (DNA) testing
- Perform consultative services
- Testify in legal proceedings
- Perform technical and administrative reviews
- Make presentations to the legal and scientific communities

CRIMINALIST II, San Bernardino County Sheriff's Department Scientific Investigations Division, San Bernardino, CA, December 1998 to January 2005.

- DNA Technical Leader (March 2004 to January 2005)
- Assigned to forensic biology (DNA) unit
- Perform testing to identify biological materials
- Perform DNA testing on biological materials
- Expertise included PM+DQA1, D1S80, and Profiler Plus/COfiler (STR), PCR-based DNA typing systems
- Interpret findings of testing including statistical calculation of population frequencies
- Prepare reports of analyses and testify in a court of law as needed
- Train new analysts
- Perform technical and administrative reviews of casework
- Maintain laboratory equipment
- Maintain strict quality control measures

FORENSIC SCIENTIST II, Orange County Sheriff-Coroner's Department, Santa Ana, CA, March 1998 to December 1998

- Assigned to the controlled substances and clandestine drug laboratory units
- Performed chemical analyses on controlled substances evidence
- Performed chemical analyses on substances associated with clandestine drug manufacture
- Assisted in the processing of clandestine drug laboratory crime scenes, duties included: evidence recognition, preservation, and collection; detailed note taking; basic crime scene sketching; and advising on chemical hazards
- Prepared reports of analyses and testified in a court of law as needed

Mehul B. Anjaria

Continued

FORENSIC SCIENTIST I, Orange County Sheriff-Coroner's Department, Santa Ana, CA, September 1997 to March 1998

- Assigned to the controlled substances and clandestine drug laboratory units
- Performed chemical analyses on controlled substances evidence
- Performed chemical analyses on substances associated with clandestine drug manufacture
- Assisted in the processing of clandestine drug laboratory crime scenes, duties included: evidence recognition, preservation, and collection; detailed note taking; basic crime scene sketching; and advising on chemical hazards
- Prepared reports of analyses and testified in a court of law as needed

CRIMINALIST I, San Bernardino County Sheriff's Department Scientific Investigations Division, San Bernardino, CA, April 1996 to September 1997

- Assigned to the controlled substances and clandestine drug laboratory units
- Performed chemical analyses on controlled substances evidence
- Performed chemical analyses on substances associated with clandestine drug manufacture
- Assisted in the processing of clandestine drug laboratory crime scenes, duties included: evidence recognition, preservation, and collection; detailed note taking; basic crime scene sketching; advising on chemical hazards; basic crime scene photography; and latent fingerprint processing
- Prepared reports of analyses and testified in a court of law as needed

FORENSIC LABORATORY TECHNICIAN TRAINEE, San Bernardino County Sheriff's Department Scientific Investigations Division, San Bernardino, CA, March 1996 to April 1996

- Assigned to the serology unit
- Performed screening tests for blood and semen
- Preserved biological stains for later analysis
- Processed sexual assault evidence
- Identified spermatozoa microscopically
- Prepared reports of analyses

LABORATORY TECHNICIAN, Abbott Laboratories (via Manpower Technical), Abbott Park, IL, August 1995 to February 1996

- Performed enzyme immunoassay for the detection of HIV antibodies

Mehul B. Anjaria
Continued

COURT TESTIMONY QUALIFICATIONS

DNA

Qualified as an expert witness in PM+DQA1, D1S80, Profiler Plus/COfiler (STR), and Identifiler (STR) PCR-based DNA analyses.

Superior Court

San Bernardino, Riverside, and Los Angeles Counties, California

OTHER

Qualified as an expert witness in analysis of controlled substances and/or controlled substance manufacture.

Superior Court

San Bernardino and Orange Counties, California

Municipal Court

San Bernardino, Orange, and Los Angeles Counties, California

Federal Court

Syracuse, New York

Los Angeles, California

ACADEMIC QUALIFICATIONS

MASTER OF SCIENCE, Criminalistics, 2003
California State University at Los Angeles

Thesis title "EVALUATION OF PROTOTYPES OF ROCHE APPLIED SCIENCE'S LINEAR ARRAY™ MITOCHONDRIAL DNA HVI/HVII REGION-SEQUENCE TYPING KIT FOR FORENSIC MITOCHONDRIAL DNA TYPING"

BACHELOR OF SCIENCE, Biochemistry, 1995
University of Illinois at Chicago

Mehul B. Anjaria
Continued

AUDITOR TRAINING COMPLETED

ASCLD/LAB INSPECTOR TRAINING
ASCLD/LAB, held in Springfield, Oregon in conjunction with Oregon State Police
Laboratory
December 2004

FBI DNA QUALITY ASSURANCE AUDIT DOCUMENT
FBI Academy, Quantico, VA
April 2004

CERTIFICATIONS

AMERICAN BOARD OF CRIMINALISTICS
Certificate of professional competency in criminalistics (molecular biology specialty)
Fellow status – June 2001

AMERICAN BOARD OF CRIMINALISTICS
Certificate of professional competency in criminalistics (general)
Diplomate status – December 1998

PRESENTATIONS AT PROFESSIONAL MEETINGS

Anjaria, M. “Understanding the Scientific Process”, presented at ‘Science, Mental Health, and Strategies’-a Solano County Public Defender Office Seminar, August 2007, Fairfield, California

Anjaria M. “DNA Testing Issues”, presented at the 7th Annual Public Defender Retreat, April 2007, Las Vegas, Nevada

Anjaria M. “Surviving an ASCLD/LAB-*International* Inspection”, presented at the California Association of Crime Laboratory Directors Spring 2007 Seminar, Temecula, California

Anjaria M., Kern B. “Considerations in the Design, Validation, and Accreditation of a Forensic, Casework-Focused DNA Laboratory”, poster presented at the 17th Annual International Symposium on Human Identification, 2006, Nashville, Tennessee

Plourd C., Clarke G., Anjaria M. “DNA: A Review and Perspective From All Sides”, presented to the San Diego County Bar Association, 2006, San Diego, California

Mehul B. Anjaria
Continued

Anjaria M. “Experiments With Prototypes of a ‘Linear Array’ System for the Streamlined Forensic Analysis of Mitochondrial DNA”, presented at the California Association of Criminalists Fall 2004 seminar, Ventura, California

Anjaria M, Calloway C, Reynolds R, Grow M, Gregonis D. “Mitochondrial DNA Analysis of Crime Scene Samples Using Prototypes of the LINEAR ARRAY™ Mitochondrial DNA HVI/HVII Region-Sequence Typing Kit”, presented at the California Association of Criminalists Fall 2003 seminar, San Diego, California

Anjaria M, Calloway C, Reynolds R, Grow M, Gregonis D. “Mitochondrial DNA Analysis of Crime Scene Samples Using Prototypes of the LINEAR ARRAY™ Mitochondrial DNA HVI/HVII Region-Sequence Typing Kit”, poster presented at the 14th Annual International Symposium on Human Identification, 2003, Phoenix, Arizona

Anjaria M. “Better Than Your Average Clan Lab”, presented at the California Association of Criminalists Fall 1999 seminar, Ontario, California

Anjaria M. “Cook Fails Chem 101: Hydrogen Sulfide Fatality,” presented at the California Association of Criminalists Fall 1997 seminar, Irvine, California

ABSTRACTS

Calloway C, Anjaria M, Williams D, Naderi S, Herrin G, Reynolds R. “An Investigation of the Frequency of Contamination Detected by mtDNA Analysis of Blood Samples Extracted for RFLP and PCR Based Typing”, presented at the Annual Meeting of the American Academy of Forensic Sciences, 2002, Atlanta, Georgia

Williams D, Anjaria M, Calloway C, Herrin G, Reynolds R. “Analysis of Mitochondrial DNA Sequence Variation in Forensic Samples Using Linear Arrays of Immobilized Sequence-Specific Oligonucleotide Probes and Sequencing”, poster presented at the Annual Meeting of the American Academy of Forensic Sciences, 2002, Atlanta, Georgia

Williams D, Calloway C, Anjaria M, Herrin G, Reynolds R. “Analysis of Forensic Samples Using Linear Arrays of Immobilized Sequence-Specific Oligonucleotide Probes and mtDNA Sequencing”, poster presented at the 12th Annual International Symposium on Human Identification, 2001, Biloxi, Mississippi

Mehul B. Anjaria
Continued

PUBLICATIONS

Anjaria, Mehul B., "Forensic DNA Evidence," California Attorneys for Criminal Justice Forum, volume 32, number 2, July 2005, page 13

Anjaria, Mehul B., and Evans, Hiram K., "Cook Fails Chem 101: Hydrogen Sulfide Fatality," Journal of the Clandestine Laboratory Investigating Chemists Association, volume 7, number 3, July 1997, page 5

SPECIALIZED TRAINING (DNA)

14th Annual National CODIS Conference
Arlington, VA
November 2008 – Approximately 12 hours

Advanced Topics in Forensic Statistics
Workshop at 17th Annual International Symposium on Human Identification
Nashville, TN
October 2006 – Approximately 7 hours

Advanced Topics in STR DNA Analysis
Workshop at American Academy of Forensic Sciences 58th Annual Meeting
Seattle, WA
February 2006 – Approximately 7 hours

Extraction of DNA from Aged Skeletal Remains and Forensic Mitochondrial DNA
Sequence Analysis
Armed Forces DNA Identification Laboratory
October 2005 - Approximately 35 hours

Advanced 310 Genetic Analyzer and AmpFISTR® Training
Applied Biosystems
March 2002 – 30 hours

Analysis of Short Tandem Repeats by Capillary Electrophoresis
Federal Bureau of Investigation
August 2001 – Approximately 34 hours

Mitochondrial DNA Testing Using Linear Arrays
Sandy Calloway, Roche Molecular Systems
April 2001 – Approximately 16 hours

Mehul B. Anjaria

Continued

DNA – Polymerase Chain Reaction: Short Tandem Repeat Analysis and Typing
California Criminalistics Institute
March 2001 – 28 hours

Population Genetics
California State University, Los Angeles
Winter 2000 – four quarter units

Statistics in DNA Analysis
California Criminalistics Institute
October 1999 – 16 hours

DNA – Polymerase Chain Reaction: DQA1 / Polymarker
California Criminalistics Institute
April 1999 – 40 hours

Molecular Biology
University of California at Riverside
Winter 1997 – four quarter units

SPECIALIZED TRAINING (OTHER)

Accreditation of Forensic Science Laboratories Under ISO/IEC 17025: Addressing Specific Requirements in the Accreditation Process
Workshop at American Academy of Forensic Sciences 58th Annual Meeting
Seattle, WA
February 2006 – Approximately 7 hours

Preparing a Forensic Science Laboratory for Accreditation Under ISO 17025
Workshop at American Academy of Forensic Sciences 57th Annual Meeting
New Orleans, LA
February 2005 – Approximately 7 hours

Mass Spectra Theory and Interpretation
California Criminalistics Institute
October 1998 – 24 hours

Clandestine Laboratory Analysis and Synthesis
California Criminalistics Institute
September 1998 – 40 hours

Methamphetamine: Synthesis, Pharmacology, Analysis and Toxicology Workshop
American Academy of Forensic Sciences
February 1998 – 7 hours

Mehul B. Anjaria
Continued

Clandestine Laboratory Safety Certification
Bureau of Narcotics Enforcement
December 1997 – 40 hours

Clandestine Laboratory Investigation Training Seminar
California Narcotic Officers Association
July 1997 – 16 hours

Clandestine Laboratory Overview
California Association of Criminalists
May 1997 – 8 hours

Basic Microscopy
California Criminalistics Institute
September 1996 – 40 hours

Courtroom Presentation of Evidence
San Bernardino County Sheriff's Department
September 1996 – 16 hours

Training Conference
Clandestine Laboratory Investigators Association
August 1996 – 32 hours

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

Delegate Assembly Member-ASCLD/LAB
American Board of Criminalistics
California Association of Criminalists
American Academy of Forensic Sciences
California Association of Crime Laboratory Directors

OTHER

Invited representative of the science and technology communities
Regional Meeting on Science and the Law
Judicial Council of California
Science and the Law Steering Committee
October, 16, 2006 – Burbank, CA