

## Curriculum Vitae

Meghan E. Clement, MS, D-ABC

### Education

- 1985**      **Master of Science, Forensic Science**  
University of New Haven, West Haven, Connecticut  
Honors: Graduate Fellow, 1984
- 1983**      **Bachelor of Science, Biology**  
Westfield State College, Westfield, Massachusetts  
Graduated Cum Laude

### Professional Experience

#### **FORENSIC SEROLOGY/ DNA CONSULTANT** April 2017-Present

Clement Consulting, LLC  
Owner

Provide Forensic Serology and DNA consultation to civil and military attorneys, law enforcement and civilian clients. Review case files and raw data to assist in understanding the serological and STR, Y-STR or mtDNA testing performed, suggest potential new and/or additional testing if applicable, educate as to what conclusions can and cannot be drawn by the testing results, explain the limitations of testing results and assist with trial preparation as well as cross-examinations.

Lead teams during assessments of laboratories for accreditation by ANSI National Accreditation Board (ANAB)

#### **DIRECTOR OF OPERATIONS** June 2015- April 2017

Bode Cellmark Forensics, LabCorp Specialty Testing Group  
Lorton, VA

Responsibilities:    Oversee all forensic laboratory operations, quality assurance aspects, applied research endeavors and work closely with the General Manager on other aspects of the business, perform case consultations, case reviews and provide expert testimony.

#### **SENIOR DIRECTOR** July 2012- December 2015

Cellmark Forensics, LabCorp Specialty Testing Group

Dallas, TX

Responsibilities: Manage the daily responsibilities of laboratory personnel and flow of both contract and independent casework, manage implementation of new tests, participate in analysis of casework and interpretation of results of STR, Y-STR and mtDNA analysis, perform technical reviews and administrative reviews, provide expert testimony, participate in marketing and sales functions.

**TECHNICAL DIRECTOR, FORENSIC IDENTITY** May 2000- July 2012

Laboratory Corporation of America  
Research Triangle Park, North Carolina

Responsibilities: Manage the daily responsibilities of laboratory personnel and flow of casework, as well as implementation of new tests, participate in analysis of casework and interpret results of DNA analysis, prepare reports, provide expert testimony, direct and coordinate marketing and sales functions.

**ASSOCIATE DIRECTOR, FORENSIC IDENTITY** Aug. 1998- May 2000

Laboratory Corporation of America  
Research Triangle Park, North Carolina

Responsibilities: Direct and participate in the DNA analysis of samples submitted to the laboratory, prepare reports of results and provide expert testimony, supervise and direct laboratory technologists and lab clerk positions, direct and coordinate marketing and sales functions.

**ASSISTANT DIRECTOR, FORENSIC IDENTITY** Nov. 1994- Aug. 1998

Laboratory Corporation of America (formerly Roche Biomedical Laboratories)  
Research Triangle Park, North Carolina

Responsibilities: Conduct forensic DNA analysis on biological samples using both RFLP and PCR techniques, oversee and direct the laboratory technologists in the production of forensic DNA casework, prepare reports of results and provide expert testimony, assist in laboratory operations to ensure timely handling of cases and QA/QC measures, assist in the marketing and sales aspects of the Forensic Identity department.

**FORENSIC BIOLOGIST** March 1991 - Nov. 1994

Tarrant County Medical Examiner's Office  
Fort Worth, Texas

Responsibilities: Forensic analysis of biological samples using traditional serological techniques as well as RFLP DNA profiling, conduct research and validation of new techniques in the forensic biology field, provide expert testimony, provide training to officer's in various law enforcement agencies

concerning the collection and preservation of evidence, crime scene investigation.

**SENIOR CRIMINALIST** March 1985 - March 1991

City of Albuquerque, Police Department, Criminalistics  
Albuquerque, New Mexico

Responsibilities: Assisted in implementing a DNA section including setting up quality control measures and population data bases, as well as performing validation studies, traditional serological analysis, blood/breath alcohol concentration analysis, provide expert testimony, crime scene investigation, train new personnel, officers and detectives.

**TEACHING ASSISTANT, FORENSIC SCIENCE** Sept. 1984- Mar. 1985

University of New Haven, West Haven, Connecticut

Responsibilities: Assist in teaching serological techniques to graduate students in the Criminalistics laboratories, assist in research projects being conducted.

**TEACHING ASSISTANT, BIOLOGY** Sept. 1983 - Sept. 1984

University of New Haven, West Haven, Connecticut

Responsibilities: Set up and assist in teaching various biology laboratories to undergraduate students.

**FORENSIC SCIENCE INTERNSHIP** August 1984

New Mexico State Police Crime Laboratory,  
Santa Fe, New Mexico

Observed and participated in case analysis under the supervision of New Mexico State Police forensic analysts in the serology, trace, drugs and firearms sections.

**Affiliations**

American Academy of Forensic Sciences, Member

American Society of Crime Laboratory Directors, Retired Member

ANAB Lead Assessor

**Expert Testimony and Depositions**

Testified 380+ times in 33 states

Testified in local, state, military and federal courts

<b>Forensic Laboratory Experience</b>	<b>Qualified</b>
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|-----------------------------------|------|
| • RFLP                            | 1989 |
| • PCR Analysis and Interpretation | 1990 |
| • DQ Alpha + Polymarker Testing   | 1995 |
| • Paternity Testing               | 1995 |
| • Mitochondrial DNA Analysis      | 1997 |
| • Commercial Kit STR Analysis     | 2002 |
| • Y-STR Analysis                  | 2003 |

<b>Certifications</b>
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Molecular Biology Diplomate - American Board of Criminalistics (**ABC**)

<b>Publications and Oral Presentations</b>
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Budowle, B., Monson, K., Anoe, K.S., Baechtel, S., Bergman, D.L., Buel, E., Campbell, P.A., Clement, M.E. et al (1991) A Preliminary Report on Binned General Population Data on Six VNTR Loci in Caucasians, Blacks and Hispanics from the United States. *Crime Lab Digest* 18:9-26.

Validation of Multiplex STR Profiling Systems for Forensic Casework Specimens  
American Academy of Forensic Sciences, Feb. 1998

Developing a DNA Laboratory on a Shoestring Budget  
Southwestern Association of Forensic Scientists, Spring Meeting 1991

<b>Continuing Education</b>
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July 2019 *Green Mountain Conference*, Burlington, VT

July 2018 *Green Mountain Conference*, Burlington, VT

Feb 2018 *AAFS Workshops: Moving from CPI to Probabilistic Genotyping for DNA Mixtures and Proposed Revisions to the FBI QA Standards*, Seattle, WA

Feb 2017 *AAFS Annual Meeting*, New Orleans, LA

Sept 2016 *International Symposium on Human Identification*, Minneapolis, MN

Oct 2015 *International Symposium on Human Identification*, Grapevine, TX

Feb 2015 *AAFS Annual Meeting*, Orlando, FL

Sept 2014 *Genome ID Forum*, Greensboro, NC  
*Forensic Genomic Applications*

May 2014 *ASCLD Annual Meeting*, Scottsdale, AZ  
*Workshop-Solving Mixtures Genome-wide: Practical, Measureable Solutions*

Feb 2014 *AAFS Annual Meeting*, Seattle, WA

Oct 2013 *International Symposium on Human Identification*, Atlanta, GA

Feb 2013 *AAFS Annual Meeting*, Washington, DC

June 2012 *2012 NIJ Meeting*, Arlington, VA

Feb 2012 *AAFS Annual Meeting*, Atlanta, GA

Oct 2011 *Mixture Interpretation Workshop-Promega International Symposium on Human Identification*, National Harbor, DC

Nov 2011 *CODIS Meeting*, Jasonville, FL

Feb 2010 *AAFS Annual Meeting*, Seattle, WA

Aug 2009 *HID Future Trends in DNA Technology*, Applied Biosystems, Richmond, VA

Ape 2009 *FBI DNA Auditor's Refresher Training*, Raleigh, NC

Feb 2009 *AAFS Annual Meeting*, Denver, CO

July 2008 *NIJ Meeting*, Arlington, VA

Feb 2007 *AAFS Annual Meeting*, San Antonio, TX

Aug 2006 *AFDAA Summer Meeting*, Austin, TX

May 2006 *ABI Human Identity University*, Research Triangle Park, NC

Feb 2006 *AAFS Annual Meeting*, Seattle, WA

Jun 2005 *6<sup>th</sup> Annual DNA Grantees Workshop*, Arlington, VA

Apr 2004 *FBI DNA Auditor's Training*, Quantico, VA

- Feb 2004 *AAFS Annual Meeting*, Dallas, TX  
*Forensic Human mtDNA Analysis Workshop*
- Oct 2003 *International Symposium on Human Identification*, Phoenix, AZ  
*Making Sense of Popstats Workshop*
- Apr 2003 *ASCLD/LAB-Laboratory Inspector Training Course*, Raleigh, NC
- Feb 2003 *AAFS Annual Meeting*, Chicago, IL  
*Low Copy Number DNA Analysis Workshop*
- Jun 2002 *DNA Grantees Workshop*, Arlington, VA
- Oct 2001 *7<sup>th</sup> Annual CODIS User's Conference*, Arlington, VA
- Feb 2001 *AAFS Annual Meeting*, Seattle, WA
- Feb 2000 *AAFS Annual Meeting*, Reno, NV
- Oct 1999 *NIJ Meeting*, Arlington, VA
- Apr 1998 *Mitochondrial DNA Analysis and Data Basing*, presented by Mark Wilson and Clint Stauffer
- Feb 1998 *AAFS Annual Meeting*, San Francisco, CA
- Sept 1997 *International Symposium on Human Identification*, Phoenix, AZ
- Feb 1997 *AAFS Annual Meeting*, NYC, NY
- Oct 1996 *English Speaking Working Group International Society for Forensic Haemogenetics*
- Sept 1996 *International Symposium on Human Identification*, Phoenix, AZ

### **Specialized Schools and Training**

- Nov 2018 *ANAB LEAD ASSESSOR TRAINING*  
Denver, CO
- Dec 2011 *ASCLD/LAB TECHNICAL ASSESSOR REFRESHER TRAINING*  
*(June 2011 revision-on line training)*
- Apr 2009 *DNA AUDITOR REFRESHER TRAINING*, Presented by the FBI,  
Research Triangle Park, NC

- Jan 2006 ***ASCLD/LAB-International ASSESSOR TRAINING COURSE***, Houston, TX
- Apr 2004 ***DNA AUDITOR TRAINING***, FBI Academy, Quantico, VA
- Apr 2003 ***ASCLD-LAB INSPECTOR TRAINING***, Raleigh, NC
- Mar 1995 ***FORENSIC AMPLIYPE PM + HLA DQA1 PCR WORKSHOP***, Perkin-Elmer Training Dept., Foster City, CA
- June 1991 ***ADVANCED FORENSIC DNA TYPING SCHOOL***, FBI Academy, Quantico, Virginia
- Mar-Jun1990 ***VISITING SCIENTIST PROGRAM***, FBI Academy, Quantico, Virginia
- Assisted in numerous DNA research projects being conducted by the FBI Research and Training Center including data base compilation, ethidium bromide use in DNA analysis, quantitation of human DNA using slot blot techniques, effect of glycerol concentration on DNA, studies on possible ladders for amplified fragment length polymorphisms (amp-FLPs)/variable number tandem repeats (VNTRs), and population data base compilation of amp-Flp MCT118.
- Dec 1989 ***FORENSIC APPLICATIONS OF DNA TYPING***, FBI Academy, Quantico, Virginia
- Fall 1988 ***MOLECULAR GENETICS AND FORENSIC SCIENCE***, University of New Mexico, Albuquerque, New Mexico
- May 1988 ***DNA POLYMORPHISM AND DNA TYPING COURSE/WORKSHOP***, University of New Haven, West Haven, Connecticut