



Kristi E. Spittle

WORK EXPERIENCE

March 2009 – Present

Serological Research Institute, Richmond, CA.

Forensic Serologist I

Examine physical evidence and conduct presumptive and/or confirmatory tests for blood, semen, saliva and other biological fluids; Organic and differential extraction of biological stains; Quantitation using real time PCR; Amplification using the AmpF/STR® Identifiler®, Yfiler®, and MiniFiler™ kits. STR, Y-STR and mini-STR fragment separation and analysis; Preparing case folders including both statistical analysis of data and interpretative reports; Court testimony; Conduct research projects and validation studies; Quality control and working toward compliance with the ASCLD/LAB accreditation manual.

July 2007 – Feb. 2009

Massachusetts State Police Crime Laboratory, Maynard, MA.

Crime Scene Response Unit Chemist II

Identification, documentation, collection and packaging of evidentiary items; Communicating with and providing assistance to law enforcement and attorneys; Presumptive tests for the presence of biological fluids (ex. blood and semen); Write reports to findings; Available to testify in court.

Dec. 2006 – Feb. 2009

Massachusetts State Police Crime Laboratory, Maynard, MA.

DNA Unit Chemist I & Chemist II

Organic and differential extraction of biological stains; Quantitation using real time PCR; Amplification using the AmpF/STR® Identifiler® and Yfiler® kits; STR and Y-STR fragment separation and analysis; Preparing case folders including both statistical analysis of data and interpretative reports; Conduct peer and administrative reviews of case folders; Conduct technical reviews of exemplar/databasing files; Court testimony; Organizing and performing technical reviews of STR data from external laboratories; Quality control and working toward compliance with the ASCLD/LAB accreditation manual.

August 2006

University of Verona, School of Legal Medicine, Verona, Italy

Intern

K+ analysis on vitreous humor to gain time since death information; Carbohydrate Deficient Transferrin (CDT) analysis in blood to gain information on alcohol abuse prior to death; Observed DNA analysis and assisted in running instrumentation.

EDUCATION

- 2005-2007** **University of New Haven** - West Haven, CT
Master of Science in Forensic Science: Criminalistics
Professional Certificate in Advanced Investigation
- 2001-2005** **Lehigh University** - Bethlehem, PA
Bachelor of Science in Molecular Biology
Graduated with honors

RESEARCH

- August 2006 – March 2007** **Optimization of Methods for CDT Analysis**, University of New Haven
Worked on optimizing a method for Carbohydrate Deficient Transferrin (CDT) analysis in human blood serum through experimentation with different reagent concentrations.

TESTIMONY EXPERIENCE

Qualified as an expert witness in the Commonwealth of Massachusetts
Testified in Salem Superior Court, Worcester Superior Court and Middlesex Superior Court

CONTINUING EDUCATION AND TRAINING

- October 2009 - California Association of Criminalists – “Hair Microscopy for the DNA Analyst Workshop” – Skip Palenik – San Jose, CA
- August 2008 - Future Trends in Forensic DNA Technology – Applied Biosystems – Westchester, NY
- April 2008 - DNA Matrix Training – Porter Lee Corporation - Maynard, MA
- March 2008 - The Human Identification e-Symposium on DNA Interpretation – Maynard, MA
- February 2008 - DNA and CODIS lecture – Jennifer Elliott and Patty Byron – Maynard, MA
- October 2007 - “Search and Seizure”- Nancy J. Burns, JD, Sudbury, MA
“Expert Witness Testimony for Crime Scenes” – Nancy J. Burns, JD – Sudbury, MA
- May 2007 - “Trace Evidence Collection” – Beth Fisher – Maynard, MA
- April 2007 - Mixture Interpretation and Statistical Analysis Training - George Carmody, Ph.D and Ray Wickenheiser – Maynard, MA
- March 2007 - “Forensic Interpretation of Wounds” – Kimberley Springe, M.D.– Maynard, MA
NERFI (Northeast Regional Forensic Institute) training – Maynard, MA
- February 2007 - “Courts of the Commonwealth” – Nancy J. Burns, JD – Maynard, MA
- January 2007 - Buccal DNA Collection Training – Robert J. Martin – Maynard, MA

PRESENTATION

- April 2008 **Women in Science Conference for Girls**, Oak Middle School, Shrewsbury, MA
Conducted a workshop along with a State Police trooper on forensic science and crime scene investigation at the Massachusetts State Police.