

Curriculum Vitae

Jimmy D. Threet

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ACADEMIC QUALIFICATIONS

University of Florida, Gainesville, Florida
Masters in Forensic Science, DNA / Serology-2008

Texas Tech University, Lubbock, Texas
Bachelor of Arts in Chemistry-1996

Includes courses in Chemistry, Biochemistry, Organic Chemistry, Physical Chemistry, Analytical Chemistry, Forensic Analysis of DNA, Laboratory QA/QC, Genetics, Molecular Biology, Bloodstain Pattern Analysis, Calculus I, II and Statistics

PROFESSIONAL EXPERIENCE

Founder and Owner of Arkansas Genomics LLC. Established in 2006 as Arkansas's first and only FQS / 17025 / ASCLAD / AABB Accredited Private Forensic DNA / Paternity Testing Laboratory. Sole authority in refining concept, lab design, corporate structure and recruitment, including lone author of the Business Plan and Financial Projections through 2014.

Prior to launching Arkansas Genomics, Jimmy worked five years at the State level and nine years at the Federal level of the U.S. Government working for the U.S. Food & Drug Administration's (FDA), Arkansas Regional Laboratory. Jimmy's research contributions after initial hire at the FDA eventually reached publication in the *Journal of Women's Health*.

With over 15 years of laboratory experience Jimmy has been exposed to continuous regulation and accreditation requirements.

Jimmy was hired at the FDA's Arkansas Regional Laboratory in 2001 before accreditation was obtained and played a major role in preparing the laboratory for ISO 17025 Accreditation. Jimmy has also successfully completed annual proficiency testing and ISO 17025 audits for the past six years.

2001-Present Title: Chemist / DNA Analyst

Employer: U.S. Food & Drug Administration, Arkansas Regional Laboratory, Jefferson, Arkansas

Supervisor: Darryl Langley

Areas of Expertise include: (2006-2011) Collection, acceptance and establishment of Chain of Custody (COC) for federally regulated evidentiary samples. Microscopically analyze feed samples in accordance with regulation on animal proteins prohibited in ruminant feed published under 21 CFR Part 589.2000. This regulation is designed to prevent the establishment and amplification of Bovine Spongiform Encephalopathy (BSE), sometimes referred to as "Mad Cow Disease", through animal feed. Further DNA testing conducted depending upon microscopic findings. Currently validating new RT-PCR screening method to replace current microscopic screening method. Received extensive training in Microscopy Techniques and DNA Analysis with emphasis on hair, bone and muscle tissue recognition and identification via microscopy examination. Annual proficiency testing conducted along with annual audits subject to ISO 17025 Accreditation. Successfully completed annual proficiency testing and ISO 17025 audits.

Areas of Expertise include: (2004-2006) Sole analyst for an annual and continual *Total Diet Study* requested by CFSAN for the Identification and Detection of Dioxins and Furans in 355 different types of food matrices including freeze dry samples using Labconco Freeze Dryer Instrument. Responsible for establishing COC, worksheet generation, extraction, purification and concentration steps associated with the Study including all QA/QC requirements. Successfully completed annual proficiency testing and ISO 17025 audits.

Areas of Expertise include: (2002-2004) Directly responsible for identifying, initiating and creating necessary materials needed to meet ISO 17025 Accreditation for a broad scope of testing platforms including the written documentation of Standard Operating Procedures (SOPs). Responsible for establishing COC, extraction and analysis of Dioxins and Furans in Animal Feed Samples received from the Center of Veterinary Medicine (CVM), including; receipt, extraction, purification procedures and final concentration steps prior to Gas Chromatography / Mass Spectrometer (GC/MS) analysis. Interpreted and processed raw data includes; system suitability testing, standard 5-point calibration curve and all QA/QC samples equaling at least 20% of total sample batch. Successfully completed annual proficiency testing and ISO 17025 audits.

Areas of Expertise include: (2001-2002) Research Project for *Office of Women's Health* through a grant program requesting the FDA's, Arkansas Regional Laboratory to determine the amount of Dioxins and Furans found in feminine hygiene products due to the bleaching process during manufacturing procedures. Responsible for method development including selection of most efficient Organic extracting reagents, temperature controls, purification steps and data interpretation. Research ultimately reached publication (2005) in the *Journal of Women's Health*.

1996-2001

Title: Chemist

Employer: Arkansas Department of Health, Organic Chemistry Section
Little Rock, Arkansas

Supervisor: Connie Drake

Areas of Expertise include: (1999-2001) Complete organic micro-extraction and instrument analysis for an EPA regulated Organic Pesticide known as Ethidium Dibromide (EDB) in drinking water via Shimadzu Gas Chromatography (GC) with Dual Column and Electron Capture Detector (ECD). All maintenance associated with GC to meet necessary quality assurance standards for both accuracy and precision. Responsible for sample worksheet documentation including chain of custody and all QA/QC tests associated with sample tests. Successful annual proficiency testing including annual external EPA administered *Water Study* for blind proficiency testing.

Areas of Expertise include: (1998-1999) Responsible for bringing new Total Organic Carbon (TOC) method on line, including initial cost analysis for all necessary materials including; glass ware, reagents, standards, gas type and consumption rate / sample, instrumentation and instrumentation consumables. Primary author of the Standard Operating Procedure (SOP) written document associated with the TOC Method including total scope of analysis. Analyzed and completed Sample Package including all QA/QC tests for over 2,000 samples per month using Tekmar Dorman's Phoenix 8000 Total Organic Analyzer. Successfully completed annual proficiency testing including annual external EPA administered *Water Study* for blind proficiency testing.

Areas of Expertise include: (1997-1998) Team member among three (3) Chemists responsible for the Acid / Base Hydrolysis, Macro-Extraction of EPA regulated Chlorinated Phenols and Aromatic Hydrocarbons (CPAH's) found in drinking water using Organic solvents via Shimadzu

Gas Chromatography (GC) with Dual Column and Electron Capture Detector (ECD). Successfully completed annual proficiency testing including annual EPA administered *Water Study* blind proficiency test.

Areas of Expertise include: (1996-1997) Primary Sample Custodian for weekly sample receipt for the entire Organic Chemistry Section receiving at least 3,000 samples monthly. Responsible for establishing COC upon receipt, properly documenting each sample and ensuring proper storage according to sample type.

SPECIALIZED TRAINING

DNA Analysis / RT-PCR Training
Center for Veterinary Medicine (CVM)
Rockville, Maryland
2009-40 hrs

Generating DNA Profiles from Difficult Samples
The 18th International Symposium on Human Identification
Hollywood, California
2007- 3 hours

Applied Statistics
The 18th International Symposium on Human Identification
Hollywood, California
2007- 7 hours

Verbal Judo
Verbal Judo Institute
Little Rock, Arkansas
2005- 40 hours

Evidence Development
Office of Regulatory Affairs (ORA)
Division of Human Resource Development
Rockville, Maryland
2004- 40 hours

Basic Food and Drug Law
Office of Regulatory Affairs (ORA)
Division of Human Resource Development
Rockville, Maryland
2004- 40 hours

Interviewing and Interrogation Techniques
John E. Reid Associates, INC
Kansas City, Kansas
2001- 24 hours

MEMBERSHIPS AND ASSOCIATIONS

2009-Sparrow Flying Club, Conway Arkansas
2009-American Academy for Forensic Scientist (AAFS) (pending acceptance)
2006-American Association of Blood Banks (AABB) #151050
2005-Aircraft Owners and Pilot Association (AOPA) # 04079198
1991-American Chemical Society (ACS)
1991-Sigma Chi Fraternity, Texas Tech University, Life Loyal Sigma Chi # 53661
1976-United States Judo Association (USJA) # 359221

ACCOMPLISHMENTS AND ACHIEVEMENTS

Private Pilot-2005, Airplane Single Engine, Land, U.S. Department of Transportation, FAA, License # 311897

Certified Rescue / Recovery Scuba Diver-2000, Great Barrier Reef, Cairns, Australia
Certified Open Water Diver-1995, Scuba Schools International, SSI, OWI # 3767

Shodan Rank, 1st Degree Black Belt, United States Judo Association, 2009, Tim Joe's School of Judo

Ikkyu Rank, 3rd Degree Brown Belt, United States Judo Association, 2008, Tim Joe's School of Judo

Nikyu Rank, 2nd Degree Brown Belt, United States Judo Association, 2007, Tim Joe's School of Judo

Sankyu Rank, 1st Degree Brown Belt, United States Judo Association, 2006, Tim Joe's School of Judo

Entered Tim Joe's School of Judo, Amarillo Texas, 1976-1996. Periodic visits for promotional reviews.

AWARDS AND PUBLICATIONS

Leadership Award – DHHS, U.S. Food & Drug Administration, September, 2006. Recognition for Coordination, Assignment and Completion of samples associated with FY 2006 Total Diet Samples.

Teamwork and Collegiality Award – DHHS, U.S. Food & Drug Administration, September, 2006. Recognition for contribution to the Dioxin Team in efforts made to meet required work plan goal.

Special Accomplishment Award – DHHS, U.S. Food & Drug Administration, June, 2005. Recognition for rapid analysis in less than 24 hours for sediment samples received for confirmation analysis crucial to CVM, CFSAN, and two companies under investigation.

Leadership Award – DHHS, U.S. Food & Drug Administration, October, 2005. Recognition for Coordination, Assignment and Completion of samples associated with FY 2005 Total Diet Samples.

Group Recognition Award – DHHS, U.S. Food & Drug Administration, May, 2004 presented by Acting Commissioner Lester M. Crawford, DVM, Ph.D. Recognition for the simultaneous support of multiple, highly visible, dioxin investigations ranging from state to international interest while maintaining work plan efforts.

Publications

J.C. Archer, R. Mabry-Smith, S. Shojaee, **J. Threet**, J.J. Eckert and V.E. Litman (2005). *Dioxin and Furan Levels Found in Tampons*, Journal of Women's Health, Volume 14, No. 4; 311-315