

**VCU Department of Forensic Science Faculty and Graduate Student
Presentations and Publications**

2009-2010

Publications

Bonnette M.D., Pavlova V.R., Rodier D.N., Thompson L.P., Boone E.L., *Brown K.L.*, Meyer K.M., Trevino M.B., *Champagne J.R.*, and **Dawson Cruz T.** (2009) dcDegenerate oligonucleotide primed-PCR for multilocus, genome-wide analysis from limited quantities of DNA. *Diagnostic Molecular Pathology* 18(3): 165-175.

Brenzovich J., Macey M., Fernando J., Chong H.J., Barnstein B., Mirmonsef P., Morales J.K., Kimura A., **Dawson Cruz T.**, Ryan J.J. (2009) IgE signaling suppresses FcepsilonR1beta expression. *Journal of Leukocyte Biology* 86(6):1351-8.

Claytor LK and **Davis AL.** (2010) Validation of fracture matching through the microscopic examination of the fractured surfaces of hacksaw blades. *The Association of Firearms and Toolmark Examiners Journal* 42(4):323-344.

DeLong GT, **Wolf CE**, **Poklis A**, and Lichtman AH. (2010) Pharmacological evaluation of the natural constituent of cannabis sativa, cannabichromene and its modulation by Δ^9 -tetrahydrocannabinol. *Drug & Alcohol Dependence* 112:126.

Geronimus AT, Hicken MT, Pearson JA, **Seashols SJ**, Brown IL, **Dawson Cruz T.** (2010) Do US black women experience stress-related accelerated biological aging? *Human Nature* 21: 19-38.

Goodpaster JV, Sturdevant AB, Andrews KL, *Briley EM*, Brun-conti L. (2009) Identification and comparison of electrical tapes using instrumental and statistical techniques: II. Organic composition of the tape backing and adhesive. *Journal of Forensic Sciences* 54(2):328-338.

Linch CA, *Champagne JR*, *Bonnette MD*, and **Dawson Cruz T.** (2009) Specific melanin content in human hairs and mitochondrial DNA typing success. *American Journal of Forensic Medicine & Pathology* 30(2):162-166.

Poklis JL, Thompson CC, Long KA, Lichtman AH, and **Poklis A.** (2010) Disposition of cannabichromene, cannabidiol and Δ^9 -tetrahydrocannabinol and its metabolites in mice brain following marijuana inhalation determined by HPLC/MS/MS. *Analytical Toxicology* 34:516.

Talks and Posters

A. *Ackroyd-Isales* (presenter) **S. Greenspoon**, K. Horseman-Hall, **S.J. Seashols.** "Optimization of the Biomek NX Lab Automation Workstation for Use With Forensic Samples." 2010 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2010.

**VCU Department of Forensic Science Faculty and Graduate Student
Presentations and Publications**

M. J. Aiken (*speaker*), **C. E. Wolf**, and **A. Poklis**. "A Rapid Method for the Extraction and Resolution of 25 Common Benzodiazepines and Metabolites in Urine Specimens by Liquid Chromatography Mass Spectrometry (LC/MS)." 2009 Society of Forensic Toxicologists Meeting, October, 2009.

J. Bourland (*presenter*), A. Gesseck, **C. E. Wolf**, and **A. Poklis**. "Evaluation of the Lin-Zhi Immunoassay for the Detection of Buprenorphine and Norbuprenorphine in Urine." 2009 Society of Forensic Toxicologists Meeting, October, 2009.

C.P. Davis, L.A. Chelland, *M.J. Illescas*, **T. Dawson Cruz** (*speaker*). "Traditional Multiplex STR Amplification of Low Template DNA Samples with the Addition of Proofreading Enzymes" National Institute of Justice, Grantees' Meeting, June, 2009.

E.N. Farnham (*presenter*), R.D. Fornshell, T.P. Rohrig. "Developing and Validating a Method to Analyze Components of Bank Dye Packs With HPLC and GC/MS." 2010 American Academy of Forensic Sciences Meeting. February, 2010.

S. Howlett (*presenter*). "Validation of Thin Layer Chromatography With AccuTOF-DART Detection for Forensic Drug Analysis." 2010 American Academy of Forensic Sciences Meeting. February, 2010.

A.E. Jessup (*speaker*), **T. Dawson Cruz**, C. Cupples, M.E. Clement "Comparison of PowerPlex® 16 HS to Minifiler® and Identifiler® Amplification Kits." 2010 American Academy of Forensic Sciences Meeting, February, 2010.

A.E. Jessup (*presenter*), **T. Dawson Cruz**, C. Connon, M. Clement. "Comparison of PowerPlex® 16 GS to Minifiler® and Identifiler® Amplification Kits." 2010 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2010.

L. Lambert, and **M. Miller**. "Weapon Width Determination by the Use of Castoff Bloodstain Patterns." 2010 American Academy of Forensic Sciences Meeting. February, 2010.

D. Mabel (*presenter*), K.L. Moloughney, D. Williams. "Hyperspectral Imaging of Post-Blast Explosives Residues Criminalistics Section." 2010 American Academy of Forensic Sciences Meeting. February, 2010.

M. Miller (*speaker*). "Case Studies in Forensic Science." Chesterfield County High Schools with Forensic Chemistry, Guest Speaker Series: An Evening with the Experts, Manchester High School, September, 2009.

M. Miller (*speaker*). "Case Studies in Forensic Science" VCU Forensic Science Student Club. "Internships" Program Information Session, October, 2009.

**VCU Department of Forensic Science Faculty and Graduate Student
Presentations and Publications**

M. Miller (*speaker*). "Case Studies in Bloodstain Pattern Analysis." Chesterfield County High Schools with Forensic Chemistry, Guest Speaker Series: An Evening with the Experts, Manchester High School, May, 2010.

D. Murphy (*presenter*), **C. Ehrhardt, T. Dawson Cruz**, James Robertson, Jason Bannan. "Phenotypic Differentiation of Bacillus cereus T-strain (BcT) Spores from Alternate Medium Formulations Using Fatty Acid Composition." 2010 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2010

C. Pires (*presenter*). "Physical Match: An Analysis of the Uniqueness of Edges and the Accuracy of Edge Comparisons." Young Forensic Science Forum, 2010 American Academy of Forensic Sciences Meeting. February, 2010.

A. Poklis (*speaker*). "Toxicological/Pathological Considerations in the Investigation of Murders due to Antifreeze" Joint Meeting Mid-Atlantic Association of Forensic Sciences & 5 other Forensic Organizations. October, 2009.

J. L. Poklis (*presenter*), C. C. Thompson, K. A. Long, A. H. Lichman and **A. Poklis**. "Disposition of Cannabinoids in Mice Brain following Marijuana Inhalation Determined by HPLC/MS/MS." 2009 Society of Forensic Toxicologists Meeting, October, 2009.

S. Rodgers (*speaker*). "Evaluation and Validation of the Qiagen® EZ1® Advanced Robotic Workstation for Extraction of DNA from Hair Shafts for Mitochondrial DNA Analysis." Joint Forensic Association Meeting, October, 2009.

M. Sciarretta (*presenter*), *M. Saeed, M.J. Illescas, T. Dawson Cruz*. "Extraction Methods for Recovering Touch DNA With the Use of Optical Enhancement Techniques." 2010 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2010.

H.B. Shacker (*speaker*), J. Jackowski, C. Kantautas, A.A. Morris, J.S. Millman. "A Comparison of a Dual Human/Male Quantitative PCR System and Serological Methods for Screening Sexual Assault Samples." 2010 American Academy of Forensic Sciences Meeting. February, 2010.

E. Tracy (*presenter*), J. L. Poklis, **C. E. Wolf**, and **A. Poklis**. "Analysis of Nicotine and Cotinine in Hair Utilizing High Performance Liquid Chromatography and Tandem Mass Spectrometry." Joint Meeting Mid-Atlantic Association of Forensic Sciences & 5 other Forensic Organizations, October, 2009.

C.E. Wolf (*speaker*). "The Aches and Pains of Pain Management Testing in the Laboratory." Richmond Society for Clinical Laboratory Sciences, September, 2009.