

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

**2006-2007**

**Publications**

**Greenspoon SA**, Sykes KLV, Ban JD, Pollard A, Baisden M, Farr M, Graham N, Collins BL, Green MM, and *Christenson CC*. (2006) Automated PCR Setup for Forensic Casework Samples Using the Normalization Wizard and PCR Setup robotic methods. *Forensic Science International* 164:240-248.

*Silvia ML*, Pomposini DA, Rhee HN, and **Greenspoon SA**. (2006) Somatic Mutation Study of Hair Roots in an Individual. *Profiles in DNA* 9(1):6-7.

**Talks**

*R.C. Bohr (speaker)*, J.D. Ban, and **S.A. Greenspoon**. "Evaluation of the Plexor™ GI Prototype Real-Time PCR Method for the Simultaneous Quantitation of Total Human Autosomal and Male DNA in Forensic Samples." 2007 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2007.

*M.D. Bonnette (speaker)*, *K.L. Brown*, M.B. Trevino, *J.R. Champagne*, and **T. Dawson Cruz**. "Primer and Cycle Number Modifications for the Improvement of STR Analysis after Degenerate Oligonucleotide Primed-PCR." 2007 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2007.

*E.M. Briley (speaker)* and J.V. Goodpaster. "Practical Applications of Pattern Recognition to the Post-Blast Analysis of Black Electrical Tape." 2007 American Academy of Forensic Sciences Meeting, February, 2007.

Buttermore, W, **AL Davis**, and CM Monturo., "Assessment of Comparison Macroscope Optical Resolution Based on Instrument Age". 38<sup>th</sup> Annual Association of Firearm and Tool Mark Examiner's Training Seminar. San Francisco, CA. May, 2007.

*J.R. Champagne (speaker)*, C.A. Lynch, *M.D. Bonnette*, and **T. Dawson Cruz**. "Is Specific Melanin Content in Human Hairs Related to Mitochondrial DNA Typing Success?" 2007 American Academy of Forensic Sciences Meeting, February, 2007.

*J.R. Champagne (speaker)*, C.A. Lynch, *M.D. Bonnette*, and **T. Dawson Cruz**. "Specific Melanin Content in Human Hairs and Mitochondrial DNA Typing Success." 2007 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2007.

*L.K. Claytor (speaker)* and **A. Davis**. "A Validation of Fracture Matching Through the Microscopic Examination of Fractured Surfaces." 2007 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2007.

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*C.M. Cupples (speaker), J.R. Champagne, K.E. Lewis, R.J. Dyer, T. Dawson Cruz.* "Evaluation of the ABI Quantifiler Human DNA Quantification Kit: Optimization of Input DNA for STR Analysis by CE and Determination of a True Zero Value." 2007 American Academy of Forensic Sciences Meeting, February, 2007.

**T. Dawson Cruz (speaker).** "Improving Forensic DNA Analysis: Adaptation of Whole Genome Amplification Methods." University of Richmond, Department of Biology & the Willie Reams Lecture Fund, September, 2006.

**T. Dawson Cruz (speaker).** "Improving Forensic DNA Analysis: Adaptation of Whole Genome Amplification Methods." Virginia Commonwealth University, Molecular Biology & Genetics Seminar Series, November, 2006.

**Davis AL (speaker).** "Taking a Stand on Daubert: Daubert Acceptability Criteria - Relevant Scientific Community & Maintenance of Standards and Controls". 38<sup>th</sup> Annual Association of Firearm and Tool Mark Examiner's Training Seminar. San Francisco, CA, May, 2007.

*A. Gambrel (speaker) and M. Reardon.* "Extraction and Analysis of Vegetable Oils from Fire Debris." 2007 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2007.

**M. Miller (speaker).** "That Thing You Thought You'd Never See." Young Forensic Scientists Forum, 2007 American Academy of Forensic Sciences Meeting, February, 2007.

**M. Miller (speaker).** "Forensic Science." VCU School of Dentistry. April, 2007.

**M.R. Peace, L. Orebaugh, L.D. Tarnai, C.E. Wolf, and A. Poklis (speaker).** "Evaluation of the Lin-Zhi International Cannabinoid Enzyme Immunoassay for the detection of marijuana cannabinoid metabolites in urine." 35th Annual Meeting, Society of Forensic Toxicology, Austin, TX. October, 2006.

**A. Poklis (speaker).** "Drugs associated with drug facilitated rape." 18<sup>th</sup> Annual National Law Enforcement Conference, September, 2006.

**A. Poklis (speaker).** "Historic use of hair, Medical Legal Considerations. In The Application of Hair as an Alternate Matrix for Forensic Applications." 35th Annual Meeting, Society of Forensic Toxicology, October, 2006.

**A. Poklis (speaker).** "Therapeutic Misadventures: Mismanagement of Pain with Excessive Over Prescribing of Opiates." 2007 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2007.

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D.N. Rodier and **T. Dawson Cruz** (*speaker*) “Degenerate Oligonucleotide Primed-PCR: Thermalcycling optimization for forensic DNA analysis.” National Institutes of Justice, 2006 DNA Grantees’ Meeting, June, 2006.

*K.L. Smith* (*speaker*) and K. Musser. “Evaluation of Alternative Methods to 16s rRNA Gene Sequence Analysis for Microbial Forensic Applications.” 2007 American Academy of Forensic Sciences Meeting, February, 2007.

L.D. Tarnai (*speaker*), L. Orebaugh, **M.R. Peace**, **C.E Wolf**, and **A. Poklis**. “Comparison of three enzyme immunoassay for the detection of marijuana cannabinoid metabolites in urine.” 35th Annual Meeting, Society of Forensic Toxicology, October, 2006.

*R. Voiles* (*speaker*), J. Stephens, and G. Laporte. “The Forensic Examination of Documents Using Print Quality Analysis Software.” 2007 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2007.

**C.E. Wolf** (*speaker*), M. Dragoo, and **A. Poklis**. “Incidence of Drugs of Abuse in Meconium Testing Program.” 2007 Mid-Atlantic Association of Forensic Scientists, Meeting, May, 2007.

**C.E. Wolf** (*speaker*) and **A. Poklis**. “Prevalence of drugs in expanded second sample blood specimens from DUID arrest in the Commonwealth of Virginia.” 35th Annual Meeting, Society of Forensic Toxicology, October, 2006.

**C.E. Wolf** (*speaker*) and **A. Poklis**. “Prevalence of marijuana in expanded second sample blood specimens from DUID arrest in the Commonwealth of Virginia. 2001, 2002.” 35th Annual Meeting, Society of Forensic Toxicology, October, 2006.

**Wolf CE** (*speaker*), Dragoo M, and **Poklis A**. “Incidence of Drugs of Abuse in Meconium Testing Program”. Mid-Atlantic Association of Forensic Scientists Annual Meeting. Washington, DC. May, 2007.

**Wolf CE** (*speaker*). “The Chromatographic Detection of Drugs of Abuse in DUI/D Blood Samples, What Drugs are Really Present”. Twenty-Forth Triangle Chromatography Symposium and Instrument Exhibit, Triangle Chromatography Discussion Group of the North Carolina Section of the American Chemical Society. North Carolina State University. Raleigh, NC. May, 2007.

**Wolf CE**, Monteran RJ (*speaker*), and **Poklis A**. “Evaluation of the Lin-Zhi International Opiate Enzyme Immunoassay for the Detection of Opiates in Urine”. American Academy of Forensic Sciences Meeting. Austin, TX. February, 2007.

**Wolf CE**. “The Chromatographic Detection of Drugs of Abuse in Whole Blood”. Richmond Chromatography Discussion Group. Richmond, VA. October, 2006.

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**Posters**

*K.M.S. Carlson (presenter)*, **A.L. Davis**, and J.H. Willmer. "The Effects of Various Fabrics on Muzzle-to-Target Distance Determinations." 2007 American Academy of Forensic Sciences Meeting, February, 2007.

*K.M.S. Carlson (presenter)*, **A.L. Davis**, J.H. Willmer, and **M.T. Miller**. "The Effects of Fabrics on Muzzle-to-Target Distance Determinations." 2007 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2007.

*J.R. Champagne (presenter)*, R.J. Dyer, D.N. Rodier, **T. Dawson Cruz**. "Sequencing of Highly Degraded, Ancient DNA from *Metasequoia glyptostroboides*." 2007 American Academy of Forensic Sciences Meeting, February, 2007.

G. DeLong (*presenter*), **C.E. Wolf**, and **A. Poklis**. "Validation of a Mass Spectrometry Method for Determination of Cannabichromene in Blood and Brain Specimens." 2007 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2007.

W. Garrett (*presenter*), **C.E. Wolf**, R. Backer, and **A. Poklis**. "Evaluation of the Lin-Zhi International Oxycodone Enzyme Immunoassay for the Detection of Oxycodone and Hydrocodone in Urine." 2007 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2007.

**S.A. Greenspoon**, S.H.I. Yeung, *K.R. Johnson (presenter)*, H.N. Rhee, J.D. Ban, A. McGuckian, and C.A. Crouse. "Microfabricated Capillary Array Electrophoresis (uCAE) STR Profiling in a Forensic Laboratory." 2007 American Academy of Forensic Sciences Meeting, February, 2007.

**M.T. Miller (presenter)**. "Microscopic Drying Characteristics of Medium Force Impact Spatter on Textiles." 2007 American Academy of Forensic Sciences Meeting, February, 2007.

A. Owens (*presenter*), **C. Wolf**, and **A. Poklis**. "Extraction Efficiency of Amphetamines and Methylenedioxyamphetamines from Neutral Fat Body." 2007 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2007.

**M.R. Peace**, M.R., L. Orebaugh, L., L.D. Tarnai, L.D., **C. Wolf**, and **A. Poklis**. "Evaluation of the Lin-Zhi International Cannabinoid Enzyme Immunoassay for the detection of marijuana cannabinoid metabolites in urine." 35th Annual Society of Forensic Toxicology Meeting, October, 2006.

**A. Poklis (presenter)**. "Drugs associated with drug facilitated rape." 18<sup>th</sup> Annual National Law Enforcement Conference, September, 2006.

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D.N. Rodier, *M.D. Bonnette*, and **T. Dawson Cruz** (*presenter*). "Low Copy Number Methodologies: A Comparison Study of Low Copy Number PCR and Multiple Displacement Amplification." 2007 American Academy of Forensic Sciences Meeting, February, 2007.

D.N. Rodier, *M.D. Bonnette*, and **T. Dawson Cruz** (*presenter*). "Low Copy Number Methodologies: A Comparison Study of Low Copy Number PCR and Multiple Displacement Amplification." 2007 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2007.

L.D. Tarnai, L. Orebaugh, **M.R. Peace**, M.R., **C.E. Wolf**, and **A. Poklis**. "Comparison of three enzyme immunoassay for the detection of marijuana cannabinoid metabolites in urine." 35th Annual Society of Forensic Toxicology Meeting, October, 2006.

A.A. Tucker (*presenter*), **C. Wolf**, and **A. Poklis**. "Extraction Efficiency of Amphetamines from Blow Fly (*Phormia regina*) Larvae." 2007 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2007.

**C.E. Wolf** and **A. Poklis**. "Prevalence of drugs in expanded second sample blood specimens from DUID arrest in the Commonwealth of Virginia." 35th Annual Society of Forensic Toxicology Meeting, October, 2006.

**C.E. Wolf** and **A. Poklis**. "Prevalence of marijuana in expanded second sample blood specimens from DUID arrest in the Commonwealth of Virginia, 2001, 2002." 35th Annual Society of Forensic Toxicology Meeting, October, 2006.