

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

2008-2009

Publications

Bennett MJ and **Steiner RR**. (2009) Detection of GHB in various drink matrices via AccuTOF-DART. *Journal of Forensic Sciences* 54(2):370-375.

Cupples CM, Champagne JR, Lewis KE, and Dawson Cruz T. (2009) STR profiles from samples with “undetected” or low Quantifiler results. *Journal of Forensic Sciences* 54(1):103-107.

Haglock C, Wolf C, and Poklis A. (2008) Novel method for the determination of Guanfacine in urine by GC/MS. *Journal of Analytical Toxicology* 32:1-3.

Horsman-Hall KM, Karczynski S, Orihuela Y, Davis A, Ban JD, and Greenspoon SA (2009) Development of STR profiles from firearms and fired cartridge cases. *Forensic Science International: Genetics* 3:242-250.

Miller MT. (2008) Eyewitnesses, physical evidence and forensic science: a case study of state of North Carolina v. James Alan Gell. *Victims and Offenders* 3:142-149.

Miller MT. “Chapter 10: Crime Scene Investigation”, in *Forensic Science: An Introduction to Scientific and Investigative Techniques* (3rd Edition). Nordby J. and James S., (Eds.), Boca Raton, FL: CRC Press.

Peace MR. (2008) “Forensic Entomotoxicology,” in *Forensic Chemistry*, edited by Lawrence Koblinsky, Springer Publications.

Steiner RR and Larson RL. (2009) Validation of the AccuTOF-DART for use in forensic drug screening. *Journal of Forensic Sciences* 54(3):617-622.

Schwenk LM and Reardon MR. (2009) Practical aspects of analyzing vegetable oil in fire debris. *Journal of Forensic Sciences* 54(4):874-80.

Tomguney G, Giles K, Glidden DV, Lessard P, Wille H, Tremblay P, Groth DF, Yehiely F, Korth C, Moore RC, Tatzelf J, Rubenstein E, Boucheix C, Stanley P, Lisanti MP, Dwek A, Rudd PM, Sisodia SS, Moskovitz J, Epstein CJ, **Dawson Cruz T**, Kuziel WA, Maeda N, Sap J, Ashe KH, Carlson GA, Tesseur I, Wyss-Coray T, Mucke L, Weisgraber KH, Mahley RW, Cohen FE, and Prusiner SB. (2008) Genes contributing to prion pathogenesis. *Journal of General Virology* 89:1777-1788.

Toothman MH, Kester KM, *Champagne J*, **Dawson Cruz T**, Street S, and Brown BL. (2008) Characterization of human DNA in environmental samples. *Forensic Science International* 178:7-15.

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

Posters and Talks

J. Bourland (*presenter*), C. Secor, **C. E. Wolf**, and **A. Poklis**. "Evaluation of the Lin-Zhi International Immunoassay for the Detection of Methadone in Urine." 2008 Society of Forensic Toxicologists Meeting, October, 2008.

K. Brown, C. Davis, M. Illescas, V. Pavlova and **T. Dawson Cruz**. "dcDOP-PCR for the Analysis of Compromised Mock and Non-Probativ Casework Samples." 2009 American Academy of Forensic Sciences Meeting, February, 2009.

S. Carney (*presenter*), L. T. Moak, **C. E. Wolf**, and **A. Poklis**. "Comparison of Two Enzyme Immunoassays for the Detection of the Cocaine Metabolite, Benzoylcegonine, in Urine." 2008 Society of Forensic Toxicologists Meeting, October, 2008.

D. Cooper. "The Application of Cathodoluminescence to the Analysis and Comparison of Concrete Block Samples." 2009 American Academy of Forensic Sciences Meeting, February, 2009.

C. Davis, L. Chelland, M. Illescas and **T. Dawson Cruz**. "Improving Traditional Multiplex STR Amplification of Low Template DNA samples with the Addition of Proofreading Enzymes." 2009 American Academy of Forensic Sciences Meeting, February, 2009.

C. Davis, L. Chelland, M. Illescas and **T. Dawson Cruz**. "Improving Traditional Multiplex STR Amplification of Low Template DNA samples with the Addition of Proofreading Enzymes." 2009 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2009.

C. Davis, C. Tirado Neris, R. Lopez, **T. Dawson Cruz**. "A case of Amelogenin Y-null: simple primer binding site mutation or unusual genetic anomaly?" 2009 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2009.

T. Dawson Cruz. "dcDOP-PCR for Improved STR Analysis from Low Copy Number DNA Evidence." Virginia Commonwealth University, Department of Forensic Science Seminar Series, March, 2009.

G. DeLong (*presenter*), **C.E. Wolf**, **A. Poklis**, and A. Lichtman. "Cannabichromene Potentiates the Antinociceptive Effect of Δ^9 -Tetrahydrocannabinol." 2008 Society of Forensic Toxicologists Meeting, October, 2008.

D. Diekema, Y. Orihuela, S. Karczynski, K. Horsman-Hall, S. Greenspoon, A. Davis, B. Jenkins, and J. Ban. "The Effect of PCR Additives and Enhancement Techniques on DNA Recovery from Fired Cartridge Cases and Compromised Samples." 2009 American Academy of Forensic Sciences Meeting, February, 2009.

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

L. Durham and **M. Peace**. "History of Forensic Toxicology – A Prospectus." Chesapeake Bay Division-International Association for Identification Meeting, April, 2009.

L. Durham and **M. Peace**. "Arsenic and Old Lace: A Forensic Toxicology Prospectus." VCU Symposium for Undergraduate Research and Creativity, May, 2009.

C. Haglock (presenter), **C. E. Wolf**, and **A. Poklis**. "A Novel Method for the Determination of Guanfacine in Urine by GC/MS." 2008 Society of Forensic Toxicologists Meeting, October, 2008.

M. Hite, N. Unger, **T. Dawson Cruz**, **S. Seashols**. "Validation of a Real-Time, Alu-based PCR Method with SYBR Green Detection." 2009 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2009.

R. Hibbard and M. Reardon. "Factors Affecting the Comparison of Lubricating Oils." 2009 American Academy of Forensic Sciences Meeting, February, 2009.

M. Illescas, C. Tirado Neris, F. Fernandez, **T. Dawson Cruz**, J. Orengo and J. Bloom. "Internal Validation of Quantifiler® Duo DNA Quantification Kit and AmpFISTR® YFiler™ PCR Amplification Kit." 19th International Symposium on Human Identification, October, 2008.

M. Illescas, C. Tirado Neris, F. Fernandez, **T. Dawson Cruz**, J. Orengo and J. Bloom. "Internal Validation of Quantifiler® Duo DNA Quantification Kit and AmpFISTR® YFiler™ PCR Amplification Kit." 2009 American Academy of Forensic Sciences Meeting, February, 2009.

M. Illescas, C. Tirado Neris, F. Fernandez, **T. Dawson Cruz**, J. Orengo and J. Bloom. "Internal Validation of Quantifiler® Duo DNA Quantification Kit and AmpFISTR® YFiler™ PCR Amplification Kit." 2009 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2009.

G. Jones and G. Massonnet. "Raman Spectroscopy: A Solution for the Analysis of Light Colored Fibers." 2009 American Academy of Forensic Sciences Meeting, February, 2009.

S. Kester-Florin (presenter), **C. Wolf**, and **A. Poklis**. "Development and Validation of a LC-MS Method for the Determination of Guanfacine in Urine." 2009 American Academy of Forensic Sciences Meeting, February, 2009.

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, October, 2008.

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

M. Miller (*speaker*). "Forensic Science and CSI; Reel v. Real." Nature & Physical Sciences Peer Group Meetings of the Virginia Community College system, November, 2009.

M. Miller (*speaker*). "Case Studies in Bloodstain Pattern Analysis." Chesterfield County High Schools with Forensic Chemistry, Guest Speaker Series: An Evening with the Expert, March, 2009.

M. Miller (*speaker*). "A Career in Forensic Science." The Women Chemist Committee of the Virginia State Chapter of the American Chemical Society, March, 2009.

K. Moore and **M. Peace**. "Urine – or You're Not – A History of Forensic Urine Drug Testing." Chesapeake Bay Division-International Association for Identification Meeting, April, 2009.

K. Moore and **M. Peace**. "Urine Drug Testing." VCU Symposium for Undergraduate Research and Creativity, May, 2009.

C. *Muse*, K. Horsman-Hall, L. Schiermeier-Wood, B. Jenkins, and **S. Greenspoon**. "Recovery and Visualization of Touch DNA." 2009 American Academy of Forensic Sciences Meeting, February, 2009.

M. Olvera and C. Winar. "Comparison of Differential Processing Techniques for Development of Latent Prints on Porous Substrates." 2009 American Academy of Forensic Sciences Meeting, February, 2009.

M. Peace. "Forensic Toxicology: Research in Toxicology." 2008 Chesapeake Bay Division-International Association for Identification Meeting, November, 2008.

S. Seashols. "An Update on Forensic Serology Techniques." 2009 Mid-Atlantic Association of Forensic Scientists Meeting, May 2009.

R. Steiner. "Applications of the AccuTOF-DART system for the forensic analysis of drugs of abuse", ACD/Labs Mass Spectrometry Software Symposium at ASMS Conference, May, 2009.

T. Wright. "Validation of the Quantifiler® Duo DNA Quantification Kit." 2009 American Academy of Forensic Sciences Meeting, February, 2009.

Workshops

T. Dawson Cruz. "Forensic Educators Workshop." 2009 Mid-Atlantic Association of Forensic Scientists, May, 2009.

T. Dawson Cruz. "Advanced Concepts in Forensic DNA Workshop." 2009 Mid-Atlantic

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Association of Forensic Scientists Meeting, May, 2009.

T. Dawson Cruz. "Biology Section Workshop." 2009 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2009.

M. Peace. "Basics of Forensic Toxicology." 2008 Society of Forensic Toxicologists Meeting, October, 2009.

M. Peace. "Forensic Toxicology." 2009 CBD-IAI Semi-Annual Meeting.
S. Seashols. (Co-Organizer) "Forensic DNA Analysis Workshop." 2009 Mid-Atlantic Association of Forensic Scientists, May, 2009.

A. Poklis. "Definitions and Laboratory calculations". *In Basics in Forensic Toxicology Workshop.* 2008 Society of Forensic Toxicologists Meeting, October, 2008.

A. Poklis. "Pathophysiology of Toxicants". *In Basics in Forensic Toxicology Workshop.* 2008 Society of Forensic Toxicologists Meeting, October, 2008.

R. Steiner. "Forensic Applications of DART Workshop", Ames Laboratory/MFRC/NFSTC, August, 2008.