

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

2010-2011

Publications

Boggs CL and **Poklis A.** (2011) GHB (gamma-hydroxybutyric acid). American Society of Clinical Pathologists Check Sample. Clinical Chemistry[CC-398] 51(5):97-109.

Bonnette MD, Pavlova VR, Rodier DN, Thompson LP, Boone EL, *Brown KL*, Meyer KM, Trevino MB, *Champagne JR*, 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.

Boyd S, Bertino MF, **Seashols SJ.** (2011) Raman spectroscopy of blood samples for forensic applications. Forensic Science International 208(1-3):124-8.

DeLong GT, **Wolf CE**, **Poklis A**, and Lichtman AH. (2010) Pharmacological evaluation of the natural constituent of Cannabis sativa, cannabichromene and its modulation by $\Delta(9)$ -tetrahydrocannabinol. Drug and Alcohol Dependence 112(1-2):126-33.

DeLong GT, **Wolf CE**, **Poklis A**, and Lichtman AH. (2011) Cannabichromene and tetrahydrocannabinol determination in blood and brain by gas chromatography mass spectrometry. Journal of Analytical Toxicology 35:496.

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

Grubb JC, Horsman KM, Sykes KLV, *Schlisserman RA*, *Covert VM*, Rhee HN, Ban JD and **Greenspoon SA.** (2010) Implementation and validation of the Teleshake Unit for DNA IQ™ robotic extraction and development of a large volume DNA IQ™ method. Journal of Forensic Sciences 55(3):706-14.

Kester KM, Toothman MH, Brown BL, Street S, and **Dawson Cruz T.** (2010) Recovery of Environmental Human DNA by Insects. Journal of Forensic Sciences 55(6):1543-51.

Poklis JL, Guckert B, **Wolf CE**, and **Poklis A.** (2011) Evaluation of a new phencyclidine enzyme immunoassay for the detection of phencyclidine in urine with confirmation by high-performance liquid chromatography-tandem mass spectrometry. Journal of Analytical Toxicology 35(7):481-6.

Pearson J, Saady JJ, Fierro M, **Wolf C**, and **Poklis A.** (2011) An unusual case of homicide by chronic methanol poisoning. Forensic Toxicology DOI: 10.1007/s11419-011-0118-1.

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Pfaff AM and **Steiner RR**. (2011) Development and validation of AccuTOF-DART as a screening method for analysis of bank security device and pepper spray components. *Forensic Science International* 206:62-70.

Steiner RR. (2010) A rapid technique for the confirmation of iodine and red phosphorus using direct analysis in real time and accurate mass spectrometry. *Microgram Journal* 7(1):3-6.

Wood JL and **Steiner RR**. (2011) Purification of pharmaceutical preparations using thin-layer chromatography to obtain mass spectra with Direct Analysis in Real Time and accurate mass spectrometry. *Drug Testing and Analysis* 3(6):345-351.

Talks

D. Amira (*speaker*), J. L. Poklis, L. E. Wise, J. M. Wiebelhaus, and **A. Poklis**. "Disposition of CB1 Agonist JWH-018 in the Mouse following Inhalation of Increasing Doses of the Herbal Incense 'Buzz.'" 2011 Mid-Atlantic Association of Forensic Sciences Meeting, May, 2011.

R. Berlin (speaker), *J. Barker*, *J.T.Thomas*, E. Boone, B. Brown, and **T. Dawson Cruz**. "Method Development for Analyzing SNPs associated with Stature". 2011 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2011.

S. Boyd (*speaker*), **S.J. Seashols**, and M.F. Bertino. "The Utility of Raman Spectroscopy of Blood Samples for Forensic Applications." 2011 American Academy of Forensic Sciences Meeting, February, 2011.

J. Bush (speaker) "Optimization of DNA Extraction Buffer for Use in Conjunction with DNA IQ™". 2011 American Academy of Forensic Sciences Meeting, February, 2011.

T. Dawson Cruz (speaker). "Academic Research & the Forensic Science Practitioner." 2011 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2011.

M.J. Illescas, H.E. Dean, *C.P. Davis*, and **T. Dawson Cruz (speaker)**. "ALS Detection and Collection of Touch DNA from Porous & Nonporous Substrates." 2011 American Academy of Forensic Sciences Meeting, February, 2011.

J. Lucyshyn (presenter), S. Dineen, **T. Dawson Cruz**, and R. Craig, J. Robertson. "Optimization & Application of DNA Repair Enzymes to Damaged DNA for Short Tandem Repeat Analysis." 2011 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2011.

Miller, M.T (speaker), and *Shacker, H*. "Is FEPAC Accreditation Opening the Employment Door?" 2011 Annual American Academy of Forensic Sciences Meeting,

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February, 2011.

Poklis, A (*speaker*). "The Winding Road of Designer Drugs: A History. *In Workshop e Cannabimimetics: The 'Spice', 'K2' and Other 'Herbal Incense Blends' Phenomena.*" 2011 Mid-Atlantic Association of Forensic Sciences Meeting, May, 2011.

J.D. Roper-Miller, P.R. Stout, *Katherine Moore* (*speaker*), **R. Steiner**, **M. Peace**, S. MacDonald, J.M. Mitchell, and M.R. Baylor. "Development of a Web-accessible Cheminformatic Spectral Database for Shared Utilization by Forensic Laboratories." ACD/Labs North American User's Meeting, April, 2011.

J.D. Roper-Miller, P.R. Stout, *K. Moore* (*speaker*), **R. Steiner**, **M. Peace**, J.M. Mitchell, and M.R. Baylor. "Development of a Web-accessible Cheminformatic Spectral Database for Shared Utilization by Forensic Laboratories." 2011 American Academy of Forensic Sciences Meeting, February, 2011.

J.D. Roper-Miller, P.R. Stout, *K. Moore*, S. MacDonald (*speaker*), **R. Steiner**, J.M. Mitchell, and M.R. Baylor. "Overview of a Web-accessible Cheminformatic Spectral Database for Shared Utilization by Forensic Laboratories." 2010 Canadian Society of Forensic Science Meeting, November, 2010.

J.D. Roper-Miller, P.R. Stout, *K. Moore* (*speaker*), **R. Steiner**, J.M. Mitchell, and M.R. Baylor. "Development of a Web-accessible Cheminformatic Spectral Database for Shared Utilization by Forensic Laboratories." 2010 Society of Forensic Toxicologists Meeting, October, 2010.

M.J. Sciarretta, *M. Saeed*, *M.J. Illescas*, and **T. Dawson Cruz** (*speaker*). "Extraction Methods for Recovering Touch DNA." 2011 American Academy of Forensic Sciences Meeting, February, 2011.

S.J. Seashols (*speaker*). "Forensic Training & Development in Iraq." 2011 American Academy of Forensic Sciences Meeting, February, 2011.

S.J. Seashols (*speaker*). "Forensic Training & Development in Iraq". Virginia Commonwealth University Forensic Science Student Club, November, 2010.

S.J. Seashols (*speaker*). "Forensic Training & Development in Iraq." Current and Future Advances in Human Identification, September, 2010.

J. Thomas (*speaker*) and **T. Dawson Cruz**. "Evaluation of the sensitivity, reproducibility, inhibition detection and STR amplification input using the Qiagen Investigator Quantiplex kit." 2011 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2011.

Posters

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D. Amira (*presenter*), J. L. Poklis, L. E. Wise, J. M. Wiebelhaus, and **A. Poklis**. "Disposition of CB1 Agonist JWH-018 in the Mouse following Inhalation of the Herbal Incense 'Buzz.'" 2011 Committee on Problems of Drug Dependence Meeting, June, 2011.

J. Bush (presenter) "Optimization of DNA Extraction Buffer for Use in Conjunction with DNA IQ™". 21st International Symposium on Human Identification, October, 2010.

S.E. Clark (presenter), J.L. Poklis, **M. R. Peace**, and **A. Poklis**. "Evaluation of Two Control Preparation for Effective Monitoring of Washing Procedures Used in the Decontamination of Hair Samples for Cocaine and its Metabolites." 2011 American Academy of Forensic Sciences Meeting, February, 2011.

H.D. Cross (presenter) and **S.J. Seashols**. "A Comparison of Chemical Enhancements for the Detection of Latent Blood." 2011 American Academy of Forensic Sciences Meeting, February, 2011.

P. N. Dooley (*presenter*), **C. E. Wolf** and **A. Poklis**. "Improved Method for the Analysis of Tramadol and its N and O-desmethyl Metabolites in Urine by GC/MS." 2010 Society of Forensic Toxicologists Meeting, October, 2010.

B. Haggerty (presenter), J.L. Poklis, **C.E. Wolf**, L.E. Wise, J.M. Wiebelhaus, A.H. Lichtman, and **A. Poklis**. "Forensic Investigation of Herbal Incense Products Containing Cannabimimetic Compounds". American Association of Forensic Scientists Young Forensic Scientists Forum, February, 2011.

B. Haggerty (presenter), J.L. Poklis, **C.E. Wolf**, L.E. Wise, J.M. Wiebelhaus, A.H. Lichtman, and **A. Poklis**. "Detection of Cannabimimetic Compounds in Mice Blood after Exposure to 'Buzz' Smoke". 2010 Society of Forensic Toxicologists Meeting. October, 2010.

J. Lucyshyn (presenter), S. Dineen, **T. Dawson Cruz**, and R. Craig, J. Robertson. "Optimization & Application of DNA Repair Enzymes to Damaged DNA for Short Tandem Repeat Analysis." 2011 American Academy of Forensic Sciences Meeting, February, 2011.

N. Moore (*presenter*), J L. Poklis, **C. E. Wolf**, and **A. Poklis**. "Determination of Buprenorphine and Norbuprenorphine Benzoyl Chloride Derivatives in Urine by HPLC/MS/MS." 2010 Society of Forensic Toxicologists Meeting, October, 2010.

C. Plese (presenter), D. Exline, and S. Nedley. "Hyperspectral Imaging as a Method of Detecting and Visualizing Ignitable Liquid Residues". 2011 Trace Evidence Symposium, August, 2011.

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M.F. Sabato (*presenter*), T. Annang, J. Juusola, V. Mas, D. Wilkinson, **T. Dawson Cruz**, and A. Ferreira-Gonzalez. "Evaluation of DNA Extraction Methods for Formalin-fixed, Paraffin-embedded Tissue and their Impact on Whole Genome Amplification & Downstream Analysis." 2010 Association for Molecular Pathology Meeting, November, 2010.

M.J. Sciarretta, R.M. Berlin (*presenter*), S.N. Smith, and **T. Dawson Cruz**. "Evaluation of MCLAB Buffer and NanoPOP-4 as Alternative Consumables for Applied Biosystems Capillary Electrophoresis." 2011 American Academy of Forensic Sciences Meeting, February, 2011.

J. Thomas (*presenter*), A. Ackroyd-Isales, **S. Greenspoon**, and B. Jenkins. "Optimization of the Normalization and STR Setup for the Biomek NXp." 14th Annual VCU Graduate Student Research Symposium and Exhibit, April, 2011.

J. Thomas (*presenter*), A. Ackroyd-Isales, **S. Greenspoon**, and B. Jenkins. "Optimization of the Normalization and STR Setup for the Biomek NXp." 21st International Symposium on Human Identification, October, 2010.

M. L. Wolfe* (*presenter*), **C.E. Wolf**, J. L. Poklis, and **A. Poklis**. "Analysis of Tricyclic Antidepressants in Urine by LC/MS/MS." 2010 Society of Forensic Toxicologists Meeting, October, 2010.