

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

Forensic Science Graduate Students are shown in italics and Faculty in bold

### **2005-2006**

#### **Publications**

Backer, R. C., Monforte, J. R. and **Poklis, A.** (2005) Evaluation of the DRI<sup>â</sup> Oxycodone Immunoassay for the detection of oxycodone In urine. *Journal of Analytical Toxicology* 29: 675-677.

*Chaklos DL.* and **Ann L. Davis.** Visualization of Gunpowder Residue Patterns Using a Digital Infrared Camera and Optical Filters. *AFTE Journal* 37(2):117, 2005.

*Coy K.L., K.E. Lewis,* A. Fulmer, A. Hudson, and **T. Dawson Cruz.** (2005) Obtaining typable DNA from bloodstains that serologically test negative. *Journal of Forensic Identification* 55(5): 633-643.

**Dawson Cruz, T.** (2005) Chapter in *Molecular Diagnostics For the Clinical Laboratorian*, 2<sup>nd</sup> ed., Humana Press. Chapter 40, "Molecular Analysis for Forensic Casework and Parentage Testing." .

Edinboro, L.E., Backer, R.C. and **Poklis, A.** (2005) Direct analysis of opiates in urine by liquid chromatography/mass spectrometry/mass spectrometry. *Journal of Analytical Toxicology* 29: 704-710, 2005.

Thorington RW, *Schennum CE,* Pappas LA, Pitassy D. (2005) The difficulties of identifying flying squirrels (sciuridae: Pteromyini) in the fossil record. *Journal of Vertebrate Paleontology* 25(4):950-961.

**Wolf, C.** and **Poklis, A.** (2005) A rapid HPLC procedure for analysis of analgesic pharmaceutical mixtures for quality assurance and drug diversion testing. *J.Anal. Toxicol.* 29: 711-714.

#### **Talks**

*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." 2006 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2006.

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*K.E. Lewis (speaker)*, K.L.V. Sykes, **S.A. Greenspoon**, *K.L. Coy*, *C.M. Cupples*, D.N. Rodier, **T. Dawson Cruz**. "Comparative Analysis of Human-Specific DNA Quantitation Techniques." 2006 American Academy of Forensic Sciences Meeting, February, 2006.

**M. Miller**. "The Presence of Forensic Science in Criminal Justice.", a round-table at Academy of Criminal Justice Sciences, 43<sup>rd</sup> Annual Meeting, March, 2006.

**M. Miller**. "Forensic Science is not CSI!" Chesapeake Bay Science Symposium, VCU, March, 2006.

**M. Miller**. "Forensic Crime Scene Investigation." New Hampshire Public Defenders' Office, Loon Mountain, NH, May, 2006.

*Perusse K (speaker)*, Delaney C, **Wolf C**, **Poklis A**, and Pearson J. "Correlation of Tetrahydrocannabinol in Evidentiary and Second Sample DUI/D Blood Samples". Mid-Atlantic Association of Forensic Scientists 2006 Annual Meeting. Richmond, VA. May 2006.

**A. Poklis**. "Investigation of Murder by Poison." 17<sup>th</sup> Annual National Law Enforcement Conference, September, 2005.

**A. Poklis**. "Forensic Toxicology in the investigation of drug facilitated rape. " 17<sup>th</sup> Annual National Law Enforcement Conference, September, 2005.

**A. Poklis**. "Application of Pharmacokinetics in Postmortem Toxicology." *in Postmortem Interpretation Workshop*, 34th Annual Meeting, Society of Forensic Toxicologist, Oct., 2005.

**A. Poklis** and Levine, B. A. "Fatal Therapeutic Misadventure: Mismanagement of Pain With Excessive Over Prescribing of Opiate Drugs." 34th Annual Meeting, Society of Forensic Toxicologists, October, 2005.

**A. Poklis**. "Introduction to the Postmortem Blood Drug Screen." *in The Postmortem Blood Drug Screen Workshop*, 34th Annual Meeting, Society of Forensic Toxicologists, October, 2005.

**A. Poklis**. "Evaluation of Analytical Toxicology Test Data in Criminal Prosecutions and Civil Litigation." 2006 American Academy of Forensic Sciences Meeting, February, 2006.

**A. Poklis**. "A case of murder by poison: Misinformation from a television forensic show helped catch a murderer." 2006 Mid-Atlantic Assoc of Forensic Scientists Meeting, May, 2006.

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J.L. Poklis, Winecker, R.E. and **Poklis, A.** “Blood and Liver Olanzapine Findings in Fourteen Postmortem Cases.” 34th Annual Meeting, Society of Forensic Toxicologists October, 2005.

D. N. Rodier (*speaker*), K.M. Meyer, *M.D. Bonnette*, **T. Dawson Cruz.** “Degenerate Oligonucleotide Primed-PCR: Thermalcycling revisions for forensic DNA analysis.” 2006 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2006.

DN Rodier, KM Meyer, *MD Bonnette*, **T Dawson Cruz** (*speaker*). “[Degenerate Oligonucleotide Primed-PCR: Thermalcycling Optimization for forensic DNA analysis](#)”. National Institutes of Justice, DNA Grantees’ Meeting. Washington, DC. June, 2006.

**R. Steiner** and J. Pearson. “Case Studies in Homicidal Poisonings”, ASMS Sanibel Conference. Clearwater Beach, FL. January 2005.

**Wolf CE** and **Poklis A.** “Evaluation of FPIA & Emit Reagents for Screening Whole Blood Samples for Marijuana”. Society of Forensic Toxicologists Meeting. Nashville, TN. October, 2005.

**Wolf CE** and **Poklis A.** “The Prevalence of Alcohol and Drugs in DUI/DUID Second Samples in Virginia, 1990 – 2002”. Mid-Atlantic Association of Forensic Scientists Annual Meeting. Richmond, VA. May, 2006.

### Workshops

**Wolf CE.** “Operations of a Forensic Toxicology Laboratory”. Shimadzu Scientific Instruments, Inc. Columbia, MD. April, 2006.

### Posters

*C. Hernandez.* “Extraction of Epithelial Cell DAN from Contaminated Substrates Using the DNA IQ System.” 2006 Mid-Atlantic Association of Forensic Scientists Meeting, May, 2006.

A.-P. Hsia, A. Liu, S. Baluch, M. Wilkening, A. Eggleston, H. Dooner, **W. Eggleston**, P. Schnable, and C. Weil. “Mutations Affecting Meiotic Recombination Rate in Maize.” 48<sup>th</sup> Annual Maize Genetics Conference, March, 2006.

*M.L. Silvia*, D.A. Pomposini, H.N. Rhee, **S.A. Greenspoon.** “Somatic Mutation Study of Hair Roots in an Individual.” Promega Human Identity Meeting. 2006.

L.P. Thompson, D.N. Rodier, *K.E. Lewis*, K.M. Meyer, **T. Dawson Cruz.** “*Taq*/Proofreading enzyme combinations: A method to enhance Degenerate

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Oligonucleotide Primed- PCR results in Forensic DNA analysis.” 2006 American Academy of Forensic Sciences Meeting, February 2006.