

# SAM HOUSTON STATE UNIVERSITY MSFS PUBLICATIONS

*Students in the MSFS Program contribute to the knowledge base of forensic science and produce research directed at improving the practice of forensic science.*

*Students demonstrate the integration of knowledge, skills and abilities through independent research and scholarly inquiry.*

# 2014

Armstrong TA, Boutwell BB, Flores S, Symonds M, Keller S, Gangitano DA. **Monoamine Oxidase A Genotype, Childhood Adversity, and Criminal Behavior In An Incarcerated Sample.** *Psychiatr Genet.* 24(4):164-71 (Aug, 2014).

Sarah Bahlmann, Sheree Hughes-Stamm, and David Gangitano. **Development and evaluation of a rapid PCR method for the PowerPlex®S5 system for forensic DNA profiling.** *Legal Medicine,* 16(4), 227-233 (July, 2014).

Kaitlin Main, Stacie Gray, Kevin Derr, and Joan Bytheway. **Differences in Skeletal Pathology as Seen in an Individual with Quadriplegia Secondary to Duchenne Muscular Dystrophy.** American Academy of Forensic Sciences Annual Meeting, Feb 2014, Seattle, WA.

Li M, Lu J, Qi J, Zhao F, Zeng J, Yu JCC, and Shih WC. **Stamping surface-enhanced Raman spectroscopy for label-free, multiplexed, molecular sensing and imaging.** *Journal of Biomedical Optics,* May, 2014; 19(5): 050501-3.

Zeng, J.; Qi, J.; Bai, F.; Yu, J.C.C.; Shih, W.C. **Analysis of ethyl and methyl centralite vibrational spectra for mapping organic gunshot residues,** *Analyst.* May, 2014, 139, 4270-4278.

Sarah Kerrigan, Ashley Mullings, Breanna Jatzlau, Francisco Ortiz, Laura Perrella, Sarah Martin, and Kelsie Bryand. **Psychostimulants in Urine by Liquid Chromatography-Tandem Mass Spectrometry.** *Journal of Forensic Sciences,* 59(1), 175-183 (January, 2014).

James White, Sarah Bahlmann, Sheree Hughes-Stamm, and David Gangitano. **Development and Evaluation of a Rapid PCR Method for a Commercially Available MiniSTR Kit for Human Identification.** American Academy of Forensic Sciences Annual Meeting, Feb 2014, Seattle, WA.

Cassandra Cavazos, Michael Manes, and Monica Brady Mellon. **Benefits of Deconvolution Reporting Software in Forensic Toxicology.** American Academy of Forensic Sciences Annual Meeting, Feb 2014, Seattle, WA.

Elizabeth Rahman and Sheree Hughes-Stamm. **Preservation of Human Tissue Samples in Tropical Climates.** American Academy of Forensic Sciences Annual Meeting, Feb 2014, Seattle, WA.

Sarah Kerrigan and Paige Bella. **Stability of the Synthetic Cathinones: Implications for Forensic Toxicology.** American Academy of Forensic Sciences Annual Meeting, Feb 2014, Seattle, WA.

Tiffany McCann and Jorn Yu. **Optimization of Headspace Solid Phase Microextraction Coupled with Gas Chromatography/Mass Spectrometry for Marijuana Profiling.** American Academy of Forensic Sciences Annual Meeting, Feb 2014, Seattle, WA.

Cassandra Schield, Cassandra Campelli, Bruce Budowle, Craig Echt, and David Gangitano. **Forensic Botany: Molecular Identification of Pinus Pollen Grains in Surface Soil.** American Academy of Forensic Sciences Annual Meeting, Feb 2014, Seattle, WA.

Peyton Gandy, Mary Symonds, Shahida Flores, Todd Armstrong, Matthew Nobles, Brian Boutwell, and David Gangitano. **Genetic Study of DNA polymorphisms in Androgen Receptor, Serotonin Transporter and Monoamine-oxidase Genes in an Inmate Sample.** American Academy of Forensic Sciences Annual Meeting, Feb 2014, Seattle, WA.

Joseph Cox and Jeffrey Walterscheid. **Determination of GHB in Blood and Urine Using GC-MS/MS Without Derivatization.** American Academy of Forensic Sciences Annual Meeting, Feb 2014, Seattle, WA.

Rebecca McCullough, Yongyi, Jiang, and Warren Samms. **Differentiation of Regioisomeric Alpha-methyltryptamine (AMT; 3- (2-aminopropyl) indole) and 5-IT (5-(2-aminopropyl) indole).** American Academy of Forensic Sciences Annual Meeting, Feb 2014, Seattle, WA.

Rebecca McCullough, Yongyi Jiang, and Warren Samms. **Differentiation and Thermal Degradation of Synthetic Cathinone Regioisomers During Gas Chromatography/Mass Spectrometry Analysis.** American Academy of Forensic Sciences Annual Meeting, Feb 2014, Seattle, WA.

Tracy Gastineau, Justin Schwane, and Elizabeth Todd. **Two Month Stability and Distribution and Study of the Benzodiazepine Phenazepam.** American Academy of Forensic Sciences Annual Meeting, Feb 2014, Seattle, WA.

Kourtnei Woods, Sheree Hughes-Stamm, David Gangitano, and Frauke Warnke. **An Improved Method of DNA Extraction from Environmentally Challenged Teeth.** American Academy of Forensic Sciences Annual Meeting, Feb 2014, Seattle, WA.

# 2013

Sheree Hughes-Stamm, Mark Barash, Kelly Grisedale, and Angela van Daal. **Initial evaluation of a 96-plex GoldenGate® Genotyping SNP assay with suboptimal and whole genome amplified samples.** Journal of Forensic Investigation. 1(1):8-16, 27, September, 2013.

Pablo Nosedá, Michael Hernandez, Britany Gonzalez, Sheree Hughes-Stamm, and David Gangitano. **Genetic Study of Three Closely Linked X chromosome STR Markers in an Argentinian Population.** Journal of Forensic Investigation. 1(2):4, 24, October, 2013.

Sarah Kerrigan, Monica Brady Mellon, and Paige Hinners. **Detection of Phenazepam in Impaired Driving.** Journal of Analytical Toxicology, 37(8), 552-558 (10, September, 2013).

Barry Logan, Kayla Lowrie, Jennifer Turri, Jillian Yeakel, Jennifer Limoges, Amy Miles, Colleen Scarneo, Sarah Kerrigan, and Laurel Farrell. **Recommendations for Toxicological Investigation of Drug Impaired Driving and Motor Vehicle Fatalities.** Journal of Analytical Toxicology, 37(8), 605-610 (13, August, 2013).

Patricia Contreras, Stephen Houck, William Davis, and Jorn Yu. **Pyrolysis Products of Linear Alkylbenzenes - Implications in Fire Debris Analysis.** Journal of Forensic Science, 58(1):210-6, 2013.

Darrel Stein and Jorn C.C. Yu. **The use of near-infrared photography to image fired bullets and cartridge cases.** Journal of Forensic Science, 58(5):1330-5, September, 2013

Pablo Nosedá, Jaclyn Kenline, Samantha Manning, and David Gangitano. **Population data for DXS6800, DXS101 and DXS8377 loci from Buenos Aires (Argentina).** Journal of Forensic Legal Medicine. Jul;20(5):522-4, 2013.

Joan Bytheway and Stephen Pustilnik. **Determining Postmortem Interval using Glycoproteinous Adhesion Deposits by Balanus improvisus on Human Skeletal and Dental Remains.** Journal of Forensic Science, 2013 Jan;58(1):200-5.

Joe Treviño, Darren Williams, and Joan Bytheway. **Quantification of Color Changes in Human Decomposition Using Image Processing Software.** American Academy of Forensic Sciences Annual Meeting, Feb 2013, Washington DC.

Sarah Sims, Chris Heartsill, and Elizabeth Todd. **A Proposed Means for the Detection and Quantification of Bath Salts from Blood.** American Academy of Forensic Sciences Annual Meeting, Feb 2013, Washington DC.

Cassandra Campelli, Jennifer Sycalik, Christopher Randle, Craig Echt, Bruce Budowle, and David Gangitano. **Using *Pinus* STR Profiling to Discriminate Pollen Sources at the Regional Level: A Potential Tool for Forensic Investigations.** American Academy of Forensic Sciences Annual Meeting, Feb 2013, Washington DC.

Sarah Bahlmann, Ashleigh Faris, Sibyl Bucheli, and David Gangitano. **A Molecular Approach: Species Composition of the Maggot Mass in Human Cadavers in the Pineywoods Ecoregion of Southeastern Texas.** American Academy of Forensic Sciences Annual Meeting, Feb 2013, Washington DC.

Paige Hinnners, Monica Brady Mellon, and Sarah Kerrigan. **Phenazepam Impairment: A Case Report.** American Academy of Forensic Sciences Annual Meeting, Feb 2013, Washington DC.

# 2012

Sarah Martin and Sarah Kerrigan. **Analysis of Psychedelic Phenethylamines in Blood by LC/MS/MS.** Society of Forensic Toxicologists Annual Meeting, Jul 2012, Boston, MA.

Kayla Ellefsen and Sarah Kerrigan. **Detection of Beta-Keto Amphetamines in Urine by GC/MS.** Society of Forensic Toxicologists Annual Meeting, Jul 2012, Boston, MA.

MacKenzie Willis and Sarah Kerrigan. **Determination of Endogenous Concentrations of GHB in Human Hair by LCMSMS.** Society of Forensic Toxicologists Annual Meeting, Jul 2012, Boston, MA.

Jorn Yu, Sarah Martin, J. Nasr, Katelyn Stafford, David Thompson, and Ilona Petrikovics. **LC-MS/MS analysis of 2-aminothiazoline-4-carboxylic acid as a forensic biomarker for cyanide poisoning.** World J Methodol. 2012, 2(5): 33-41.

Petrikovics, I., Yu, J.C.C., Thompson, D., Jayanna, P., Logue, B., Nasr, J., Bhandar, R., Baskin, S., and Rockwood, G. **Plasma Persistence of 2-Aminothiazoline-4-Carboxylic Acid in Rat System Determined by Liquid Chromatography Tandem Mass Spectrometry.** Journal of Chromatography B 2012, 891-892, 81–84.

Petrikovics, I., Wales, M., Budai, M., Yu, J.C.C., and Szilasi, M. **Nano-Intercalated Organophosphorus Hydrolyzing Enzymes in Organophosphorus Antagonis.** AAPS PharmSciTech 2012, 13(1), 112-117.

Patricia Contreras, Stephen Houck, William Davis, and Jorn Yu. **Pyrolysis Products of Linear Alkylbenzenes - Implications in Fire Debris Analysis.** Journal of Forensic Science, Article first published online: 18 May 2012, DOI: 10.1111/j.1556-4029.2012.02194.x

JA Aitkenhead-Peterson, CG Owings, MB Alexander, N Larison, and JA Bytheway. **Mapping the extent of human cadaver decomposition islands with soil chemistry.** For Sci Int 216(1-3):127-34 (2012).

Angela Rippley, Nicole Larison, Kathryn Moss, Jeffrey Kelly, and Joan Bytheway. **Scavenging Behavior of Lynx rufus on Human Remains**

**during the Winter Months of Southeast Texas.** J Forensic Sci. 57(3):699-705 (2012).

Joan Bytheway and Nicole Larison. **An Atypical Burn Pattern Associated with Forensically Signification Human Remains.** American Academy of Forensic Sciences Annual Meeting, Feb 2012, Atlanta, GA.

Jaclyn Kenline, Lauren Bouse, Pablo Nosedo, and David Gangitano. **Comparison of Genetic Markers and Developmental Validation of the Multicopy LINE-1 Marker for Use in a Sensitive Real-Time Quantification Method.** American Academy of Forensic Sciences Annual Meeting, Feb 2012, Atlanta, GA.

Yuanwei Gao, Seongshin Gwak, and Jorn Yu. **Preparation of Molecularly Imprinted Monolithic Polymers as the Stationary Phase for Liquid Chromatography.** American Academy of Forensic Sciences Annual Meeting, Feb 2012, Atlanta, GA.

Nicole Harre, Ashley Pipkin, Jorn Yu, and Colin Anderson. **Extraction of Methamphetamine from Postmortem Blood Samples by Molecularly Imprinted Polymers for Selective Solid Phase Extraction.** American Academy of Forensic Sciences Annual Meeting, Feb, 2012 Atlanta, GA.

Ashleigh Faris, Sibyl Bucheli, and David Gangitano. **Species Composition of the Maggot Mass.** American Academy of Forensic Sciences Annual Meeting, Feb 2012, Atlanta, GA.

Joan Bytheway, Angela Rippley, and Ashleigh Gallaway. **Stages of Decomposition of Human Remains in a Subtropical Humid Environment.** American Academy of Forensic Sciences Annual Meeting, Feb 2012, Atlanta, GA.

Kayla Ellefsen, MacKenzie Willis, Ayodele Collins, James Bourland, and Ronald Backer. **Evaluation of the Immunalysis Tapentadol Enzyme Immunoassay Kit.** American Academy of Forensic Sciences Annual Meeting, Feb 2012, Atlanta, GA.

MacKenzie Willis, Kayla Ellefsen, Ayodele Collins, James Bourland, and Ronald Backer. **Validation and Comparison of the Microgenics and Immunalysis Buprenorphine EIA Kits.** American Academy of Forensic Sciences Annual Meeting, Feb 2012, Atlanta, GA.



Eduardo Padilla and Sarah Martin. **Method Development and Validation for the Detection of Cannabinoids in Blood Using LC/MS/MS.** American Academy of Forensic Sciences Annual Meeting, Feb 2012, Atlanta, GA.

Danielle Dela Cruz, Chris Heartsill, and Jorn C.C. Yu. **A Comparison of Alprazolam Levels in Blood and Urine.** American Academy of Forensic Sciences Annual Meeting, Feb 2012, Atlanta, GA.

Steve Noser, Ashleigh Gallaway, Angela Rippley, Kevin Derr, Joe Trevino III, and Joan Bytheway. **Estimation of the Postmortem Interval of Human Remains in a Subtropical Humid Environment Using Accumulated Degree-Days and Total Body Scoring.** American Academy of Forensic Sciences Annual Meeting, Feb 2012, Atlanta, GA.

# 2011

Petrikovics I, Thompson DE, Rockwood GA, Logue BA, Martin S, Jayanna P, and Yu JCC. **Organ-distribution of the metabolite 2-aminothiazoline-4-carboxylic acid in a rat model following cyanide exposure.** *Biomarkers*, Dec 2011; 16(8):686-690.

Sarah Kerrigan, Stephanie Banuelos, Laura Perrella, and Brittany Hardy. **Simultaneous Detection of Ten Psychedelic Phenethylamines in Urine by Gas Chromatography-Mass Spectrometry.** *Journal of Analytical Toxicology*, 35:1-8 (Sept 2011).

Sarah Kerrigan, Monica Brady-Mellon, Stephanie Banuelos, and Crystal Arndt. **Evaluation of Commercial Enzyme Linked Immunosorbent Assays to Identify Psychedelic Phenethylamines.** *Journal of Analytical Toxicology*, 35: 10-21 (Sept 2011).

S.R. Hughes-Stamm, K.A. Ashton, and A. van Daal. **Assessment of DNA Degradation and the Genotyping Success of Highly Degraded Samples.** *International Journal of Legal Medicine*. 125(3):341-8 (2011).

Natalie Lindgren, Jeffrey Kelly, Alan Archambeault, Sybil Bucheli, and Joan Bytheway. **Exclusion of forensically important flies due to burying behavior by the red imported fire ant (*Solenopsis invicta*) in southeast Texas.** *For Sci Int*. 204(1-3):e1-3 (2011).

Charity Owings, Nicole Larison, and Joan Bytheway. **Taphonomic Changes Observed on Skeletal Remains in Southeast Texas.** American Academy of Forensic Sciences Annual Meeting, Feb 2011, Chicago, IL.

Mallory Foster, Jorn Chi Chung Yu, and Darrell Stein. **The Use of Infrared Imaging to Facilitate Fired Cartridge Case and Bullet Comparisons.** American Academy of Forensic Sciences Annual Meeting, Feb 2011, Chicago, IL.

Sarah Martin, J. Nasr; Jorn Chi Chung Yu, and Ilona Petrikovics. **Study of L-2-Aminothiazoline-4-Carboxylic Acid as a Biomarker for Cyanide Poisoning by LC-MS/MS Analysis.** American Academy of Forensic Sciences Annual Meeting, Feb 2011, Chicago, IL.

Lyndsi Ayers and Sarah Kerrigan. **Quantitative Analysis of Salvinorin A (*Salvia*) in Blood.** American Academy of Forensic Sciences Annual Meeting, Feb, 2011, Chicago, IL.

Francisco Ortiz, Jeffrey Walterscheid, Terry Danielson, and Ashraf Mozayani. **Toxicological Analysis of Synthetic Cannabinomimetic “Spice” Drugs.** American Academy of Forensic Sciences Annual Meeting, Feb 2011, Chicago, IL.

Kristina Scott and David Gangitano. **Application of a Handheld Vacuum-Filter Device for Differential Sperm Separation.** American Academy of Forensic Sciences Annual Meeting, Feb 2011, Chicago, IL.

Shahida Flores and David Gangitano. **Collection of Touch DNA by a Handheld Vacuum Device.** American Academy of Forensic Sciences Annual Meeting, Feb 2011, Chicago, IL.

Laura Perrella, Jordan Williams, Andrew McWhorter, and Jennifer Watson. **Optimizing Sperm Cell Recovery from Cotton Swabs prior to Christmas Tree Staining and p30 Test.** American Academy of Forensic Sciences Annual Meeting, Feb 2011, Chicago, IL.

Jordan Williams, Laura Perrella, Andrew McWhorter, and Jennifer Watson. **Optimization of Touch DNA Collection.** American Academy of Forensic Sciences Annual Meeting, Feb 2011, Chicago, IL.

Francisco Ortiz, Breanna Jatzlau, Ashley Mullings, Kelsie Bryand, and Sarah Kerrigan. **Simultaneous Detection of Psychedelic Amphetamines in Urine By LC/MS/MS.** American Academy of Forensic Sciences Annual Meeting, Feb 2011, Chicago, IL.

Seongshin Gwak, Ayodele Collins, Cade Park, Scot Chester, and James Bourland. **Prevalence of Norhydrocodone in Authentic Hydrocodone Urine Specimens.** American Academy of Forensic Sciences Annual Meeting, Feb 2011, Chicago, IL.

Emily Young, Ayodele Collins, and James Bourland. **Evaluation of Enzymatic Hydrolysis Efficiency for Buprenorphine Analysis.** American Academy of Forensic Sciences Annual Meeting, Feb, 2011, Chicago, IL.

Brittney Gonzalez, Pablo A. Nosedá, and David A. Gangitano. **STR Data for Three Closely Linked X-Chromosomal Markers in an Argentinean Population.** American Academy of Forensic Sciences Annual Meeting, Feb 2011, Chicago, IL.

# 2010

Sibyl Bucheli, Joan Bytheway, and David Gangitano. **Necrophagous Caterpillars Provide Human mtDNA Evidence.** J Forensic Sci. 2010 Jul;55(4):1130-2.

J C.C. Yu and E. P.C. Lai. **Molecularly Imprinted Polymers for Ochratoxin A Extraction and Analysis.** Toxins (Jun 2010) 2(6), 1536-1553.

Munoz A, Gangitano DA, Smith CP, Boone TB, and Somogyi GT. **Removal of urothelium affects bladder contractility and release of ATP but not release of NO in rat urinary bladder.** BMC Urol. 2010 May 24;10:10.

Ridhima Rao and Sarah Kerrigan. **Determination of Salvinorin A in Urine by GC/MS.** California Association of Toxicologists Meeting, May 2010, Sacramento, CA.

Randy Jackson, Ilona Petrikovics, E. P. C. Lai, and Jorn Chi Chung. Yu. **Molecularly imprinted polymer stir bar sorption extraction and electrospray ionization tandem mass spectrometry for determination of 2-aminothiazoline-4-carboxylic acid as a marker for cyanide exposure in forensic urine analysis,** Analytical Methods, 2010 May;2:552-557.

Phillip Stout, Kelsie Simons, and Sarah Kerrigan. **Quantitative Analysis of Gamma-Hydroxybutyrate (GHB) at Endogenous Concentrations in Hair using Liquid Chromatography Tandem Mass Spectrometry (LC/MS/MS).** Journal of Forensic Sciences, 2010 Mar; 55 (2), 531-537.

R. Jackson, I Petrikovics, E. P.C. Lai, and J C. C. Yu. **Molecularly Imprinted Polymer Stir Bar Sorption Extraction and Electrospray Ionization Tandem Mass Spectrometry for Determination of 2-Aminothiazoline-4-Carboxylic Acid as a Marker for Cyanide Exposure.** Analytical Methods, (Mar 2010) 2:552-557.

Jorn Yu, Ilona Petrickovics, Randy Jackson, and Katelyn Stafford. **Analytical Method Development for Determining the Biomarker Cyanide Metabolite 2-Aminothiazoline-4-Carboxylic Acid in Mice**

**Liver After Cyanide Exposure**, The Society of Toxicology Annual Meeting, Mar 2010, Salt Lake City, UT.

Rebecca Girardet, Kelly Bolton, William Arnold, Breanna Mead, Nicole Paes, Sheela Lahoti, Reena Isaac, and Angelo Giardino. **The Collection of Forensic Evidence from Prepubescent Victims of Sexual Assault**. American Academy of Forensic Sciences Annual Meeting, Feb 2010, Seattle, WA.

Jeffrey Kelly, Natalie Lindgren, Alan Archambeault, Sybil Bucheli, and Joan Bytheway. **Insect Succession Model for Southeast Texas in Early Spring**. American Academy of Forensic Sciences Annual Meeting, Feb 2010, Seattle, WA.

Joan Bytheway. **Southeast Texas Applied Forensic Science Facility (STAFS) at Sam Houston State University: A New Forensic Anthropology Human Decomposition Facility**. American Academy of Forensic Sciences Annual Meeting, Feb 2010, Seattle, WA

Joan A. Bytheway and Ann H. Ross. **Precision of Coordinate Landmark Data Acquired From the OS Coxa**. American Academy of Forensic Sciences Annual Meeting, Feb 2010, Seattle, WA

Katelyn Stafford, Nicole Larison, Angela Rippley, Natalie Lindren, and Joan Bytheway. **Postmortem Interval of Surface Remains in Spring Season in Southeast Texas**. American Academy of Forensic Sciences Annual Meeting, Feb 2010, Seattle, WA

Mario Galioto, Diana Morales, and Cassie Carradine. **Internal Validation of an Automated Extraction Robot**. American Academy of Forensic Sciences Annual Meeting, Feb 2010, Seattle, WA.

Breanna Mead and David Gangitano. **Study on SNPs Relating to Ethnicity and Hair/Eye Pigmentation in a Population of Texas**. American Academy of Forensic Sciences Annual Meeting, Feb 2010, Seattle, WA.

Mario Galioto, David Gangitano, and Joan Bytheway. **Comparative Study on Stability of DNA in Alternative Sample Tissues for use in the Identification of Decomposed Cadavers**. American Academy of Forensic Sciences Annual Meeting, Feb 2010, Seattle, WA.

Jennifer Sycalik and David Gangitano. **Pollen DNA: A New Tool for Forensic Investigations.** American Academy of Forensic Sciences Annual Meeting, Feb 2010, Seattle, WA.

Nicole Paes and David Gangitano. **Application of mini-STRs to Low Copy Number DNA Samples.** American Academy of Forensic Sciences Annual Meeting, Feb, 2010, Seattle, WA.

Harry R. Ehmann. **The Forensic Assessment of HID (Xenon) Headlights: Determining Energization State and Identifying Illegal Vehicle Modifications,** American Academy of Forensic Science, Feb 2010, Seattle, WA.

Katelyn Stafford, Randy Jackson, Kelsie Simons, Jorn C.C. Yu, and Ilona Petrickovics. **Analytical Method Development for Determining the Biomarker, 2-Aminothiazoline-4-Carboxylic Acid (ATCA), in Mice Liver After Cyanide Exposure,** American Academy of Forensic Science, Feb, 2010, Seattle, WA.

Jeffrey D. Kelly and Jorn C.C. Yu. **Analysis of Non-Toxic Ammunition by Double Shot Pyrolysis Gas Chromatography/Mass Spectroscopy (DY-PY GC/ MS),** American Academy of Forensic Science, Feb 2010, Seattle, WA.

Sarah Kerrigan. **The Use of Alcohol to Facilitate Sexual Assault.** Forensic Science Review 22(1), 16-32 (Jan 2010).

David Gangitano. **SNPs as Predictors of Eye/Hair Color.** 21st International Symposium on Human Identification (Promega). October 11-14, 2010. San Antonio, TX. (oral presentation)

# 2009

J.C.C. Yu and E.P.C. Lai. **Molecularly imprinted polymer nanomaterials for mycotoxin extraction**, in American Chemical Society - Mycotoxin Prevention and Control in Agriculture Symposium Series, (Dec 2009) Vol. 1031, Chapter 19, 277–292.

Katelyn Stafford, Randy Jackson, Jorn C.C Yu, and Ilona Petrikovics. **Analytical Method Development for Determining the Biomarker, 2-Aminothiazoline-4-Carboxylic Acid (ATCA), in Mice Liver After Cyanide Exposure**, The 65th Southwest Regional Meeting of the American Chemical Society, Nov 2009, El Paso, TX.

Coral Luce, Shawn Montpetit, David Gangitano, and Patrick O'Donnell. **Validation of the AMPFISTR MiniFiler PCR amplification kit for use in forensic casework**. J Forensic Sci. 2009 Sep;54(5):1046-54.

Harry Ehmann and Jorn Yu, **Determination of Energization State of Xenon High Intensity Discharge Automobile Headlights**, Forensic Science Journal, (Sept 2009) 8:13-28.

Delisa Downey and Sarah Kerrigan. **Quantitative Analysis of Carisoprodol and Meprobamate in Whole Blood Using Benzylcarbamate and Deuterated Meprobamate as Internal Standards**. Journal of Analytical Toxicology, 33(5), 278-282 (Jun 2009).

Gangitano D, Salas R, Teng Y, Perez E, and De Biasi M. **Progesterone modulation of alpha5 nAChR subunits influences anxiety-related behavior during estrus cycle**. Genes Brain Behav. 2009 Jun;8(4):398-406.

Garrett Burleson, Brittany Gonzalez, Kelsie Simons, and Jorn Yu. **Forensic analysis of a single particle of partially burnt gunpowder by solid phase micro-extraction – gas chromatography-nitrogen phosphorus detector**, Journal of Chromatography A, (May 2009) 22: 4679-4683.

Joan A. Bytheway, Kathryn Moss, and Stephen M. Pustilnik. **What Lies Beneath: Re-Examining a Cold Case Homicide From a Forensic Anthropological Perspective: A Case Report**. American Academy of Forensic Sciences Annual Meeting, Feb 2009, Denver, CO.



Amanda Johnson, Joan Bytheway, and Stephen Pustilnik. **Skeletal Remains in a Fluvial Environment: Microscopic Evidence of glycoproteinous Adhesive of *Balanus Improvisus* on the Occlusal Surface of Mandibular Teeth.** American Academy of Forensic Sciences Annual Meeting, Feb 2009, Denver, CO

Chelsy Wingate, Michelle Parras-Layton, Scot Chester, Cade Park, Israel Reyes, and James Bourland. **Validation of Opiate Detection and Quantification in Human Urine Using Liquid Chromatography and Tandem Mass Spectrometry (LC/MS/MS).** American Academy of Forensic Sciences Annual Meeting, Feb 2009, Denver, CO.

Jamie Jouett and David Gangitano. **Molecular Palynology Study in Central East Texas: A New Approach to Linking Crime Scenes.** American Academy of Forensic Sciences Annual Meeting, Feb 2009, Denver, CO.

Jamie Jouett. **A Simple Liquid-Liquid Extraction of Carisoprodol and the Metabolite Meprobamate From Suspected Blood and Urine DUI Specimens for GC/MS Analysis.** American Academy of Forensic Sciences Annual Meeting, Feb 2009, Denver, CO.

Jennifer Hogue and Lauren Marinetti. **GC/MS Method Development for the Quantitation of Quetiapine in Various Biological Specimens.** American Academy of Forensic Sciences Annual Meeting, Feb 2009, Denver, CO.

Ridhima Rao and Dan Anderson. **Postmortem Analysis of Buprenorphine/Norbuprenorphine From Whole Blood by GC/MS.** American Academy of Forensic Sciences Annual Meeting, Feb 2009, Denver, CO.

Ann Gordon, Preston Wong, and Nikolas Lemos. **PCP and Drug Impaired Driving in San Francisco, California.** American Academy of Forensic Sciences Annual Meeting, Feb 2009, Denver, CO.

Nikolas Lemos, Ann Gordon, and Preston Wong. **Driving Under the Influence of Methamphetamine in the City & County of San**

**Francisco, California.** American Academy of Forensic Sciences Annual Meeting, Feb 2009, Denver, CO.

Ashraf Mozayani, William Davis, Luis Sanchez, and Colin Anderson. **Brake Pad Friction Particles: SEM-EDX Analysis and Comparisons to Gunshot Residue.** American Academy of Forensic Sciences Annual Meeting, Feb 2009, Denver, CO.

Jessica Ayala, Kelsie Simons, and Sarah Kerrigan. **Quantitative Determination of Caffeine and Alcohol in Energy Drinks and the Potential to Produce Positive Transdermal Alcohol Concentrations in Human Subjects.** Journal of Analytical Toxicology 33 (1), 27-33 (Jan 2009).

# 2008

R. Salas, A. Main, D. A. Gangitano, H. Soreq, and M. De Biasi. **Chronic nicotine relieves anxiety-like behavior in transgenic mice carrying the human acetylcholinesterase-R gene.** Mol Pharmacol. 2008 Dec;74(6):1641-8.

Preston J. Wong, Sarah Kerrigan, Jon J. Smith, Ellen Moffatt, Ann Marie Gordon, and Nikolas P. Lemos. **Muscle: An Alternative Post-Mortem Specimen for Drug Screening by Enzyme Linked Immunosorbent Assay**, Society of Forensic Toxicologists Annual Meeting, Oct, 2008, Phoenix, AZ.

Sara Winslett and Jorn C.C. Yu. **A Hollow Fiber Assisted Ionic Liquid Surface for Stir Bar Sorptive Extraction.** The 64th Southwest Regional Meeting of the American Chemical Society, Oct, 2008, Little Rock, AR.

Rebeca Reyna, Brittany Gonzalez, and Jorn C. C. Yu. **Discovery of Molecular Markers for Gunshot Residues by Solid Phase Micro Extraction- Gas Chromatography/Nitrogen Phosphorous Detector (SPME-GC/NPD).** The 64th Southwest Regional Meeting of the American Chemical Society, Oct, 2008, Little Rock, AR.

James Spurlin III, Patricia Chapela, Ilona Petrikovics, and Jorn Chi Chung Yu. **Encapsulation Efficiency of Organophosphorous Hydrolase in Lecithin Liposomes as Determined by Capillary Electrophoresis.** The 64th Southwest Regional Meeting of the American Chemical Society, Oct, 2008, Little Rock, AR.

Smith CP, Gangitano DA, Munoz A, Salas NA, Boone TB, Aoki KR, Francis J, and Somogyi GT. **Botulinum toxin type A normalizes alterations in urothelial ATP and NO release induced by chronic spinal cord injury.** Neurochem Int. 2008 May;52(6):1068-75.

Garrett Burleson and Jorn C. C. Yu. **Forensic Analysis of Single Gun Powder Particle by SPME-GC/NPD (Solid Phase Micro-Extraction – Gas Chromatography/Nitrogen Phosphorus Detector, 235th American**

Chemical Society (ACS) National Meeting and Exposition, Apr 2008, New Orleans, LA.

Ayodele Collins, Joseph Monforte, Ying Cheng, Ronald Backer, and Sarah Kerrigan. **A Stability Study on Ritalinic Acid in Urine**, American Academy of Forensic Sciences Annual Meeting, Feb 2008, Washington DC.

Shannon Gross and Jorn C.C. Yu. **Probing Single Strand DNA Using Bioconjugated Quantum Dots**, American Academy of Forensic Sciences Annual Meeting, Feb 2008, Washington DC.

Coral Luce, Shawn Montpetit, David Gangitano, and Patrick O'Donnell. **Validation of the AmpFISTR® MiniFiler™ PCR Amplification Kit and its Application to Identify Human Remains from a 1992 Helicopter Crashed Analyzed by the San Diego Police Department Crime Laboratory**, American Academy of Forensic Sciences Annual Meeting, Feb 2008, Washington DC.

Shamah Lloyd, Shannon Gross, and Jorn .C.C. Yu. **Functionalization of Nanocrystals for Latent Fingerprint Development**, American Academy of Forensic Sciences Annual Meeting, Feb, 2008, Washington DC.

R. Salas, A. Main, D. A. Gangitano, and M. De Biasi. **Decreased withdrawal symptoms but normal tolerance to nicotine in mice null for the alpha 7 nicotinic acetylcholine receptor subunit**. *Neuropharmacology*. 2007 Dec;53(7):863-9.

J.C.C. Yu and E.P.C. Lai, **Determination of ochratoxin A in red wines by multiple pulsed elutions from molecularly imprinted polypyrrole**, *Food Chemistry*, (Nov 2007) 105, 1: 301-310.

Jorn Yu and Shannon Gross. **A Novel Capillary Electrophoresis Immunoassay for Ochratoxin Detection Using Molecular Probe of Quantum Dot Bioconjugate**, The 63rd Southwest Regional Meeting of the American Chemical Society, Nov 2007, Lubbock, TX.

Shannon Gross and Jorn Yu. **Carbodiimide-Mediated Reaction with Self-Assembly Nano-Structured Quantum Dots for Latent Fingerprint Development**, The 63rd Southwest Regional Meeting of the American Chemical Society, Nov 2007, Lubbock, TX.

W. Yun, Q. Longhui, J.C.C. Yu, and E.P.C. Lai. **Molecularly Imprinted Solid Phase Extraction in a Syringe Needle packed with Polypyrrole-encapsulated Carbon Nanotubes for Determination of Ochratoxin A in Red Wine**, Food Science and Technology International, (Oct 2007) 13 (5): 375-380.

Laurel Farrell, Sarah Kerrigan, and Barry Logan. **Recommendations for Toxicological Investigation of Drug Impaired Driving**, Journal of Forensic Sciences 52(5), 1-5 (Sept 2007).

J.C.C. Yu, A. Hrdina, C. Mancini, and E.P.C. Lai. **Molecularly Imprinted Polypyrrole Encapsulated Carbon Nanotubes in Stainless Steel Frit for Micro Solid Phase Extraction of Estrogenic Compounds**, Journal of Nanoscience and Nanotechnology, (Sept 2007) 7: 3095–3103.

# 2007

Shamah Lloyd, Shannon Gross, and Jorn .C.C. Yu. **Latent Fingerprint Development Using Funcational Quantum Dots.** The 92nd International Association of Identification Annual Meeting, July 2007, San Diego, CA.

Anna Leggett, Sharla McCloskey, Rachael Malfer, and Sarah Kerrigan. **Driving Behavior and Impairment Symptoms in Cannabinoid Positive Subjects Arrested for Driving Under the Influence of Drugs (DUID).** American Academy of Forensic Sciences Annual Meeting, Feb 2007, San Antonio, TX.

Sharla McCloskey, Anna Leggett, Rachael Malfer, and Sarah Kerrigan. **Driving Under the Influence of Methamphetamine: Comparison of Driving Behavior and Impairment Symptoms in Subjects Arrested for Driving While Intoxicated (DWI).** American Academy of Forensic Sciences Annual Meeting, Feb 2007, San Antonio, TX.

Rachael Malfer, Anna Leggett, Sharla McCloskey, and Sarah Kerrigan. **Cocaine Impaired Driving: Evaluation of Toxicology, Driving Behavior and Impairment Symptoms in Arrested Drivers.** American Academy of Forensic Sciences Annual Meeting, Feb 2007, San Antonio, TX.

N. Salas, G. T. Somogyi, J. N. Rocha, D. A. Gangitano, T. B. Boone, and C. P. Smith. **Receptor activated bladder and spinal ATP release in neurally intact and chronic spinal cord injured rats.** *Neurochem Int.* 2007 Jan;50(2):345-50.