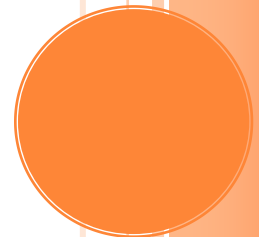


SAM HOUSTON STATE UNIVERSITY MSFS PUBLICATIONS

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.



2012

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

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

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

Patricia A. Contreras, Stephen S. Houck, William M. Davis, Jorn C.C. 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

Jaclyn B. Kenline, BS*; Lauren G. Bouse, MSFS; Pablo A. Nosedá, BS; David A. Gangitano, PhD. **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, BS*; Seongshin Gwak, BS; Jorn C.C. Yu, PhD. **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 M. Harre, MS; Ashley J. Pipkin, BS*; Jorn C.C. Yu, PhD; Colin C. Anderson, MS. **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 M. Faris, BS*; Sibyl Bucheli, PhD; David A. Gangitano, PhD. **Species Composition of the Maggot Mass.** American Academy of Forensic Sciences Annual Meeting, Feb 2012, Atlanta, GA.

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

Kayla N. Ellefsen, BSc*; MacKenzie L. Willis, BS; Ayodele A. Collins, MS; James A. Bourland, PhD; Ronald C. Backer, PhD. **Evaluation of the Immunalysis Tapentadol Enzyme Immunoassay Kit.** American Academy of Forensic Sciences Annual Meeting, Feb 2012, Atlanta, GA.

MacKenzie L. Willis, BS*; Kayla N. Ellefsen, BSc; Ayodele A. Collins, MS; James A. Bourland, PhD; Ronald C. Backer, PhD. **Validation and Comparison of the Microgenics and Immunalysis Buprenorphine EIA Kits.** American Academy of Forensic Sciences Annual Meeting, Feb 2012, Atlanta, GA.

Eduardo Padilla, BS; Sarah E. Martin, BS*. **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 A. Dela Cruz, BS*; Chris Heartsill, BS; Jorn C.C. Yu, PhD. **A Comparison of Alprazolam Levels in Blood and Urine.** American Academy of Forensic Sciences Annual Meeting, Feb 2012, Atlanta, GA.

Steve A. Noser, BS*; Ashleigh Gallaway, BS*; Angela Rippley, BS; Kevin R. Derr; Joe Trevino III; Joan A. Bytheway, PhD. **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, 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).

Mallory Foster, BS* and Jorn Chi Chung Yu, PhD., 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*, BS; J. Nasr; Jorn Chi Chung Yu, PhD; and Ilona Petrikovics, PhD. **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 J. Ayers, MS* and Sarah Kerrigan, Ph.D. **Quantitative Analysis of Salvinorin A (*Salvia*) in Blood.** American Academy of Forensic Sciences Annual Meeting, Feb, 2011, Chicago, IL.

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

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

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

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

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

Seongshin Gwak², B.S.*, Ayodele Collins¹, M.S., Cade Park¹, B.S., Scot Chester¹, B.S. and James Bourland¹, Ph.D. **Prevalence of Norhydrocodone in Authentic Hydrocodone Urine Specimens.** American Academy of Forensic Sciences Annual Meeting, Feb 2011, Chicago, IL.

Emily Young^{2*}, B.S., Ayodele Collins¹, M.S. and James Bourland¹, PhD. **Evaluation of Enzymatic Hydrolysis Efficiency for Buprenorphine Analysis.** American Academy of Forensic Sciences Annual Meeting, Feb, 2011, Chicago, IL.

Brittney C. Gonzalez B.S.*, Pablo A. Nosedá B.S., David A. Gangitano Ph.D. **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

Bucheli SR, Bytheway JA, Gangitano DA. **Necrophagous Caterpillars Provide Human mtDNA Evidence.** J Forensic Sci. 2010 Jul;55(4):1130-2.

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

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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, 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, 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 C.C. Yu, Ilona Petrickovics, Randy Jackson, 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 G Girardet, MD, Kelly Bolton, RN, William B Arnold, Breanna K Mead, Nicole Paes, Sheela Lahoti, MD, Reena Isaac, MD, Angelo Giardino, MD. **The Collection of Forensic Evidence from Prepubescent Victims of Sexual Assault.** American Academy of Forensic Sciences Annual Meeting, Feb 2010, Seattle, WA.

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

Breanna K. Mead* (BS) and Dr. David A. 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, BS*; David Gangitano, PhD; and Joan Bytheway, PhD.
Comparative Study on Stability of DNA in Alternative Sample Tissues for use in the Identification of Decomposed Cadavers.
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Jennifer Sycalik, BS, David Gangitano, PhD. **Pollen DNA: A New Tool for Forensic Investigations.** American Academy of Forensic Sciences Annual Meeting, Feb 2010, Seattle, WA.

Nicole Paes, BS, David Gangitano, PhD. **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, 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, 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).

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J.C.C. Yu, E.P.C. Lai, **Molecularly imprinted polymer nanomaterials for mycotoxin extraction,** in American Chemical Society - Mycotoxin

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Jamie Jouett B.S., David Gangitano Ph.D. **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 L. Jouett, BS*. **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 M. Hogue, BA*; Lauren Marinetti, PhD. **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 D. Rao, BS*; Dan T. Anderson, MS. **Postmortem Analysis of Buprenorphine/Norbuprenorphine From Whole Blood by GC/MS.** American Academy of Forensic Sciences Annual Meeting, Feb 2009, Denver, CO.

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

Nikolas P. Lemos, PhD*; Ann M. Gordon, MA; Preston J. Wong, BS. **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, PhD, PharmD; William M. Davis, PhD*; Luis A. Sanchez, MD; Colin C. Anderson, BS, **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).

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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, 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.

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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 AmpFlSTR® 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.

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