

# YFSF POSTER SESSION

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## Friday

### Anthropology

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- 11:30 AM – 1:00 PM    **Y1**    **A Test of a Newly Revised Age-at-Death Method for the Auricular Surface of the Ilium**  
*Frankey Leggio\**; *Krista Bennett, MA*
- 11:30 AM – 1:00 PM    **Y2**    **Growth of the Juvenile Talus: A Pilot Study in Age-at-Death Estimation**  
*Rebecca Reid, MSc\**

### Criminalistics

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- 11:30 AM – 1:00 PM    **Y3**    **Accuracy of DNA Phenotyping Using Next Generation Sequencing**  
*Paige Aymar, BA\**; *Lisa Ludvico, PhD*; *Pamela Marshall, PhD*
- 11:30 AM – 1:00 PM    **Y4**    **Analysis Methods of Ephedra and Related Compounds in Web of Science (WOS) Between 1980-2022: A Systematic Review and Meta-Analysis**  
*Nurdan Sandikci, MSc\**; *Sevil Atasoy, PhD*
- 11:30 AM – 1:00 PM    **Y5**    **Analysis of the Inorganic Components of Eyeshadows by XRD and SEM-EDS**  
*Alexandra Mahler\**; *Anna Duggar, PhD*
- 11:30 AM – 1:00 PM    **Y6**    **Biometrics From Human Hair Using Gas Chromatography-Isotope Ratio Mass Spectrometry of Ethyl Chloroformate Derivatives of Amino Acids**  
*Erica Maney, MS\**; *Glen Jackson, PhD*
- 11:30 AM – 1:00 PM    **Y7**    **Detection of Ignitable Liquid Residues Using Crime-lite® AUTO**  
*Kaylee Morton, BS\**; *Kimberly Kunkler, PhD*; *Lauren Richards-Waugh, PhD*; *Mathew Winters, AS*
- 11:30 AM – 1:00 PM    **Y8**    **The Use of Portable Capillary Liquid Chromatography With Dual Silica Hydride Stationary Phases and Dual Ultraviolet Wavelength Detection for the Analysis of Synthetic Cathinone Positional Isomers**  
*Wyonna Tran, BS\**; *Ira Lurie, PhD*

### General

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- 11:30 AM – 1:00 PM    **Y9**    **Assessing Genetic Diversity Between Wild and Captive Turkeys (*Meleagris gallopavo*) in Pennsylvania**  
*Savannah Nguyen, BA\**; *Lyndsie Ferrara, PhD*; *Lisa Ludvico, PhD*
- 11:30 AM – 1:00 PM    **Y10**    **Comparative Extraction and Identification of Illicit Compounds From Baked Edibles Using Paper Spray Ionization–Tandem Mass Spectrometry and Liquid Chromatography–Triple Quadrupole–Mass Spectrometry**  
*Isabella Haberstock, BS\**; *Lyndsie Ferrara, PhD*; *Michael Van Stipdonk, PhD*; *Hannah Zimmerman-Federle, MS*
- 11:30 AM – 1:00 PM    **Y11**    **Development of a Conserved Semenogelin I and II Epitope for Semen Identification With Respect to Allelic Variation**  
*William Gibbs, BS\**; *Michael Jensen-Seaman, PhD*; *Pamela Marshall, PhD*; *Elizabeth Wisbon, BS, MS*

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- 11:30 AM – 1:00 PM **Y12** **eDNA Detection of *Lycorma Delicatula* Using Multiple Types of Forensic Swabs via STR Analysis**  
*Maeve Picariello, BA\**; *Bryan Delius, PhD*; *Jay Losiewicz, MA*; *Lisa Ludvico, PhD*
- 11:30 AM – 1:00 PM **Y13** **Examining Differences in Exonerations Across the United States**  
*Alexys Karl, BA\**; *Joshua Ellsworth, PhD*; *Lyndsie Ferrara, PhD*; *Stephanie Wetzel, PhD*
- 11:30 AM – 1:00 PM **Y14** **Identification of Race Through Chemical Analysis of Latent Fingerprints**  
*Brynn Myers, BS\**; *Mark McCoy, EdD*; *Caitlin Porterfield, MS*
- 11:30 AM – 1:00 PM **Y15** **Revisiting the CSI Effect: Has the Popularity of Crime Media Changed Anything?**  
*Elizabeth Diltz, BA\**; *Lyndsie Ferrara, PhD*; *Bobbi Jo Wagner, JD*; *Sara Walker, MSFS*
- 11:30 AM – 1:00 PM **Y16** **Streamlining the Extraction and Quantification of Synthetic Cathinone in Oral Fluid by Means of Solid-Phase Extraction (SPE) and LC-MS/MS Analysis**  
*Jacob Katsafanas, BA\**; *Pamela Marshall, PhD*; *Mandy Tinkey, MS*; *Stephanie Wetzel, PhD*
- 11:30 AM – 1:00 PM **Y17** **The Development of a Central Mammalian Fur Database**  
*Hailey Adamik, BS\**
- 11:30 AM – 1:00 PM **Y18** **Visual Diagnostics for Cartridge Case Impression Evidence**  
*Joseph Zemmels, MS\**; *Heike Hofmann, PhD*; *Susan VanderPlas, PhD*

## Jurisprudence

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- 11:30 AM – 1:00 PM **Y19** **America's Court System Through the Lens of a Pandemic: The Past, Present, and Future Adaptations**  
*Julianna Firek, BA\**; *Lyndsie Ferrara, PhD*
- 11:30 AM – 1:00 PM **Y20** **Understanding the Use of Forensic Evidence at Trial: A Case Study of Criminal Trials in Ohio**  
*Philip O'Sullivan, MS\**; *Emily Hughes, JD, MA*; *Kori Khan, PhD, JD*

## Pathology/Biology

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- 11:30 AM – 1:00 PM **Y21** **Internal Validation of a Modified Procedure for the DNA Collection From Fired Cartridge Casings**  
*Jordan Bowman, BS\**; *Kelly Beatty, MSFS*; *Jessica Skillman, BS*
- 11:30 AM – 1:00 PM **Y22** **Splenic Rupture: An Unusual Presentation of Ehlers-Danlos Syndrome With Genetic Confirmation**  
*Megan Schultz\**; *Daniel Schultz, MD*
- 11:30 AM – 1:00 PM **Y23** **The Effect of Motor Oil on the Attraction of Forensically Important Diptera in Toco, Trinidad**  
*Alyssa Teixeira\**; *Adrienne Brundage, PhD*; *Kevin Conway, PhD*; *Ryan Mohammed, PhD*
- 11:30 AM – 1:00 PM **Y24** **The Impact of Sunscreen on the Attractancy of Forensically Important Flies in Toco, Trinidad**  
*Macy Strain\**; *Adrienne Brundage, PhD*; *Kevin Conway, PhD*; *Ryan Mohammed, PhD*
- 11:30 AM – 1:00 PM **Y25** **The Value of the Autopsy: Considerations on Questions Regarding Drug Toxicity**  
*Victoria Sanchez, MS\**; *Daniel Schultz, MD*

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- 11:30 AM – 1:00 PM    **Y26**    **Validation for Plate Setup on the QIAgility Instrument Using the Plexor HY Quantitation Kit and GlobalFiler™ Amplification Kit**  
*Madison Davenport, BS\*; Kelly Beatty, MSFS; Jessica Skillman, BS*
- 11:30 AM – 1:00 PM    **Y27**    **Comparing Insanity Defense Evidence: Psychiatric Assessments vs Neuroimaging**  
*Kaitlyn Svencer\*; Lyndsie Ferrara, PhD; Jane Moriarty, JD, MA*

## Toxicology

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- 11:30 AM – 1:00 PM    **Y28**    **The Determination of Hair Growth Rates in Various Anatomical Regions From a Student Campus Population**  
*Samantha Deibel, BS\*; Heather Harris, MFS, JD; Sherri Kacinko, PhD; Karen Scott, PhD*
- 11:30 AM – 1:00 PM    **Y29**    **The Evaluation of Novel Psychoactive Substance Drug Loss From Storage in Serum Separator Tubes**  
*Devin Kress, BS\*; Melissa Fogarty, MSFS; Heather Harris, MFS, JD; Barry Logan, PhD*