

PATHOLOGY/BIOLOGY

Wednesday

Poster Session

- 11:30 AM – 1:00 PM **11** **Internal Graze Gunshot Wounds**
*Nikoli Nickson, BA**; *Joyce deJong, DO*; *Joseph Prahlow, MD*
- 11:30 AM – 1:00 PM **12** **One Nail Drives Out Another: An Atypical Suicide**
*Marigrazia Calbano, MD**; *Antonio De Donno, PhD*; *Federica Mele, MD*;
Mirko Leonardelli, MD; *Gianluca Musci, MD*; *Stefano Duma, MD*; *Gianluca Gravili, MD*;
Enrica Macorano, MD; *Giovanni De Gabriele, MD*; *Francesco Introna, MD*
- 11:30 AM – 1:00 PM **13** **A Case of Autoerotic Death by Electrocution**
*Yoo Min Ahn, DO, MS**; *Chester Gwin, MD*
- 11:30 AM – 1:00 PM **14** **A Case of Mechanical Asphyxia Due to a Bowling Pinsetter Machine and a Brief Review of the Literature**
*Adam Gonzalez, MD**; *Lucas Wieck, MD*; *J. Keith Pinckard, MD, PhD*
- 11:30 AM – 1:00 PM **15** **An Unusual Suicide With Multiple Gunshot Injuries to the Head From Two Different Weapons**
Mihaela Georgieva, MD; *Martin Angelov, MD*; *Kamen Peev, MD*; *Ilina Brainova, MD, PhD*;
Verzhiniya Stefanova, MD.; *Alexandar Alexandrov, MD, PhD*; *Metodi Goshev, MD, PhD*;
Lorenzo Gitto, MD; *Biliana Mileva, MD**
- 11:30 AM – 1:00 PM **16** **An Assault on Coagulation: A Complex Suicide by Ingestion of Warfarin and Stab Wounds**
*Martina Padovano, MD**; *Federico Manetti, MD*; *Davide Radaelli, MD*; *Maria Chiara David, PhD*;
Stefano D'Errico, MD, PhD; *Matteo Scopetti, MD*
- 11:30 AM – 1:00 PM **17** **Complex Deaths: Murder or Suicide? A Report of Three Cases**
*Maria Antonella Bosco, MD**; *Valentina Milone, MD**; *Roberta Bibbò, MD**;
*Michele Ahmed Antonio Karaboue, LL.M.**; *Francesco Carpano, MD**; *Santina Cantatore, MD**;
*Stefania De Simone, MD**
- 11:30 AM – 1:00 PM **18** **Dating Traumatic Brain Injury With a Dura Mater Immunohistochemical Assay: An Ongoing Study**
*Marcello Benevento, DM**; *Giampiero Bottari, DM*; *Cristina Caterino, DM*; *Simona Nicoli, DM*;
Francesco Carravetta, DM; *Antonio Straface, MD*; *Biagio Solarino, PhD*
- 11:30 AM – 1:00 PM **19** **The Decapitation of a Motorcyclist Wearing a Full-Face Helmet in a Crash Against the Guardrail: A Case Report**
*Laura Panata, MD**; *Isabella Mercurio, MD*; *Michela Ferrara, MD*; *Massimo Lancia, MD*;
Mauro Bacci, MD
- 11:30 AM – 1:00 PM **110** **Forensic Aspects of Overkilling in Femicides: A Comparison of Forensic Case Series**
*Martino Maesani, MD**; *Umberto Rosini, MD*; *Matteo Sacco, MD**; *Angelica Zibetti, MD*;
Carmen Scalise, PhD, MD; *Fabrizio Cordasco, MD*; *Saverio Gualtieri, MD**; *Maria Manno, MD*;
*Giulio Pulpito, MD**; *Angela Carbone, MD*; *Roberto Raffaele, BE**; *Valerio Aquila, PsyD**;
Palmo Tavernese; *Pietrantonio Ricci, PHD, MD*; *Isabella Aquila, PhD, MD**
- 11:30 AM – 1:00 PM **111** **Intracranial Hemorrhage/Thrombosis in Infancy: Trauma or Not?**
*Kyla Jorgenson, MD, MS**; *Zachary Michalick, DM*; *Jan Gorniak, DO*; *Andrea Wiens, DO, MS*

PATHOLOGY/BIOLOGY

- 11:30 AM – 1:00 PM **I12** **Live(r) and Let Die: A Murder Case of a Woman Suffering From Alcoholic Hepatopathy**
*Mirella Sabatino, MD**; *Valeria Prandini, MD*; *Domenico De Stradis, MD*;
Alessandra Radogna, MD; *Claudia Vignali, MSc*; *Luca Morini, PhD*; *Gulnaz Javan, PhD*;
Silvia Visonà, PhD; *Matteo Moretti, MD*
- 11:30 AM – 1:00 PM **I13** **Men as Victims of Intimate Partner Violence: A Ten-Year Retrospective Study**
*Biliana Mileva, MD**; *Mihaela Georgieva, MD*; *Martin Angelov, MD*; *Kamen Peev, MD*;
Iliana Brainova, MD, PhD; *Verzhiniya Stefanova, MD.*; *Alexandar Alexandrov, MD, PhD*;
Lorenzo Gitto, MD; *Ivan Tsranchev, MD, PhD*; *Metodi Goshev, MD, PhD*
- 11:30 AM – 1:00 PM **I14** **Necks, Saws, and Video Tape: Using Surveillance Footage to Determine Manner of Death**
*Justin Lohmann, DM**; *Neil Haycocks, MD, PhD*; *Amanda Ho, MD*
- 11:30 AM – 1:00 PM **I15** **Sharp Force Fatalities: The Application of Bayes' Theorem to Evaluate the Manner of Death**
*Michele D'Aleo, MD**; *Marco Irmici, MD**; *Guido Pelletti, MD**; *Paolo Fais, MD, PhD*;
Arianna Giorgetti, MD; *Susi Pelotti, MD*
- 11:30 AM – 1:00 PM **I16** **Shotgun Deaths in Maryland: A Ten-Year Review**
*Joseph Mininni, DM**; *Stephanie Dean, MD*; *Jack Titus, MD*
- 11:30 AM – 1:00 PM **I17** **Astroglial and Microglial Reactions in Fatal Head Injury Decedents: A Survival-Time Correlation Study**
*Meenakshi Sharma, Msc**; *Arulselvi S., MBBS, MD*; *Vaishali Suri, MBBS, MD*;
Shyam Prakash, PhD; *Purva Mathur, MBBS, MD*; *Rajesh Malhotra, MBBS, MS*;
Deepak Agrawal, MBBS, MD; *Ravindra Mohan, PhD*; *Anupuma Raina, PhD*;
Sanjeev Lalwani, MBBS, MD
- 11:30 AM – 1:00 PM **I18** **Bigger Weapons Do Not Kill You More: A Dart Through the Head Is Sometimes Not Enough!**
Gianmarco Di Palma, MD; *Valeria Prandini, MD*; *Mirella Sabatino, MD*;
*Eugenio Gallotti, MD**; *Gulnaz Javan, PhD*; *Silvia Visonà, PhD*; *Iuisa Andrello, MD, PhD*;
Matteo Moretti, MD
- 11:30 AM – 1:00 PM **I19** **Burial at Sea**
*Joseph Curran, MD**; *Darin Trelka, MD, PhD*
- 11:30 AM – 1:00 PM **I20** **Decapitation and Crushing by Combine Harvester: An Infernal Machine**
*Eleonora Mezzetti, MD**; *Ilaria Marcacci, MD*; *Carla Occhipinti, MD*; *Fabio Del Duca, MD*;
Aniello Maiese, MD
- 11:30 AM – 1:00 PM **I21** **A Review of Violent and Unnatural Deaths in Which the Manner of Death Is Undetermined**
*Laura Bagwell, MD**; *Erica Curry, MD*

PATHOLOGY/BIOLOGY

Thursday—Session I

Natural Disease

Moderator: TBD

Co-Moderator: TBD

- 8:00 AM – 8:15 AM **I22** **A New Approach on the Timing of a Dynamic Process: The Pulmonary Thromboembolism**
*Maria Bonasoni, MD**; *Paolo Fais, MD, PhD*; *Linda Torelli, MD*; *Elisabetta Faedda, MD*;
Matilde Sassani, MD, PhD; *Rossana Cecchi, MD*
- 8:15 AM – 8:30 AM **I23** **Certification of Deaths of Persons With Reported Histories of Seizures or Epilepsy**
*Abigail Grande, MPH**; *Marcel Castor, MD*; *Riley Davis, BA*; *Allison Deemter, MA*;
Lillian O'Donnell, MA; *Amanda Fisher-Hubbard, MD*
- 8:30 AM – 8:45 AM **I24** **Neuropathology of Middle Meningeal Artery Embolization for Subdural Hematoma**
*Avneesh Gupta, MD**; *Amelia Baxter-Stoltzfus, MD*; *Edwin Partovi, MD*; *Rebecca Folkerth, MD*
- 8:45 AM – 9:00 AM **I25** **COVID-19-Related Myocarditis: Are We There Yet?**
*Davide Radaelli, MD**; *Denny Fuliani, MD*; *Elio Santangelo, MD*; *Pier Riccardo Bergamini, MD*;
Diana Bonuccelli, MD; *Stefano D'Errico, MD, PhD*
- 9:00 AM – 9:15 AM **I26** **Is It Really a Channelopathy? A Systematic Review of the Alterations Found at Autopsy in Brugada Syndrome**
*Simone Grassi, MS**; *Francesca Cazzato, MS*; *Massimo Zedda, MD*; *Mònica Coll, PhD*;
Martina Focardi, MS; *Oscar Campuzano, PhD*; *Ramon Brugada, MSurgery*; *Vilma Pinchi, MS*;
Antonio Oliva, MS, PhD
- 9:15 AM – 9:30 AM **I27** **Subnuclear Renal Tubular Vacuoles in Alcoholics**
*Finn Auld, BMBS**; *Jacqueline Parai, MD*; *Chris Milroy, MD, LLB*
- 9:30 AM – 10:00 AM **I28** **Updates in Normal Organ Weights: A Review of 4,000+ Cases From 2009 to 2014**
*Meagan Chambers, MD, MSc**; *Harold Sanchez, MD*
- 10:00 AM – 10:15 AM **BREAK**

Injury

Moderator: TBD

Co-Moderator: TBD

- 10:15 AM – 10:30 AM **I29** **Discordance of Reported History and Diagnosis of Mental Illness in Suicides**
*Nicole Panzica, BS**; *Brandi McCleskey, MD*
- 10:30 AM – 10:45 AM **I30** **Fatal Injuries in Traffic Accidents: A Retrospective Analysis of 294 Medicolegal Autopsies at the University Hospital of Montpellier**
*Emmanuel Margueritte, MD**; *Eric Baccino, MD*; *Maguette Niang, MD*
- 10:45 AM – 11:00 AM **I31** **Fatalities at the Astroworld Music Festival in Houston, Texas**
*Hannah Jarvis, MRCS**; *Merrill Hines, MD*

PATHOLOGY/BIOLOGY

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| 11:00 AM – 11:15 AM | I32 | Female Homicide Victims in Cook County, Illinois: A Retrospective Review <i>Lorenzo Gitto, MD*</i> ; <i>Ponni Arunkumar, MD</i> |
| 11:15 AM – 11:30 AM | I33 | A Five-Year Retrospective Analysis of On-The-Job Deaths in Shelby County, Tennessee <i>Sarah Troyer, BA*</i> ; <i>Danielle Harrell, DO</i> ; <i>Scott Collier, DM</i> |
| 11:30 AM – 11:45 AM | I34 | A Fatal Abdominal Trauma Following a Fall From Height: Trauma Score, Mortality Meeting, and the Forensic Pathologist <i>Siddhartha Das, MBBS, MD*</i> |
| 11:45 AM – 11:30 AM | I35 | Injury Pattern in Electric Scooter Accidents: A Case Report <i>Giovanni Aulino, MD*</i> ; <i>Matteo Polacco, MD</i> ; <i>Vincenzo Fattoruso, MD</i> ; <i>Silvia Valentini, MD</i> ; <i>Francesca Cittadini, MD, PhD</i> |
| 11:30 AM – 1:00 PM | | BREAK |

The Bigger Picture

Moderator: TBD

Co-Moderator: TBD

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| 1:00 PM – 1:15 PM | I36 | The Categorization of Autopsies as a Mechanism to Identify Possible Human Rights Violations <i>Eileen Buitrago, MSc*</i> ; <i>Alexander Sabogal</i> |
| 1:15 PM – 1:30 PM | I37 | Mafia Organizations in Italy: Useful Markers in Attributing Murders to Specific Groups <i>Giovanni Gurgoglione, MD*</i> ; <i>Roberta Bibbò, MD*</i> ; <i>Luigi Cipolloni, MD</i> ; <i>Giovanni Pollice, MD</i> ; <i>Diego Moro, MD*</i> ; <i>Giuseppe Bertozzi, MD</i> ; <i>Fabio Mariottini, MD</i> |
| 1:30 PM – 1:45 PM | I38 | Identifying Stress Factors and Related Coping Mechanisms Among Forensic Pathologists <i>Danielle Morgan, BS*</i> ; <i>Katelyn Bolhofner, PhD</i> |
| 1:45 PM – 2:00 PM | I39 | Providing Opinions on the “Degree of Force”: Problems and a Solution <i>Hans De Boer, MD, PhD*</i> ; <i>Charles Berger, PhD</i> ; <i>Soren Blau, PhD</i> |
| 2:00 PM – 2:30 PM | I40 | Strengthening Forensic Pathology Opinions With the Bayesian Approach for Evidence Interpretation: From Theory to Practice <i>Hans De Boer, MD, PhD*</i> ; <i>Judith Fronczek, MD, PhD</i> ; <i>Matthew Lynch, MBBS, LLB</i> ; <i>Charles Berger, PhD</i> |
| 2:30 PM – 2:45 PM | I41 | The Impacts of Governing Agencies: A Comparison of Differential Resources in the Medicolegal Death Investigation System Patchwork <i>Kelly Keyes, BS*</i> ; <i>Hope Smiley-McDonald, PhD</i> ; <i>Sean Wire, PhDc</i> ; <i>Crystal Daye, MPA</i> ; <i>Kathryn Greenwell, BA</i> ; <i>Jeri Roper-Miller, PhD</i> |
| 2:45 PM – 3:00 PM | I42 | Standards Development Activities in Medicolegal Death Investigation and Forensic Pathology <i>J. Keith Pinckard, MD, PhD*</i> |
| 3:00 PM – 3:15 PM | | BREAK |

PATHOLOGY/BIOLOGY

New Perspectives

Moderator: TBD

Co-Moderator: TBD

- 3:15 PM – 3:30 PM **I43** **Postmortem Findings in Three Cases of Vaccine-Induced Death: The Autopsy Role in Vaccine-Induced Thrombotic Thrombocytopenia (VITT) Diagnosis and Comprehension of the Pathophysiology**
*Chiara Stassi, MD**; *Gennaro Baldino, MD*; *Cristina Mondello, MD*; *Fabrizio Perri, MD*; *Daniela Sapienza, MD*; *Alessio Asmundo, MD*; *Elvira Ventura Spagnolo, MD**
- 3:30 PM – 4:00 PM **I44** **Thrombosis Patterns of COVID-19 Vaccine-Induced Thrombotic Thrombocytopenia (VITT): “Order and Method” in Forensic Pathology**
*Raffaella Vetrini, BS**; *Stefano D’Errico, MD, PhD*; *Vittorio Fineschi, MD, PhD*; *Costantino Ciallella*; *Benedetta Baldari, MD*; *Antonello Cirnelli*; *Stefano Pizzolitto, MD*
- 4:00 PM – 4:15 PM **I45** **A Multidisciplinary Analysis of Partial Human Remains Found Under the Sea in Venezuela, Investigated With an International Collaboration During the COVID-19 Pandemic**
*Paola Magni, PhD**; *Iris Carma, MS*; *Lisbeth Borjas, MS*; *Fanny Díaz, MD*; *Marlenis Villarroel, MS*; *Edda Guareschi, MD*
- 4:15 PM – 4:45 PM **I46** **The Final Frontier: Human Decomposition in Low Earth Orbit**
*Sherri Damlo, MS**; *Lerah Sutton, PhD**; *Craig Damlo, MSc*
- 4:45 PM – 5:00 PM **I47** **Unique Medical Identity Card (UMID): The First DNA Database and Identification Portal in India for the Identification of Unidentified Bodies and Missing Persons**
*Chittaranjan Behera, MD**

Poster Session

- 11:30 AM – 1:00 PM **I48** **A Rare Case of Cardiac Tamponade by the Surgical Correction of a Hiatal Hernia**
*Federica Spina, MD**; *Eleonora Mezzetti, MD*; *Julia Lazzari, MD*; *Luigi Papi, MD*
- 11:30 AM – 1:00 PM **I49** **An Uncommon Cause of Gastrointestinal Bleeding in the Forensic Setting**
*Civan Altunkaynak, MD**; *S.E. Presnell, MD*; *Emma Hawkins, BS*
- 11:30 AM – 1:00 PM **I50** **Cassette Agitation as a Time-Saving Method to Improve Lung Insufflation and Histology**
*Catherine Perez, MD**; *Catherine Morris, MD*; *Teresa Nguyen, MD*; *Omar Rayes, MD*; *LokMan Sung, MD*
- 11:30 AM – 1:00 PM **I51** **Congenital Absence of the Left Circumflex Artery in Multiple Myocardial Ischemia: A Case Report**
*Francesca Capello, MD**; *Marta Moretti, MD**; *Gaetano Maria De Ferrari, MD, PhD*; *Giancarlo Di Vella, PhD*
- 11:30 AM – 1:00 PM **I52** **Death From an Unexpected Superior Venous Laceration During the Implantation of a Leadless Intracardiac Pacemaker: The Role of the Forensic Pathologist.**
*Alessandra Cicchini, MD**; *Camilla Bonci, MD**; *Giancarlo Di Vella, PhD*
- 11:30 AM – 1:00 PM **I53** **A Fatal Massive Hemoperitoneum From a Ruptured Corpus Luteum Cyst**
*Neil Haycocks, MD, PhD**; *Justin Lohmann, MD*; *Erik Christensen, MD*

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- 11:30 AM – 1:00 PM **I54** **An Intimal Sarcoma of the Abdominal Aorta: An Unexpected Finding Only Possible by Autopsy!**
Joana Madeira, MS; Eduardo Coutinho, MS; Rui Almeida, MS; João Fraga, MS; Mário Silva, MD; Maria Augusta Cipriano, MD*
- 11:30 AM – 1:00 PM **I55** **Looks Can Be Deceiving: Evaluating Beyond Hepatic Pathology in the Assessment of Chronic Alcoholism**
Kylila Tucker, BA; Juliette Scantlebury, MD*
- 11:30 AM – 1:00 PM **I56** **The Body in the Mirror: An Autopsy in a Case of Situs Inversus Totalis**
Martina Padovano, MD; Matteo Scopetti, MD; Tommaso Livieri, MD; Costantino Ciallella; Federico Manetti, MD; Paola Frati, PhD; Vittorio Fineschi, MD, PhD*
- 11:30 AM – 1:00 PM **I57** **The Fulminant Fat Emboli Syndrome: Two Autopsy Case Reports and the Use of Platelet and Fibrinogen Markers**
Laetitia Leveque; Elise Arbefeville, MD*; Eric Baccino, PhD; Pierre-Antoine Peyron, MD; Olivia Plé, MD; Aurélie Adriansen, MD*
- 11:30 AM – 1:00 PM **I58** **Acute Hemorrhagic Leukoencephalitis Features Associated with COVID-19: A Case Report and Literature Review**
Jolee Suddock, MD; Clarissa Krinsky, MD; Heather Jarrell, MD*
- 11:30 AM – 1:00 PM **I59** **An Overlook on the Contribution of Postmortem Molecular Biology for the Diagnosis of SARS-CoV-2-Related Systemic Thrombosis as Cause of Death**
Daniela Sapienza, MD; Chiara Stassi, MD*; Gennaro Baldino, MD; Cristina Musolino, BS; Teresa Pollicino, MD; Alessio Asmundo, MD*
- 11:30 AM – 1:00 PM **I60** **Lymphohistiocytic Myocarditis Following a Messenger RNA (mRNA) -Based COVID-19 Vaccine: A Case Report**
David Rosenbaum, MD; Jeffrey Barnard, MD*
- 11:30 AM – 1:00 PM **I61** **A Strategy for Effective Collection and Communication of Preliminary Forensic Information**
Benjamin DePrest; Lisa Kohler, MD; Kristy Waite, DO; Robert Shott, MD*
- 11:30 AM – 1:00 PM **I62** **The Identification Process of an Unidentified Transgender Woman**
Sonia Kominek, BA; Ellen Moffatt, MD*
- 11:30 AM – 1:00 PM **I63** **An Analysis of Changes in Protein Markers Since the Moment of Death (“Time 0”) for the Estimation of the Early Postmortem Interval (PMI): An Experimental Study**
Matteo Sacco, MD; Rocco Turturiello; Natalia Malara, PhD, MD; Saverio Gualtieri, MD*; Santo Gratteri, PhD, MD; Antonio Oliva, MS, PhD; Francesco Ausania, MD, PhD*; Nicola Pigaiani, MD*; Pietrantonio Ricci, PhD, MD; Isabella Aquila, PhD, MD**
- 11:30 AM – 1:00 PM **I64** **WITHDRAWN**
- 11:30 AM – 1:00 PM **I65** **A Comparative Use of Aqueous Humor 1H Nuclear Magnetic Resonance (NMR) Metabolomics and Potassium Concentration for Postmortem Interval (PMI) Estimation in an Animal Model**
Alberto Chighine, MD; Emanuela Locci, BS; Matteo Nioi, MD; Fabio De-Giorgio, MD; Roberto Demontis, MD; Rossella Gottardo, BS; Franco Tagliaro, MD; Ernesto d’Aloja, MD*

PATHOLOGY/BIOLOGY

- 11:30 AM – 1:00 PM **I66** **Metabolomics Improves the Histopathological Diagnosis of Asphyxial Deaths: An Animal Proof-of-Concept Model**
*Alberto Chighine, MD**; *Matteo Nioi, MD*; *Giulio Ferino, BS*; *Fabio De-Giorgio, MD*; *Ernesto d'Aloja, MD*; *Emanuela Locci, BS*
- 11:30 AM – 1:00 PM **I67** **Delayed Colonization of Concealed Carrion in a Laboratory Study**
*Jodie-A Warren, PhD**
- 11:30 AM – 1:00 PM **I68** **Evaluating Storage Solutions for Entomological Gene Expression Work to Better Coincide With Common Practices for Entomological Evidence**
*Joshua Smith, PhD**
- 11:30 AM – 1:00 PM **I69** **First Survey of Forensically Relevant Diptera in the Republic of the Gambia**
*Peter Dampha, BS**
- 11:30 AM – 1:00 PM **I70** **Forensically Important Insects Collected From Human Bodies in New Jersey**
*Denise Gemmellaro, PhD**; *Gloria Raise*; *Amanda Joy O'Connor, BS*; *Jessica Harlow, BA*; *Reagan McRae, BS*; *Andrew Falzon, MD*

Thursday—Session II

Multidisciplinary Session: Pathology/Biology and Toxicology

Moderator: TBD

Co-Moderator: TBD

- 1:00 PM – 1:15 PM **L46** **An Unusual Case of Misrepresented Cocaine Powder That Resulted in Fatal and Non-Fatal Intoxications Involving the Novel Synthetic Opioid Etodesnitazene**
*Alex Krotulski, PhD**; *Stephany Fiore, MD*; *Daniel Anderson, MS*; *Sara Walton, MS*; *Brianna Peterson, PhD*; *Donna Papsun, MS*; *Joshua DeBord, PhD*; *Barry Logan, PhD*
- 1:15 PM – 1:30 PM **L47** **I Believe I Can Fly: Hallucinogenic/Psychedelic Drugs Found in Fall-From-Height Cases in Miami-Dade County, Florida**
*Marissa Finkelstein, MS**; *George Hime, MS*; *Diane Boland, PhD*
- 1:30 PM – 1:45 PM **L48** **Synthetic Cannabinoids Adulterated With Brodifacoum—Part II: The Florida Experience**
*Robert Middleberg, PhD**; *Justin Arnold, DO, MPH*; *Alexandra Funk, PharmD*
- 1:45 PM – 2:00 PM **L49** **Adverse Effects of Veterinary Pharmaceuticals as Toxic Adulterating Agents in Illicit Drug Deaths**
*Barry Logan, PhD**; *Alex Krotulski, PhD*; *Amanda Mohr, MS*; *Thom Browne, Jr., MA*
- 2:00 PM – 2:15 PM **L50** **A Compilation of Postmortem Vitreous Fluid Data for Pediatric Cases**
*Breanne Vance, BA**; *Kari Midthun, PhD*; *Jennifer Swatek, MS*; *Fabio Oldoni, PhD*
- 2:15 PM – 2:30 PM **L51** **Postmortem Formation of Ethanol: Is N-Propanol a Reliable Marker? A Proof-of-Concept Study Using a Real-Environment Experimental Set-Up**
*Nicola Pigaiani, MD**; *Giacomo Musile, PhD*; *Francesco Ausania, MD, PhD*; *Daniel Dye, MD*; *Gregory Davis, MD*; *Franco Tagliaro, MD*; *Antonio Oliva, MD, PhD*; *Federica Bortolotti, PhD*

PATHOLOGY/BIOLOGY

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| 2:30 PM – 2:45 PM | L52 | A Quantitative Analysis of Fentanyl and Major Metabolites From Empty Puparia and Adult Blow Flies Via QuEChERS Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) Analysis <i>Joseph Cox, PhD*</i> ; Katherine Davis; Kylea Morris, BS; Rachel Mohr, PhD; Joseph DelTondo, DO; Luis Arroyo, PhD |
| 2:45 PM – 3:00 PM | L53 | Toxicology Laboratory Findings From the 2018 Census of Medical Examiner and Coroner Offices <i>Jeri Roper-Miller, PhD*</i> ; Hope Smiley-McDonald, PhD; Katherine Bollinger, MS |
| 3:00 PM – 3:15 PM | | BREAK |
| 3:15 PM – 3:30 PM | 171 | An Alleged Patricide by Americium-241 Poisoning <i>Wendy Gunther, MD*</i> |
| 3:30 PM – 3:45 PM | 172 | Fatal Butane Acute Intoxication in Custody—Pitfalls and Recommendations: An Analysis of Six Cases <i>Michela Peruch, BS*</i> ; Luigi Cipolloni, MD; Stefania De Simone, MD; Maria Chiara David, PhD; Monica Concato, BS; Martina Zanon, BS; Riccardo Addobbati, BS |
| 3:45 PM – 4:00 PM | 173 | Death as a Consequence of Cardiorespiratory Arrest Caused by a Cocaine-Induced Generalized Seizure: Toxicological Data in a Case Report <i>Isabella Mercurio, MD*</i> ; Laura Panata, MD; Michela Ferrara, MD; Mauro Bacci, MD; Cristina Gambelunghe, MD; Massimo Lancia, MD |
| 4:00 PM – 4:15 PM | 174 | Sodium Nitrite Poisoning: A Case Series of an Emerging Suicide Mechanism <i>Ethan Blocher-Smith, MS, DO*</i> ; Elizabeth Douglas, MD; Joseph Prahlow, MD |
| 4:15 PM – 4:30 PM | 175 | The Use of Over-the-Counter Tests to Detect Pregnancy in Postmortem Urine and Vitreous Fluid <i>Marianne Hamel, MD, PhD*</i> ; Andrew Falzon, DM |

Friday—Session I

2023 Jay Dix Lecture Series

Michael A. Graham, MD
Saint Louis University School of Medicine
St. Louis, MO

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| 9:00 AM – 9:10 AM | 176 | Jay Dix Memorial Bonus Day Introduction <i>Joseph A. Prahlow, MD*</i> ; Andrew M. Baker, MD*; James R. Gill, MD*; Susan F. Ely, MD*; Joyce L. deJong, DO* |
| 9:10 AM – 10:00 AM | 176 | Deaths Due to the Environment <i>Joseph A. Prahlow, MD*</i> |
| 10:00 AM – 10:15 AM | | BREAK |
| 10:15 AM – 11:05 AM | 176 | Firearms Injuries <i>Andrew M. Baker, MD*</i> |
| 11:05 AM – 12:00 PM | 176 | Blunt Force Injuries <i>James R. Gill, MD*</i> |

*Presenting Author

PATHOLOGY/BIOLOGY

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| 12:00 PM – 2:00 PM | | BREAK |
| 2:00 PM – 2:50 PM | I76 | Sudden Unexpected Deaths in Adults <i>Susan F. Ely, MD*</i> |
| 2:50 PM – 3:05 PM | | BREAK |
| 3:05 PM – 3:55 PM | I76 | Deaths Associated With Sports and Recreation <i>Joyce L. deJong, DO*</i> |

Friday—Session II

Forensic Entomology

Moderator: *TBD*

Co-Moderator: *TBD*

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| 8:00 AM – 8:15 AM | I77 | A Non-Destructive DNA Extraction Technique for Application on Insect Puparia (Diptera: Calliphoridae) <i>Sydnee Wedel, BSc; Jonathan Parrott, PhD*</i> |
| 8:15 AM – 8:30 AM | I78 | The American Board of Forensic Entomology-Certified Workshops: How Collaborative Efforts Between Researchers, Practitioners, and Professionals Continue to Refine and Strengthen the Discipline <i>Jennifer Rhinesmith-Carranza, DPhil*; Casey Flint, DPhil; Jeffery Tomberlin, PhD</i> |
| 8:30 AM – 8:45 AM | I79 | An Overview of the Decomposition Process During North Dakota Extreme Winter Temperatures <i>Lavinia Iancu, PhD*</i> |
| 8:45 AM – 9:00 AM | I80 | An Analysis of the Decomposition Process in Two Restricted-Access Environments in a Temperate Climate: Suitcases Versus Wheeled Bins <i>Hannah Andrews, MSc; Ian Dadour, PhD; Paola Magni, PhD*</i> |
| 9:00 AM – 9:15 AM | I81 | Decomposition in the Desert: An Analysis of Initial Insect Activity on Swine Remains <i>Lauren Weidner, PhD*</i> |
| 9:15 AM – 9:30 AM | I82 | Impacts of Climate Change in Forensic Entomology Casework <i>Michelle Sanford, MS, PhD*</i> |
| 9:30 AM – 9:45 AM | I83 | Generating Fluorescent Blow Fly Strains to Aid in the Validation of Postmortem Interval Estimates <i>Amber MacInnis, MS*; Andre Luis da Costa da Silva, PhD; Anthony Bellantuono, PhD; Matthew DeGennaro, PhD; Jeffrey Wells, PhD</i> |
| 9:45 AM – 10:00 AM | I84 | The Impact of Temperature and Diet on the Development of the House Fly, <i>Musca Domestica</i> (Linnaeus) (Diptera: Muscidae) <i>Casey Flint, DPhil*; Jennifer Rhinesmith-Carranza, DPhil; Riley Bell, BS; Jeffery Tomberlin, PhD</i> |
| 10:00 AM – 10:15 AM | | BREAK |

PATHOLOGY/BIOLOGY

Forensic Entomology and the Microbiome

Moderator: TBD

Co-Moderator: TBD

- 10:15 AM – 10:30 AM **I85** **The Influence of Biomass and Bisection of Remains on the Production of Necrophagous Flies**
*Samantha Sawyer, PhD**
- 10:30 AM – 10:45 AM **I86** **The Effect of Plastic Bags on Decomposition and Necrophagous Fly Composition**
*Kristi Bugajski, PhD**
- 10:45 AM – 11:00 AM **I87** **Cadaver Microbial Signatures of the Submandibular Glands and Thyroid for Forensic Investigations**
Sheree Finley, PhD; Matteo Moretti, MD; Silvia Visonà, PhD; Gulnaz Javan, PhD**
- 11:00 AM – 11:15 AM **I88** **Current Challenges in Protein Degradation-Based Postmortem Interval (PMI) Estimation**
Stefan Pittner, PhD; Fabio Monticelli, PhD*
- 11:15 AM – 11:30 AM **I89** **First Observations on the Environmental Impact of Terrestrial Body Decomposition Within a Canadian Continental, Humid (Dfb) Climate**
Emily PeCSI, BSc; Shari Forbes, PhD; Francois Guillemette, PhD*
- 11:30 AM – 11:45 AM **I90** **Metabolite Profiles and Expressed Microbial Metabolic Pathways in Human Decomposition-Impacted Soils**
Jennifer Baer, MS; Lois Taylor, PhD; Neal Stewart, PhD; Amy Mundorff, PhD; Dawnie Steadman, PhD; Jennifer DeBruyn, PhD*
- 11:45 AM – 12:00 PM **I91** **COVID-19 and Brain-Heart-Lung Crosstalk in the Cadaver Microbiome**
Gulnaz Javan, PhD; Sheree Finley, PhD; Matteo Moretti, MD; Silvia Visonà, PhD*
- 12:00 PM – 1:00 PM **BREAK**

Postmortem Imaging

Moderator: TBD

Co-Moderator: TBD

- 1:00 PM – 1:30 PM **I92** **Forensic Imaging Curriculum at a State-Wide Medical Investigator's Office: The New Mexico Experience**
Jamie Elifritz, MD; Lauren Decker, MD; Heather Jarrell, MD; Natalie Adolphi, PhD; Clarissa Krinsky, MD; Jolee T. Suddock, DO; Michael Harrell, MD*
- 1:30 PM – 1:45 PM **I93** **Micro-Computed Radiological Analysis of Traumatic vs. Iatrogenic Rib Fractures**
Giorgia Franchetti, MD; Simone Protani, MD; Ludovico Fava, MD; Paolo Fais, MD, PhD; Barbara Bonvicini, MD; Chiara Girauda, MD, PhD; Guido Viel, MD, PhD; Giovanni Cecchetto, MD, PhD*
- 1:45 PM – 2:00 PM **I94** **Playing With Fire: The Value and Pitfalls of Postmortem Computed Tomography (PMCT) for the Forensic Investigation of Burnt Bodies**
Antonio Oliva, MD, PhD; Simone Grassi, MD; Massimo Zedda, MD; Federica Maiolatesi, MD; Valentina Masini, MSc; Carlotta Amatucci, MD; Beatrice Defraia, MD; Rossella Grifoni, MD; Matteo Polacco, MD; Martina Focardi, MD; Laura Filograna, MD; Vilma Pinchi, PhD*
- 2:00 PM – 2:15 PM **I95** **WITHDRAWN**

PATHOLOGY/BIOLOGY

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| 2:15 PM – 2:30 PM | I96 | A Pilot Study to Investigate If and How Postmortem Micro-Computed Tomography (Micro-CT) Can Be Used to Differentiate Stillbirths From Livebirths <i>Francesco Lupariello, MD*</i> ; <i>Federica Mirri, MD</i> ; <i>Tullio Genova, PhD</i> ; <i>Federico Mussano, PhD</i> ; <i>Giovanni Botta, MD</i> ; <i>Giancarlo Di Vella, PhD</i> |
| 2:30 PM – 3:00 PM | I97 | Cold Eyes: Postmortem Iris Recognition Under Autopsy Procedures <i>Jordan Reining, BS*</i> ; <i>Kathryn Seigfried-Spellar, PhD</i> ; <i>Stephen Elliott, PhD</i> ; <i>Kevin O'Connor, MS</i> |
| 3:00 PM – 3:15 PM | | BREAK |

Pediatric Mortality and Molecular Studies

Moderator: TBD

Co-Moderator: TBD

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| 3:15 PM – 3:30 PM | I98 | Cardiac Genetic Background in Sudden Infant Death Syndrome (SIDS): Is It a Matter of Structure or Electrical Conduction? <i>Francesca Cazzato, MD*</i> ; <i>Simone Grassi, MD</i> ; <i>Mònica Coll, PhD</i> ; <i>Ramon Brugada, MD</i> ; <i>Antonio Oliva, MD, PhD</i> |
| 3:30 PM – 3:45 PM | I99 | A Case of Renal Failure Secondary to Rhabdomyolysis in an Infant <i>Amanda Saunders, BS*</i> ; <i>Sarah Avedschmidt, MD</i> |
| 3:45 PM – 4:15 PM | I100 | An Infant Death Due to COVID-19 Infection With Recovery and Survival of a Twin Sibling: A Comparison of Autopsy and Histologic Findings in Pediatric and Adult Cases and a Review of the Surviving Twin's Course <i>Jennifer Ross, MD*</i> ; <i>Arezo Nasrazadani, MD</i> ; <i>Michelle Ruda, MD</i> |
| 4:15 PM – 4:45 PM | I101 | Postmortem Genetic Testing in Sudden Unexplained Death: A Public Health Laboratory Experience <i>Charles Rohrer, MD*</i> ; <i>Angela Lager, PhD</i> ; <i>Erin Brooks, MD</i> ; <i>Vanessa Horner, PhD</i> |
| 4:45 PM – 5:00 PM | I102 | The Role of Myocardial Biomarkers in Sudden Cardiac Death: Forensic Utility <i>Vincenzo Ritorto, MD*</i> ; <i>Matteo Sacco, MD*</i> ; <i>Fabrizio Cordasco, MD</i> ; <i>Carmen Scalise, PhD, MD</i> ; <i>Angelica Zibetti, MD</i> ; <i>Martino Maesani, MD</i> ; <i>Umberto Rosini, MD</i> ; <i>Maria Manno, MD</i> ; <i>Pietrantonio Ricci, PhD, MD</i> ; <i>Isabella Aquila, PhD, MD*</i> |

Poster Session

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| 11:30 AM – 1:00 PM | I103 | An Unusual Case of Self-Poisoning With Sodium Nitrite in an Asthmatic Patient <i>Isabella Caristo, MD*</i> ; <i>Brenda Briasco, MD</i> ; <i>Ilaria Grasso, MD</i> ; <i>Francesco Ventura, MD, PhD</i> |
| 11:30 AM – 1:00 PM | I104 | Dying From an Antidote: A Case of Intravenous Lipid Emulsion Overdose in a Suspected Anesthetic Intoxication <i>Ilaria Marcacci, MD*</i> ; <i>Carla Occhipinti, MD</i> ; <i>Federica Spina, MD</i> ; <i>Andrea Scatena, MD</i> ; <i>Marco Di Paolo, MD</i> |
| 11:30 AM – 1:00 PM | I105 | Herbicide, Fungicide, Suicide: A Case of Glyphosate and Lime Sulfur (Calcium Polysulfide) Poisoning <i>Neil Haycocks, MD, PhD*</i> ; <i>Justin Lohmann, MD</i> ; <i>Erik Christensen, MD</i> |
| 11:30 AM – 1:00 PM | I106 | A Homicidal Poisoning Disguised by Drowning: How Stomach Content Analysis Helped to Solve the Mystery <i>Eduardo Coutinho, MD*</i> ; <i>Sara Adriazola, MD</i> ; <i>Ricardo Mendonca, MD</i> ; <i>João Pinheiro, MD</i> |

PATHOLOGY/BIOLOGY

- 11:30 AM – 1:00 PM **I107** **A Homicidal Poisoning With Amlodipine**
*Federica Spina, MD**; *Andrea Scatena, MD*; *Arianna Baronti, MD*; *Andrea Costantino, MD*;
Luigi Papi, MD; *Silvio Chericoni, PhD*; *Fabio Stefanelli, PhD*
- 11:30 AM – 1:00 PM **I108** **WITHDRAWN**
- 11:30 AM – 1:00 PM **I109** **Metformin Fatal Intoxication: Suicide or Accident?**
*Giacomo Visi, MD**; *Federica Spina, MD*; *Eleonora Mezzetti, MD*; *Luigi Papi, MD*;
Fabio Stefanelli, PhD; *Silvio Chericoni, PhD**
- 11:30 AM – 1:00 PM **I110** **Morphine Toxicity on Endothelial Differentiation of Vascular Mesenchymal Stromal Cells**
Maria Carla Mazzotti, MD; *Guido Pelletti, MD**; *Arianna Giorgetti, MD**; *Paolo Fais, MD, PhD*;
Susi Pelotti, MD
- 11:30 AM – 1:00 PM **I111** **Sudden Death Due to Methamphetamine-Associated Pulmonary Hypertension: A Case Report**
*Rasmey Thach, DO**
- 11:30 AM – 1:00 PM **I112** **The Role of Carbon Dioxide in Death Related to Must Exhalations: Case Scenarios and Toxicological Results in Comparison**
*Matteo Sacco, MD**; *Carmen Scalise, PhD, MD*; *Fabrizio Cordasco, MD*; *Saverio Gualtieri, MD**;
Maria Manno, MD; *Martino Maesani, MD*; *Umberto Rosini, MD*; *Angelica Zibetti, MD*;
Pietrantonio Ricci, PhD, MD; *Isabella Aquila, PhD, MD**
- 11:30 AM – 1:00 PM **I113** **Unravelling the Mechanism of Death Through Urine Metabolome Analysis: An Infant Methadone Intoxication**
*Alberto Chighine, MD**; *Matteo Nioi, MD*; *Giulio Ferino, PhD*; *Emanuela PhD*;
Ernesto d'Aloja, MD
- 11:30 AM – 1:00 PM **I114** **A Hepatic Hemangiosarcoma Presumed by Imaging as a Hemangioma: A Case Report and Literature Review**
*Lance Truong, DO**; *Yigit Baykara, MD*; *Sean Hacking, MB, BCh*; *Ayesha Siddique, MD*;
Priya Banerjee, MD
- 11:30 AM – 1:00 PM **I115** **Postmortem Magnetic Resonance Imaging and Forensic Pathology: An Ever-Closer Relationship**
*Giuseppe Bertozzi, MD**; *Francesco Pio Cafarelli, MD*; *Fabio Mariottini, MD*;
*Michela Ferrara, MD**; *Valentina Milone, MD*; *Maria Antonella Bosco, MD*;
Francesco Carpano, MD; *Raffaele La Russa, MD*
- 11:30 AM – 1:00 PM **I116** **The Use of Hand-Held Scanners in Forensic Traumatology**
*Jacopo Agnolucci, MD**; *Francesco Angiola, MD*; *Enrica Callegari, MD*;
Enrico Mazzobel, MD; *Tommaso Livieri, MD*; *Paolo Fais, MD, PhD*;
Arianna Giorgetti, MD; *Giovanni Cecchetto, MD, PhD*; *Guido Viel, MD, PhD*
- 11:30 AM – 1:00 PM **I117** **Coronary Myointimal Hyperplasia: A Rare Cause of Sudden Young Death**
*Mariagrazia Calvano, MD**; *Sara Sablone, MD*; *Federica Mele, MD*; *Mirko Leonardelli, MD*;
Enrica Macorano, MD; *Stefano Duma, MD*; *Giovanni De Gabriele, MD*; *Francesco Introna, MD*
- 11:30 AM – 1:00 PM **I118** **Elder Abuse in Europe's "Most Elderly City": A Ten-Year Report (2010 – 2019)**
*Martina Drommi, MD**; *Francesco Ventura, MD, PhD*; *Andrea Molinelli, MD, PhD*

PATHOLOGY/BIOLOGY

- 11:30 AM – 1:00 PM **I119** **An Epidemiology Analysis of a Medical-Legal Investigation of Child and Adolescent Fatalities in Taiwan**
Chang Jui-An, MS; Chen Hsiao-Ting, BS; Tsai Theodore; Shaw Kai-Ping, PhD; Hsu Cho-Hsien, MD*
- 11:30 AM – 1:00 PM **I120** **Extreme Shortness of the Umbilical Cord: A Case Report**
ilena Russo, MD; Andreana N.M. Maglitto, MD*; Giuliana Pennisi, MD; Salvatore Iannuzzi, MD; Pietro Mazzeo, MD; Monica Salerno, MD, PhD*
- 11:30 AM – 1:00 PM **I121** **Fatal Fistulas: A Case Report of Fatal Button Battery Ingestion in a 13-Month-Old With a Literature Review**
Romana Mayer, MD; Michelle DiMarco, MD; Rachel Geller, MD*
- 11:30 AM – 1:00 PM **I122** **Juvenile Suicide Trends: A Comparative Analysis of Factors Surrounding Georgia’s Child and Teen Deaths**
Cody Archer, BS; Samantha Mattox, DO; Elizabeth Andrews, BS; John Carter, PhD, MPH; Natasha Grandhi, MD*
- 11:30 AM – 1:00 PM **I123** **Kennel Cough: A Case of a Lethal Bordetella Bronchiseptica Infection in an Infant**
Simmi Patel, MD; Todd Luckasevic, DO*
- 11:30 AM – 1:00 PM **I124** **Neonatal Pulmonary Hemorrhage: A Hazardous Disease**
Paola Santoro, MD; Fabio Del Duca, MD; Gianpietro Volonnino, MD; Ilaria Marcacci, MD; Alessandra De Matteis, MD; Aniello Maiese, MD*
- 11:30 AM – 1:00 PM **I125** **An Unexpected Pulmonary Embolism in an Adolescent: A Case Report and Literature Review**
Bradley Conlin, BS, MS; Merete Lund, BS*; Nicole Masian, MD; Wendy Gunther, MD*