

PATHOLOGY/BIOLOGY

Wednesday

Poster Session

11:30 AM – 1:00 PM	I1	Fatal Pesticide Ingestion Involving Boric Acid: A Case Report and Review of the Literature <i>Ashley Lukefahr, MD*</i>
11:30 AM – 1:00 PM	I2	WITHDRAWN
11:30 AM – 1:00 PM	I3	A Sudden Unexpected Death From a Rupture of the Pulmonary Artery in Patients With Systemic Autoimmune Diseases <i>Sharon Duzioni, MD*; Donna Gherardi, MD; Paolo Nozza, MD; Francesco Ventura, MD, PhD</i>
11:30 AM – 1:00 PM	I4	An 11-Year Review of Fall Deaths Due to Head Trauma Reported in Shelby County, TN <i>Madison Benton, BS*; Erica Curry, MD</i>
11:30 AM – 1:00 PM	I5	Cause and Manner of Death in New Mexico's Unhoused Population, 2014–2018 <i>Elyssa Glassheim, MD*; Lauren Dvorscak, MD; Sarah Lathrop, DVM, PhD; Garon Bodor, MS; Neil Greene, PhD</i>
11:30 AM – 1:00 PM	I6	Under Pandemic Pressure: A Four-Year Review of Suicidal Deaths in Shelby County, Tennessee, With Emphasis on the Effect of COVID-19 <i>Jacob Williams*; Scott Collier, DM; Danielle Harrell, DO</i>
11:30 AM – 1:00 PM	I7	A Case of Death Resulting From an Unrecognized Wilms Tumor in a 4-Year-Old Child <i>Isabella Caristo, MD*; Rosario Barranco, MD, PhD; Paolo Nozza, MD; Francesco Ventura, MD, PhD</i>
11:30 AM – 1:00 PM	I8	Considerations of Decedent General Health Parameters During Determination of Cause of Death in Persons Abusing Substances <i>Clare Hartman*; Chandler M. Grant, MS; Michael W. Johnson, MD, PhD</i>
11:30 AM – 1:00 PM	I9	Fat Embolism Syndrome in a Patient With Osteogenesis Imperfecta: A Textbook Case <i>Francesco Carravetta, DM*; Marcello Benevento, MD; Cristina Caterino, DM; Simona Nicoli, DM; Antonio Straface, MD; Laura Ambrosi; Biagio Solarino</i>
11:30 AM – 1:00 PM	I10	Ligature Strangulation Utilizing Cable Ties: An Unusual Means of Suicide in Italy <i>Roberta Mercuri, MD*; Valentina Calamano, MD; Federica Gamba, MD; Francesco Ventura, MD, PhD; Camilla Tettamanti, MD, PhD</i>
11:30 AM – 1:00 PM	I11	Chasing Euphoria: When Butane Inhalation Leads to Death <i>Naomi Iaconi, MD*; Julia Lazzari, MD; Carla Occhipinti, MD; Ilaria Marcacci, MD; Aniello Maiese, PhD; Fabio Stefanelli, PhD</i>
11:30 AM – 1:00 PM	I12	Acute or Chronic Myocarditis? Or Is It Budd-Chiari Syndrome? A Peculiar Case of Multi-Organ Failure in a Subject With SARS-CoV2 Infection <i>Eleonora Mezzetti, MD*; Matteo Leoni, MD; Giulia Berneschi, MD; Arianna Baronti, MD; Naomi Iaconi, MD*; Marco Di Paolo, MD</i>
11:30 AM – 1:00 PM	I13	Anosmia and COVID-19: The Search for the Virus in the Brain Through Immunohistochemical Investigations With the Anti-SARS-CoV-2 Antibody <i>De Simone Stefania, MD*; Maria Antonella Bosco, MD; Giacani Elena, MD; Gurgoglione Giovanni, MD; Isabella Di Marzo, MD; Raffaele La Russa, MD, PhD*; Luigi Cipolloni, MD*</i>

PATHOLOGY/BIOLOGY

11:30 AM – 1:00 PM	I14	Oxidative Stress Markers in the Human Brain and Placenta May Reveal the Timing of Hypoxic-Ischemic Injury: Evidence From an Immunohistochemical Study <i>Benedetta Baldari, MD*; Margherita Neri, MD PhD*; Giacani Elena, MD; De Simone Stefania, MD*; Rinaldi Giuseppe, MD; Vittorio Simona, MS*; Luigi Cipolloni, MD*</i>
11:30 AM – 1:00 PM	I15	Starvation-induced Hepatocyte Changes: Light and Electron Microscopy Findings in Two Pediatric Homicide Cases <i>Maria Elisa Smith, MD*; Zabiullah Ali, MD</i>
11:30 AM – 1:00 PM	I16	Macrophage Activation Syndrome Following Administration of the ChAdOx1 nCoV-19 Vaccine: A Case Study <i>Corinne La Spina*; Giuseppe Davide Albano; Giuliana Malandrino, MD; Giovanni Cannella; Dario Scaglione, MD; Emiliano Maresi; Stefania Zerbo</i>
11:30 AM – 1:00 PM	I17	A Delayed Traumatic Intracranial Hemorrhage With Antithrombotic Medication: A Report of an Autopsy Case and Verification in an Animal Model <i>Kazuhiko Kibayashi, MD*</i>
11:30 AM – 1:00 PM	I18	Delayed Traumatic Rupture of the Spleen in a Patient with Mantle Cell Non-Hodgkin Lymphoma: Histopathological and Immunohistochemistry Aspects <i>Giuseppe Davide Albano; Vanessa Milazzo, MD; Mario Spano, MD*; Maria Puntarello; Emiliano Maresi; Stefania Zerbo; Antonina Argo</i>
11:30 AM – 1:00 PM	I19	Combined Mechanical Asphyxia by Strangulation and Immobilization of the Chest in a Case of Matricide <i>Francesca Consalvo, MD*; Matteo De Simone*; Martina Padovano, MD; Matteo Scopetti, MD; Pasquale Ardovino, MD; Alessandro Santurro, MD, PhD*</i>
11:30 AM – 1:00 PM	I20	Unknown Heart Disease and Sudden Cardiac Death: The Role of Postmortem Investigations <i>Matteo Antonio A. Sacco, MD*; Margherita Sgroi, MD; Luca Calanna, MD; Maria Cristina Verrina, MD; Giulio Pulpito, MD*; Alessandro Pasquale Tarallo, MD*; Wandamaria Mazzuca; Pietrantonio Ricci, PhD, MD; Isabella Aquila, PhD, MD*</i>
11:30 AM – 1:00 PM	I21	Sudden Cardiac Death in a Man With a Functioning Implantable Cardioverter-Defibrillator <i>Federica Ministeri, MD*; Federico Privitera, MD; Grazia Giulia Pantè; Cristoforo Pomara, MD</i>
11:30 AM – 1:00 PM	I22	Unraveling Unusual Mediastinal Anatomy Alterations Through Postmortem CT and Multiparametric 3-D Reconstructions: A Case Series of Major Trauma <i>Mauro Midiri*; Giuseppe Davide Albano; Corinne La Spina; Maria Puntarello; Valeria Giglio, MD; Erika Serena Sorrentino; Giuseppe Io Re; Antonina Argo</i>
11:30 AM – 1:00 PM	I23	The Role of Optical Coherence Tomography in Sudden Cardiac Death: Insights and Future Perspectives in Forensic Sciences Through a Case Series of Spontaneous Coronary Artery Dissection <i>Giovanni Gurgoglione, MD*; Maria Antonella Bosco, MD*; Giuseppe Rinaldi, MD*; Stefania De Simone, MD; Elena Giacani, MD; Luigi Cipolloni, MD*; Francesco Prari, MD, PhD*</i>
11:30 AM – 1:00 PM	I24	The Role of Radiological Investigations and the Postmortem Laboratory in an Enigmatic Suicide Case: Between Doubts and Certainties <i>Isabella Aquila, PhD, MD*; Matteo Antonio A. Sacco, MD*; Alessandro Schettini; Valerio Riccardo Aquila; Maria Cristina Verrina, MD; Luca Calanna, MD*; Felice Francesco Carabellese, MD</i>

PATHOLOGY/BIOLOGY

Thursday

Poster Session

11:30 AM – 1:00 PM	I25	A Case of Dismemberment in Italy: A Multidisciplinary Approach to Put the Pieces Together <i>Luca Diani, MD*</i> ; <i>Michele Carpinteri, MD</i> ; <i>Laura Camilla Gasparini, MD</i> ; <i>Giada Rovito, MD</i> ; <i>Irene Pradelle, MD</i> ; <i>Enrica Callegari, LM</i> ; <i>Rosa M. Gaudio, MD, PhD</i> ; <i>Giovanni Cecchetto, MD, PhD</i> ; <i>Margherita Neri, MD PhD</i> ; <i>Omar Bonato, MD</i>
11:30 AM – 1:00 PM	I26	A Rare Case of Homicide by Air Rifle <i>Joshua Smith, PhD*</i> ; <i>Tiffany Hollenbeck, DO</i>
11:30 AM – 1:00 PM	I27	The Cerulean Man: A Case of Argyria <i>Alfonzo Halfin*</i> ; <i>Todd M. Luckasevic, DO</i> ; <i>Karl E. Williams, MD, NPH</i>
11:30 AM – 1:00 PM	I28	Analysis of a Case of Neonatal Precipitation: Feticide or Infanticide? <i>Francesca Consalvo, MD*</i> ; <i>Matteo De Simone*</i> ; <i>Pasquale Ardovino, MD</i> ; <i>Martina Padovano, MD</i> ; <i>Matteo Scopetti, MD</i> ; <i>Alessandro Santurro, MD, PhD*</i>
11:30 AM – 1:00 PM	I29	Death Due to Aggression by Maremman Dogs: The Role of Forensic Sciences in the Reconstruction of the Case <i>Matteo Antonio A. Sacco, MD*</i> ; <i>Francesco Maria Galassi</i> ; <i>Elena Varotto, PhD</i> ; <i>Laura Landini, MA</i> ; <i>Maria Cristina Verrina, MD*</i> ; <i>Luca Calanna, MD</i> ; <i>Wandamaria Mazzuca*</i> ; <i>Roberto Raffaele*</i> ; <i>Pietrantonio Ricci, PhD, MD</i> ; <i>Isabella Aquila, PhD, MD*</i>
11:30 AM – 1:00 PM	I30	A Case of Fatal Hemorrhage: Natural or Violent Death? A Deceptive Crime Scene <i>Gennaro Baldino, MD*</i> ; <i>Cristina Mondello, MD</i> ; <i>Giorgia Burrascano, MD*</i> ; <i>Domenicantonio Iannello, MD</i> ; <i>Alessio Asmundo, MD</i> ; <i>Elvira Ventura Spagnolo, MD*</i>
11:30 AM – 1:00 PM	I31	Transorbital Orbitocranial Penetrating Injuries (TOPI): A Report of Two Cases <i>Tancredi Dino Mario, MD</i> ; <i>Bibbò Roberta, MD*</i> ; <i>Benedetta Baldari, MD</i> ; <i>Maria Antonella Bosco, MD*</i> ; <i>Carpano Francesco, MD</i> ; <i>Moro Diego, MD</i> ; <i>Luigi Cipolloni, MD*</i>
11:30 AM – 1:00 PM	I32	Complex Suicide by Gunshot and Hanging <i>Eugenio Jacopo Piero Gallotti, MD*</i> ; <i>Dario Galatone</i> ; <i>Chiara Franzetti, MD</i> ; <i>Mattia Arturi, MS</i> ; <i>Luca Tajana, MD</i> ; <i>Matteo Moretti, MD</i> ; <i>Gulnaz T. Javan, PhD</i> ; <i>Silvia D. Visonà, MD, PhD</i> ; <i>Luca Morini, PhD</i>
11:30 AM – 1:00 PM	I33	Black Esophagus and Diabetic Ketoacidosis: A Report of an Autopsy Case <i>Nicolo' Vernazza, MD*</i> ; <i>Cristiano Micera, MD</i> ; <i>Francesca Buffelli, MD</i> ; <i>Francesco Ventura, MD, PhD</i> ; <i>Camilla Tettamanti, MD, PhD</i>
11:30 AM – 1:00 PM	I34	A Blunt Force Injury to the Chest Caused by Firework Misuse: A Case Report <i>Roa Alqabbani*</i> ; <i>Melissa A. Brassell, MD</i>
11:30 AM – 1:00 PM	I35	Frail Elder Abuse in Long-Term Care Facilities: A Suspected Case of Atypical Asphyxia <i>Roberta Mercuri, MD*</i> ; <i>Filippo Spigno, MD</i> ; <i>Sara Lo Pinto, MD</i> ; <i>Francesco Ventura, MD, PhD</i>
11:30 AM – 1:00 PM	I36	Sudden Death Secondary to Colloid Cyst of the Third Ventricle: A Case Review <i>Erin Flaherty*</i> ; <i>Christine James, DO</i> ; <i>Amanda O. Fisher-Hubbard, MD</i> ; <i>Allison L. Deemter, MA</i>

PATHOLOGY/BIOLOGY

11:30 AM – 1:00 PM	I37	Marjolin's Ulcers in the Forensic Setting: When Cancer Becomes a Homicide <i>Kamilah Fernandez, MD*</i> ; <i>Stephanie A. Dean, MD</i>
11:30 AM – 1:00 PM	I38	Oxidative Stress in Sepsis: A Focus on Cardiac Pathology <i>Giuseppe Bertozzi, MD*</i> ; <i>Raffaele La Russa, MD, PhD*</i> ; <i>Domenico Martinelli, MD, PhD</i> ; <i>Santina Cantatore, MLT</i> ; <i>Luigi Cipolloni, MD*</i>
11:30 AM – 1:00 PM	I39	Blunt Force Trauma and Aspiration of Gastric Contents: What Is the Cause of Death? An Unusual Case <i>Luca Tomassini*</i> ; <i>Manta Anna Maria, MD*</i> ; <i>Piergiorgio Fedeli</i> ; <i>Cristiana Gambelunghe, PhD</i> ; <i>Massimo Lancia, MD</i>
11:30 AM – 1:00 PM	I40	Dealing With a Massive Number of Victims Due to an Accidental Fire <i>Amir Hamuod*</i>
11:30 AM – 1:00 PM	I41	Bee-Ware of MDPHP: A Case of Intoxication by Synthetic Cathinones Resulting in Hundreds of Bee Stings <i>Jacopo Chirillo, DM</i> ; <i>Pietro Clemente C. Salmoirago, MD*</i> ; <i>Claudia Carelli</i> ; <i>Mirella Sabatino, MD</i> ; <i>Valeria Prandini, MD</i> ; <i>Greta Seveso, DM</i> ; <i>Simone Turpini, MD</i> ; <i>Carlo Previderè</i> ; <i>Luca Tajana, MD</i> ; <i>Luca Morini, PhD</i>
11:30 AM – 1:00 PM	I42	When a Nursing Home Turns Into a Killing Home—Forensic Aspects of Serial Murder in Health Care: A Case of a Serial Killer Nurse <i>Federica Spina, MD*</i> ; <i>Giacomo Visi, MD*</i> ; <i>Eleonora Mezzetti, MD</i> ; <i>Andrea Costantino, MD</i> ; <i>Antonello Di Paolo, MD</i> ; <i>Silvio Chericoni, PhD</i> ; <i>Fabio Stefanelli, PhD</i>
11:30 AM – 1:00 PM	I43	Respiratory Illness Surveillance in Suspected Drug-Related Deaths <i>Abigail J. Grande, BS, MPH*</i> ; <i>Asmaa Obead, MBChB, MPH</i> ; <i>Gemma Harkin, BS, MPH</i> ; <i>Joyce L. deJong, DO</i> ; <i>Amanda O. Fisher-Hubbard, MD</i> ; <i>Christine M. Pink, PhD</i>
11:30 AM – 1:00 PM	I44	Comparing Manner of Death in Georgia Prison and Jail Populations <i>Alexander Yue, BS, BA*</i> ; <i>Rachel Geller, MD</i> ; <i>Sandra P. Reynolds, MD</i> ; <i>Ashley Garrish</i>
11:30 AM – 1:00 PM	I45	The Effect of Preservation, Time, and Temperature on DNA Recovery of Blow Fly Specimens (Diptera: Calliphoridae) <i>Kathryn Melancon*</i> ; <i>Sydnee N. Wedel, BSc</i> ; <i>Jonathan J. Parrott, PhD</i>
11:30 AM – 1:00 PM	I46	The Succession of Invertebrate Communities Involved in Swine Decomposition in Freshwater Environments in Italy <i>Andrea Benassi, PhD, MS*</i> ; <i>Gloria Raise</i> ; <i>Nicholas Lorusso</i> ; <i>Denise Gemmellaro, PhD*</i>
11:30 AM – 1:00 PM	I47	The Persistence of DNA in Water From an Actively Decomposing Cadaver for Human Identification <i>Anna Mae Adkins, BS*</i> ; <i>Rachel Houston, PhD</i> ; <i>Sheree R. Hughes, BSc, PhD</i> ; <i>Haeli Kennedy, BS</i> ; <i>Hannah K. Cervenka, BS</i>

PATHOLOGY/BIOLOGY

Thursday—Session I

2024 Jay Dix Lecture Series

Moderator: Michael Graham

9:00 AM – 9:10 AM	I107	2024 Jay Dix Day Memorial Lecture Series <i>Michael A. Graham, MD*</i> ; <i>Joseph A. Prahlow, MD*</i> ; <i>Andrew Baker, MD*</i> ; <i>James L. Caruso, MD*</i> ; <i>Susan F. Ely, MD*</i> ; <i>Katherine Maloney, MD*</i> ; <i>James R. Gill, MD*</i>
9:10 AM – 9:50 AM	I107	Postmortem Changes <i>Joseph A. Prahlow, MD*</i>
9:50 AM – 10:15 AM		BREAK
10:15 AM – 11:05 AM	I107	Firearm Injuries <i>Andrew Baker, MD*</i>
11:05 AM – 12:00 PM	I107	Deaths Involving Watery Environments <i>James L. Caruso, MD*</i>
12:00 PM – 2:00 PM		BREAK
2:00 PM – 2:50 PM	I107	Asphyxia <i>Susan F. Ely, MD*</i>
2:50 PM – 3:05 PM		BREAK
3:05 PM – 3:55 PM	I107	Not Just Small Adults: Essentials of Pediatric Pathology <i>Katherine Maloney, MD*</i>
3:55 PM – 5:00 PM	I107	Sharp Force Injuries <i>James R. Gill, MD*</i>

Thursday—Session II

COVID-19 and Other Causes of Death

8:30 AM – 8:45 AM	I48	Death From Angioedema With Anaphylaxis and COVID-19 <i>Lakshmanan Sathyavagiswaran, MD*</i> ; <i>Richard Ou, MD</i> ; <i>J Daniel Augustine, MD</i>
8:45 AM – 9:00 AM	I49	Deaths Due to COVID-19 Infection in Children and Young People Aged 0–19 at the Harris County Institute of Forensic Sciences in Houston, Texas <i>Jennifer L. Ross, MD*</i>
9:00 AM – 9:15 AM	I50	Drowning Associated With Carbon Monoxide Toxicity in the Setting of Recreational Boating <i>Reba Sue Cherian, DO*</i> ; <i>Leticia Schuman, MD</i> ; <i>Brad Hall, PhD</i> ; <i>J. Keith Pinckard, MD, PhD</i>
9:15 AM – 9:30 AM	I51	A Cornucopia of Death by Gas: Fatalities Involving Organic and Inorganic Gases <i>Hannah C. Jarvis, MBBS, MRCS*</i> ; <i>Gregory Dickinson, MD, MS</i>

PATHOLOGY/BIOLOGY

9:30 AM – 9:45 AM	I52	The Postmortem Utility of Neuron-Specific Enolase and S100B for Differentiating Traumatic Brain Injury From Other Causes of Death <i>Siddhartha Das, MBBS, MD*</i>
9:45 AM – 10:00 AM	I53	The Clarksburg Insulin Murders <i>Paul S. Uribe, MD*; Katherine A. Grosso, MA, BS*; Colin F. Davis*; Keith G. Vereb*; Jarod Douglas*</i>
10:00 AM – 10:15 AM	I54	A Complex Suicide With Over 250 Sharp Force Injuries and Falling From Height <i>Maya Neumann*; Wolfgang Grellner, MD</i>
10:15 AM – 10:30 AM		BREAK

Pediatric Deaths

10:30 AM – 10:45 AM	I55	Medicolegal Pediatric Natural Deaths: Causes of Death and Demographics <i>John W. Powell, MD*; Hannah C. Jarvis, MBBS, MRCS; Melissa M. Blessing, DO</i>
10:45 AM – 11:00 AM	I56	An Unusual Form of Sudden Infant Death in the Arctic <i>Cristin Marie Rolf, MD*</i>
11:00 AM – 11:15 AM	I57	Child Abuse Diagnostic Work-Up: Let's Put on Our Thinking Caps <i>Anita Sammarco, MD*; Pierpaolo Di Lorenzo, MD; Maria Pieri; Mariagrazia Marisei, MD; Gaetano Di Donna, MD; Fabio Policino; Emanuele Capasso, MD; Massimo Niola, PhD</i>
11:15 AM – 11:30 AM	I58	Suicides in Childhood and Adolescence: A Ten-Year Study From Jefferson County, Alabama <i>Nicola Pigaiani, MD*; Daniel W. Dye, MD; Daniel S. Atherton, MD; Francesco Ausania, MD, PhD; Federica Bortolotti, MD, PhD; Gregory G. Davis, MD, MSPH; Brandi C. McCleskey, MD</i>
11:30 AM – 11:45 AM	I59	Changes to the Certification of Sudden Unexplained Deaths in Infants From 2012 to 2023 <i>Amanda Lynne Marinello, BS*; Brandi C. McCleskey, MD</i>
11:45 AM – 12:00 PM	I60	A Histological Examination of the Uterus to Confirm Early Pregnancy in Female Homicide Victims <i>Marianne Hamel, MD, PhD*; Andrew F. Falzon, MD, MCS</i>
12:00 PM – 1:00 PM		BREAK

Case Reports

1:00 PM – 1:15 PM	I61	Multiple Shots of Different Firearms in a Charred Corpse: A Case Report <i>Mattia Arturi, MS*; Martina Demasi, MD; Nicolas Martinelli; Pierangela Grignani; Francesca Freni, MS; Yao Chen, MD</i>
1:15 PM – 1:30 PM	I62	A Macro and Micro Time-Dependent Washer Woman Wrinkling and Reversibility Trivialized in a Bathtub Drowning: A Case Presentation <i>Pete Speth, MD*</i>
1:30 PM – 1:45 PM	I63	Complete Laryngotracheal Separation Without Decapitation in a Case of Hanging: An Uncommon Phenomenon <i>Nilesh Keshav Tumram, MBBS, MD*</i>

PATHOLOGY/BIOLOGY

1:45 PM – 2:00 PM	I64	One House, Two Bodies: A Case Series and Considerations for Investigating Companion “Double Deaths,” Including Challenges in the “Philemon and Baucis” Syndrome <i>Deland Weyrauch, MD*; Christopher Borck, MD</i>
2:00 PM – 2:15 PM	I65	A Diamond in the Rough—Myocardial Infarction as a Complication of “Near Hanging” in an Adolescent: An Exceptionally Rare-Find Case Report <i>Barbara Iga Smyk, DM*; José Jerónimo Fonte-Santa da Silva</i>
2:15 PM – 2:30 PM	I66	A Macro and Micro Time-Dependent Washer Woman Wrinkling and Reversibility in a Bathtub Drowning Case: 20th-Century German Research Proves Innocence <i>Pete Speth, MD*</i>
2:30 PM – 2:45 PM	I67	Deaths Involving Forklifts in Cook County, Illinois: A Retrospective Review <i>Megan Kinn, DO, MS*; Lorenzo Gitto, MD; David M. Waters, MD</i>
2:45 PM – 3:00 PM	I68	Myocardial Scarring and Interstitial Fibrosis: An Unknowable, Unpredictable, and Unavoidable Tragedy <i>Gerald Feigin, MD*; Priya Banerjee, MD; Gil Sapir, JD, MSc</i>
3:00 PM – 3:15 PM	I69	Death by Lung Hypoplasia as a Result of a Bilateral Congenital Diaphragmatic Hernia <i>Maya Neumann*; Wolfgang Grellner, MD</i>
3:15 PM – 3:30 PM		BREAK

Interdisciplinary Approach

3:30 PM – 3:45 PM	I70	Utilizing an In-House Forensic Epidemiologist in the Denver Office of the Medical Examiner <i>Ami L. Jackson, DO*; Meredith A. Frank, MD; Ethan Jamison, MPH; James L. Caruso, MD; Ian J. Puffenberger, MD; Sterling J. McLaren, MD</i>
3:45 PM – 4:00 PM	I71	A Multidisciplinary Approach to the Canonical Recognition Activities Conducted on the Bone Remains Attributed to St. Hippolitus and the Martyrs Crescentius and Irenaeus (4th Century AD) <i>Francesca Consalvo, MD*; Alessandro Santurro, MD, PhD*; Carmen Sementa, MD; Chantal Milani, DMD, PhD; Francesca Motta; Francesco La Sala, MD; Sergio Brogna, MD</i>
4:00 PM – 4:15 PM	I72	A Death in the Setting of Diabetic Ketoacidosis and Concurrent SGLT2 Inhibitor Use <i>Christopher Sullivan*; Angelina Phillips, MD</i>
4:15 PM – 4:30 PM	I73	Death Caused by Wild Animals: <i>Ex Africa Semper Aliquid Novi</i> (Out of Africa There Is Always Something New) <i>Gert Saayman, FCFORPath*</i>
4:30 PM – 4:45 PM	I74	Investigating Equine-Related and Bovine-Related Human Fatalities in Oklahoma <i>Kaylan Peterson, MS*; Wayne D. Lord, PhD; Ross J. Miller, BA, MD; Mark R. McCoy, EdD; Timothy Dwyer, MSFS; Amber L. Fortney, MS; Sean Laverty</i>
4:45 PM – 5:00 PM	I75	The Perils of Body Size Assumption in Subadult Sibling Death Identifications <i>John B. Nase, DDS*</i>

PATHOLOGY/BIOLOGY

5:00 PM – 5:15 PM	I76	The Prevalence of Ethanol and Drugs Detected in Road Traffic Deaths: A Ten-Year Survey From Jefferson County, Alabama <i>Nicola Pigaiani, MD*</i> ; Brandi C. McCleskey, MD; Daniel S. Atherton, MD; Daniel W. Dye, MD; Giacomo Musile, PhD; Federica Bortolotti, MD, PhD; Gregory G. Davis, MD, MSPH; Karen S. Scott, PhD
5:15 PM – 5:30 PM	I77	The Graveyard Spiral and the Day the Music Died <i>Edmund R. Donoghue, MD*</i>

Thursday—Session III

Multidisciplinary Session: Pathology/Biology and Toxicology

1:00 PM – 1:15 PM	L52	2C or Not Tusi? The Emergence of a New Drug Combination in Miami <i>Rocio Potoukian, BS*</i> ; Diane Moore, PhD; Kenneth Hutchins, DM
1:15 PM – 1:30 PM	L53	The Frequency and Analysis of Kratom in Postmortem Cases <i>William M. Schroeder, II, MS*</i> ; Donna M. Papsun, MS; Justin Brower
1:30 PM – 1:45 PM	L54	Postmortem Diagnosis of Ketoacidosis: The Importance of Beta-Hydroxybutyrate Quantification as Part of Routine Toxicological Screening at Autopsy <i>Jeroen Roosendaal, MSFS*</i> ; Astrid Christiaens, MD; Kiki Van Langen, MD; Ingrid Bosman, PhD, MSFS
1:45 PM – 2:00 PM	L55	A Case Series of Suicides by Sodium Azide Ingestion: An Update <i>Ingrid Bosman, PhD, MSFS*</i> ; Roelof Oosting, MD; Dick-Paul Kloos, MD; Bart Ruiter; Jeroen Roosendaal, MSFS; Kristof Maudens, MHA, BS
2:00 PM – 2:15 PM	I78	I Didn't Want to Kill Him! The Role of Cocaine in Pseudoasphyxia by Compression of the Carotid Sinus <i>Eleonora Mezzetti, MD*</i> ; Matteo Leoni, MD; Andrea Costantino, MD; Carla Occhipinti, MD; Rebecca Pieretti, MD; Aniello Maiese, PhD
2:15 PM – 2:30 PM	I79	Not So Much the "Spice" of Life: Identifying a Source for a Series of MDMB-4en-PINACA Deaths <i>Michael Chaump, MD*</i> ; Robert Johnson, PhD; Aria McCall, BS; Kei Osawa, MFS; Steven J. Hemberger, DO; Mark E. Shelly; Richard Fries; Dana Hopson, MD
2:30 PM – 2:45 PM	I80	Elevated Beta-Hydroxybutyrate Within a Pediatric Population and Its Associated Pathology: A Retrospective Case Series <i>Nasim Haghandish, MDCM, PhD*</i> ; Chris Milroy, MD, LLB; Jacqueline Parai, MD; Anthea Lafreniere, MD
2:45 PM – 3:00 PM	I81	Pediatric Fatalities Due to Methadone Toxicity in Cook County, Illinois: Considerations on the Manner of Death <i>Lorenzo Gitto, MD*</i> ; Daniel S. Isenschmid, PhD; Ponni Arunkumar, MD

PATHOLOGY/BIOLOGY

Friday

Poster Session

11:30 AM – 1:00 PM	I82	Postmortem Interval Estimation Using MiRNAs: A Forensic Application <i>Paurabhi Singh, MSc*; Uma Shankar Singh, MD; Sangeeta Kumari, MD</i>
11:30 AM – 1:00 PM	I83	Recombinase Polymerase Amplification (RPA) for the Identification of Canine and Chicken Blood Samples <i>Julian L. Mendel*; Hanna Mellul; DeEtta Mills, PhD</i>
11:30 AM – 1:00 PM	I84	The Development of Real-Time and Digital PCR Kits for Simultaneous Quantification of Human and Bacterial DNA From Biological Evidence <i>Ji-Woo Lee*; Hye-Seon Cho; Ha-Eun Cha; A-Jeong Jeon; Si-Keun Lim</i>
11:30 AM – 1:00 PM	I85	A Retrospective Review of Genetic Testing and Its Impact on Cause of Death <i>Larissa Ybanez, BS, BA*; Stacey Murthy, MD</i>
11:30 AM – 1:00 PM	I86	The Impact of Mouthwash on Microbiome Associated With Human Saliva and Its Implication in a Bacterial Signature-Based Body Fluid Identification Method <i>Grace Cavanaugh, MS*; Baneshwar Singh, PhD*; James P. Brooks; Sarah Seashols Williams, PhD; Denise Wohlfahrt, PhD</i>
11:30 AM – 1:00 PM	I87	The Forensic Application of Monoclonal Anti-Human Glycophorin A (AntiGPA) Antibody in Samples From Decomposed Bodies to Establish Vitality of the Injuries: An Experimental Study <i>Benedetta Baldari, MD*; Elena Giacani, MD*; Giovanni Gurgoglione, MD; Jeannet Cappitelli, MD; Giovanni Pollice, MD; Francesca Carpano, MD; Paola Frati, MD*</i>
11:30 AM – 1:00 PM	I88	A Metagenomic Approach in Forensic Science for Human Identification Among a North Indian Population <i>Sangram Sandhu, MSc*; Niraj Rai, PhD; Pooran Chand, MDS</i>
11:30 AM – 1:00 PM	I89	Establishing an Extracorporeal Tissue Degradation Model to Investigate PMI Markers <i>Stefan Pittner, PhD*; Eileen Holzer, BS; Fabio Monticelli, PhD; Peter Steinbacher; Jane Harris, PhD</i>
11:30 AM – 1:00 PM	I90	When Immunohistochemistry Acquitted the Defendant: A Particular Scuba-Diving Death <i>Luca Sussetto, MD*; Elisa Olivetta, MD; Barbara Abenante, MD; Giancarlo Di Vella, MD, PhD*</i>
11:30 AM – 1:00 PM	I91	The Value and Versatility of Histology in the Forensic Autopsy: Changing Cases From Suspicious to Natural Causes <i>Joanne Hanna, BAS*; Yeliena Baber, FRCPath, FRCPA</i>
11:30 AM – 1:00 PM	I92	Evaluating the Spatial Relationship Between Microhemorrhages and Axonal Injury <i>Rhonda M. Mittenzwei, MD*; Heather Maioli, MD; Chiara Maffei, PhD; Karinn R. Sytsma, BA; Desiree Marshall, MD; Caitlin S. Latimer, MD, PhD; C. Dirk Keene, MD, PhD; Christine Mac Donald, PhD; Amber Nolan, MD, PhD; Brian Edlow, MD</i>
11:30 AM – 1:00 PM	I93	The Role of Thiols in Putrefaction: An Analysis of Biochemical Interactions in Forensic Cases <i>Isabella Aquila, PhD, MD*; Claudia Catia De Pasquale; Matteo Antonio A. Sacco, MD*; Maria Manno, MD; Saverio Gualtieri, MD; Lucia Tarda, MD; Luca Calanna, MD*; Maria Cristina Verrina, MD*; Wandamaria Mazzuca; Pietrantonio Ricci, PhD, MD</i>

PATHOLOGY/BIOLOGY

11:30 AM – 1:00 PM	I94	Iatrogenic Injuries Due to Endoscopic Techniques: The Role of Medicolegal Analysis for Forensic Purposes <i>Matteo Antonio A. Sacco, MD*; Maria Manno, MD; Angelica Zibetti, MD; Umberto Rosini, MD; Maria Cristina Verrina, MD*; Lucia Tarda, MD; Antonio Pallante, MD; Luca Calanna, MD; Pietrantonio Ricci, PhD, MD; Isabella Aquila, PhD, MD*</i>
11:30 AM – 1:00 PM	I95	Neonatal Traumatic Deaths: Differentiating Homicidal and Accidental Cases by a Multidisciplinary Approach <i>Aromatario Mariarosaria, MD PhD*; Benedetta Baldari, MD; Carpano Francesco, MD*; Moro Diego, MD*; Luigi Cipolloni, MD*; Fineschi Vittorio, MD, PhD*; Tartaglione Tommaso, MD*</i>
11:30 AM – 1:00 PM	I96	Post-Traumatic Intracranial Pseudo-Aneurysms of Posterior Circulation: Always a Challenge in the Forensic Field <i>Gabriele Napoletano, MD*; Fabio Del Duca, MD; Giacomo Visi, MD; Federica Spina, MD; Eleonora Mezzetti, MD; Alessandra De Matteis; Aniello Maiese, PhD*</i>
11:30 AM – 1:00 PM	I97	Analyzing the Past to Help Shape Our Children's Futures: A Ten-Year Review of Pediatric Deaths in Arapahoe County, Colorado <i>Emma Selner, DO*; Casey Bitting, DO*</i>
11:30 AM – 1:00 PM	I98	Scuba Diving, Extreme Sports, and Undetected Cardiac Pathologies. Is There a Need for Further Clinical Examinations to Make These Activities Safer for Health? <i>Eleonora Mezzetti, MD*; Federica Spina, MD*; Ilaria Marcacci, MD; Rebecca Pieretti, MD; Matteo Leoni, MD; Marco Di Paolo, MD</i>
11:30 AM – 1:00 PM	I99	Death by Frostbite: From Theory to Reality <i>Stefano Duma, MD*; Federica Mele, MD; Mariagrazia Calvano, MD; Mirko leonardelli, MD; Enrica Macorano, MD; Giovanni De Gabriele, MD; Alessandro Cristalli, MD; Francesco Introna</i>
11:30 AM – 1:00 PM	I100	Too Hot to Handle: A Review of Carbon Monoxide Levels in Fire Fatalities <i>Olivia Ostermann, BS*; Stacey Murthy, MD</i>
11:30 AM – 1:00 PM	I101	Smoke and Mirrors: A Bullet-less Intraoral Gunshot Wound <i>Nicole Burgin, BS*; Natasha Grandhi, MD; Sandra P. Reynolds, MD</i>
11:30 AM – 1:00 PM	I102	The Management of Deaths in Railway Stations: Investigation Methodologies and Safety Prospects for Public Health <i>Matteo Antonio A. Sacco, MD*; Vincenzo Maria Ritorto, MD; Fabrizio Cordasco, MD; Carmen Scalise, PhD, MD; Maria Cristina Verrina, MD*; Roberto Raffaele*; Luca Calanna, MD*; Pietrantonio Ricci, PhD, MD; Isabella Aquila, PhD, MD*</i>
11:30 AM – 1:00 PM	I103	The Analysis of Gunshot Wounds in Gun Tests on Biological Matrices: An Experimental Study on Pig Heads <i>Isabella Aquila, PhD, MD*; Massimo Musardo; Massimo Lupo; Roberto Raffaele*; Matteo Antonio A. Sacco, MD*; Luca Calanna, MD*; Maria Cristina Verrina, MD*; Saverio Gualtieri, MD; Lucia Tarda, MD; Antonio Pallante, MD; Wandamaria Mazzuca*; Mariachiara Militi</i>
11:30 AM – 1:00 PM	I104	Georgia: Home to the Carpet Capital of the World <i>Alexandra Medeiros, MD*; Stephanie Marino, BS; Rachel Geller, MD; Geoffrey Smith, MB, ChB</i>
11:30 AM – 1:00 PM	I105	Penile Torsion as a Method of Identification <i>Fernanda Da Silva Iameira, MD*; Nicole M. Masian, MD; Wendy M. Gunther, MD</i>

PATHOLOGY/BIOLOGY

11:30 AM – 1:00 PM	I106	The Role of the Forensic Laboratory in the Investigation of Postmortem Cardiac Markers for the Diagnosis of the Cause of Death: A Comparison of Forensic Utilities <i>Matteo Antonio A. Sacco, MD*</i> ; <i>Vincenzo Maria Ritorto, MD</i> ; <i>Melanie Rouse, DPA</i> ; <i>Jan Gorniak, DO</i> ; <i>Maria Cristina Verrina, MD*</i> ; <i>Luca Calanna, MD</i> ; <i>Margherita Sgroi, MD</i> ; <i>Serena Coda</i> ; <i>Wandamaria Mazzuca*</i> ; <i>Santo Gratteri, PhD, MD</i> ; <i>Isabella Aquila, PhD, MD*</i>
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Forensic Entomology

8:30 AM – 8:45 AM	I108	Necrophagous Insect Species Succession on Decomposed Pig Carcasses During North Dakota's Summer Months <i>Lavinia Iancu, PhD*</i> ; <i>Rebecca Simmons, PhD</i> ; <i>Tiberiu Sahlean, PhD</i> ; <i>Malia R. Wellens, BS</i> ; <i>Ranjana Mosby, BS</i>
8:45 AM – 9:00 AM	I109	The Effects of Common Insecticides on Blow Fly (Diptera: Calliphoridae) Oviposition in the Field <i>Teomie S. Rivera-Miranda, BSc, MSc*</i> ; <i>Krystal R. Hans, PhD</i>
9:00 AM – 9:15 AM	I110	It Boils Down to This: An Initial Evaluation, Using the Forensically Important Blow Fly <i>Cochliomyia Macellaria</i>, on the Usefulness of Gene Expression Following the Common Method of Boiling Larvae <i>Joshua Smith, PhD*</i>
9:15 AM – 9:30 AM	I111	Baits, Bodies, and Bugs: An Analysis of Forensic Entomology in Arizona <i>Lauren Weidner, PhD*</i> ; <i>Andrew Meeds</i>
9:30 AM – 9:45 AM	I112	Feline Forensics: Revealing the Unique Decomposition and Forensically Relevant Blow Flies (Diptera: Calliphoridae) Associated With Cats <i>Kelly Bagsby, MS, BS*</i> ; <i>Krystal R. Hans, PhD</i>
9:45 AM – 10:00 AM	I113	How Can Forensic Entomology Contribute to Solving Rhinoceros Poaching in South Africa? <i>Ian R. Dadour, MSc, PhD*</i> ; <i>Melanie Pienaar, BSc</i> ; <i>Christopher W. Weldon, PhD</i>
10:00 AM – 10:15 AM	I114	Winter Decomposition in North Dakota and Vertebrate Scavengers <i>Lavinia Iancu, PhD*</i> ; <i>Nicolette Ras, BS</i>
10:15 AM – 10:30 AM		BREAK

Forensic Entomology and Omics

10:30 AM – 10:45 AM	I115	Assessing the Impacts of Prescription Medications and Metabolites on Larval Blow Fly Development <i>Hayden S. McKee-Zech, MSc*</i> ; <i>Charity G. Owings, PhD</i> ; <i>Dawnie W. Steadman, PhD</i>
10:45 AM – 11:00 AM	I116	A Decade Into Developing a Microbiome Tool for Predicting the Postmortem Interval: Where Are We Now and Where Are We Going? <i>Jessica Lynne Metcalf, PhD*</i> ; <i>Zachary Burcham, PhD</i> ; <i>Rob Knight, PhD</i> ; <i>David O. Carter, PhD</i>
11:00 AM – 11:15 AM	I117	Understanding Seasonal Differences in Postmortem Microbiome Development for Forensic Practice <i>Anthony Grigsby*</i> ; <i>Kelly Waters</i> ; <i>M. Eric Benbow, BS, PhD</i> ; <i>Jennifer L. Pechal, PhD</i> ; <i>Bethany Mikles, BSc, MS</i>

PATHOLOGY/BIOLOGY

11:15 AM – 11:30 AM	I118	Microbiome Across the Pond: Decomposition in North Dakota Extreme Winter Temperatures Versus United Kingdom Summer Temperatures and Their Effect on the Microbiome for PMI Estimation <i>Noemi Procopio, PhD, MSc*; Lavinia Iancu, PhD*; Andrea Bonicelli, PhD, MA</i>
11:30 AM – 11:45 AM	I119	Developing a Multi-Omics Bone Biomolecular Signature by Integrating Metabolomics, Lipidomics, and Proteomics to Estimate Postmortem Interval <i>Andrea Bonicelli, PhD, MA*; Noemi Procopio, PhD, MSc</i>
11:45 AM – 12:00 PM	I120	A Metabolomics Investigation of Postmortem Human Pericardial Fluid <i>Alberto Chighine, MD*; Matteo Stocchero; Giulio Ferino, PhD; Fabio De-Giorgio, MD; Matteo Nioi, MD; Celeste Conte, MD; Ernesto d'Aloja, MD, PhD; Emanuela Locci, PhD</i>
12:00 PM – 1:00 PM		BREAK

Forensic Omics and Pathology/Biology Standards

1:00 PM – 1:15 PM	I121	Infant Postmortem Microbiome Biomarkers: An Initial Survey <i>Jennifer L. Pechal, PhD*; Bethany Mikles, BSc, MS; Heather Jordan, PhD; M. Eric Benbow, BS, PhD; Carl Schmidt, MD, MPH</i>
1:15 PM – 1:30 PM	I122	A Longitudinal Study for PMI Estimation Via GC/MS Metabolomics Applied to Porcine Muscle Tissue <i>Andrea Bonicelli, PhD, MA*; Halima Al-Balushi, BSc; Zoha Khan-Perveen, BSc; Alberto Chighine, MD; Irene van Zwieten, BSc; Peter Cross, MSc; Noemi Procopio, PhD, MSc</i>
1:30 PM – 1:45 PM	I123	The Mass Grave Project: The Impact of Freezing and Burial on Personal Identification Through Human DNA Analysis <i>Sarah Gino, MD*; Giulia Sguazzi, MA, BA; Moya McCarthy-Allen, BSc, MSc; Nicole Colombo; Daniel Wescott, PhD; Timothy P. Gocha, PhD; Noemi Procopio, PhD, MSc; Hayley L. Mickleburgh, PhD</i>
1:45 PM – 2:00 PM	I124	The Recovery of Corpses From Aquatic Environments: Procedural Standards to Maximize Evidence Recovery <i>Denise Gemmellaro, PhD*; Andrea Zaferes, BA*; Gloria Raise</i>
2:00 PM – 2:15 PM	I125	Developing an Introductory Forensic Biology Graduate Course: Preparing Future Forensic Biologists <i>Leah Nangeroni, BS*; Mirna Ghemrawi, PhD, MSFS; Lindsay Loughner Kotchey, MS; Justin Frye, MSFB</i>
2:15 PM – 2:30 PM	I126	Standards Development Activities in Medicolegal Death Investigation and Forensic Pathology <i>J. Keith Pinckard, MD, PhD*</i>
2:30 PM – 2:45 PM	I127	Systematized International Capacity Development for Forensic Pathology in Low-Resource Jurisdictions: A Proposed Model <i>Alfredo Eugene Braxton-Walker, FRCPath, MBBS*</i>
2:45 PM – 3:00 PM	I128	2023 State Legislative Encroachments Against Forensic Pathology Professionalism and Independence: Harbingers of Future Threats and Opportunity for Strategic Planning and Action <i>M.J. Menendez, JD*; Joyce L. deJong, DO</i>

PATHOLOGY/BIOLOGY

3:00 PM – 3:15 PM	I129	The 2022 NFLIS Medical Examiner and Coroner (MEC) Survey Findings <i>Kelly Keyes, BS*; DeMia P. Pressley, MS; Katherine Bollinger, MS; Hope M. Smiley-McDonald, PhD; Megan R. Waggy, MA, BA; Devon S. Cribb, MS</i>
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3:15 PM – 3:30 PM	BREAK
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Pathology/Biology Standards and Imaging

3:30 PM – 3:45 PM	I130	Preserving the Silent Witnesses: Ensuring Long-Term Maintenance of Insect Evidence in Forensic Investigations <i>Ian R. Dadour, MSc, PhD*; Paola A. Magni, PhD; Martin J.R. Hall, PhD</i>
3:45 PM – 4:00 PM	I131	The Toxic Workplace in Forensics <i>Paul S. Uribe, MD*</i>
4:00 PM – 4:15 PM	I132	But What Does It Mean? A Rationale for a Standardized Means of Death Classification System <i>Sarah Anderson, DO*; Katarina M. Volkoff; Brandi C. McCleskey, MD</i>
4:15 PM – 4:30 PM	I133	Plastic Bag Suffocation: A Case Series and an Effective Protocol Proposal <i>Anna Maria Manta, MD*; Benedetta Baldari, MD*; Stefania De Simone, MD*; Pia Eugenia Ylenia Petrasso, MD*; Gianluca Piras, MD*; Luigi Cipolloni, MD*; Valentina Milone, MD</i>
4:30 PM – 4:45 PM	I134	A Case of Ductus Venosus Agenesis (DVA) in a Stillborn Baby: The Postmortem Computed Tomography (CT) Scan and Autopsy Findings <i>Martina Demasi, MD*; Chiara Franzetti, MD; Luisa Andrello, MD, PhD; Matteo Moretti, MD; Rosa Maria Martinez</i>
4:45 PM – 5:00 PM	I135	Minimally Invasive Postmortem Autopsies Using CT-Guided Biopsies in Suspected Cases of Pneumonia: A Feasibility Study <i>Yonatan Carl, MD*; Jamie Elifritz, MD; Micheal Harrell, MD; Kethery Haber, MHA, BS; Sarah Lathrop, DVM, PhD; Lauren Dvorscak, MD</i>
5:00 PM – 5:15 PM	I136	An Analysis of Autopsy-Radiology Discordance in Cases of Fatal Blunt Force Injury <i>Natalie L. Adolphi, PhD*; Yi-Li Grace Wong, MD; Jamie Elifritz, MD</i>