

PATHOLOGY/BIOLOGY

Wednesday

Poster Session

- 11:30 am – 1:00 pm **I1** **A Decomposition Scoring System for Indoor Death Scenes**
*David Carter, PhD**; *Audrey Pilar, BS*; *Marlon Francisco, BS*; *Bratt Katherine, BS*;
Carter Charlotte, MS; *Alexis Peterson, BA*
- 11:30 am – 1:00 pm **I2** **Temperature Variation in Marquette, Michigan, in Relation to Protein Degradation Patterns for Postmortem Interval Determination**
*Julia Emery, BS**; *Josh Sharp, PhD*; *Jane Harris, PhD*; *Evan Pratt, PhD*
- 11:30 am – 1:00 pm **I3** **An Analysis of the Sequencing Quality of Next-Generation Sequencing for the Entire Mitochondrial Genome in Decomposed Human Samples**
*Moon-Young Kim, MD, PhD**; *Seung Eun Lee, MS*; *Ga Eun Kim, MS*; *Dong Yeon Lee, BS*;
Hajin Kim, PhD
- 11:30 am – 1:00 pm **I4** **The Effect of Decomposition on Recovery of DNA Evidence and Its Subsequent Impact on Identification**
*Kathryn Melançon**; *Katelyn Bolhofner, PhD*; *Jonathan Parrott, PhD*
(FSF Emerging Forensic Scientist Award Poster Presentation)
- 11:30 am – 1:00 pm **I5** **Immersion Deaths in Seoul, a City With a River: The Implication of Decomposition in the Diagnosis of Drowning**
*Dong Yeon Lee, BS**; *Hajin Kim, PhD*; *Soong Deok Lee, MD, PhD*; *Moon-Young Kim, MD, PhD*
- 11:30 am – 1:00 pm **I6** **Animal Predation Versus Scavenging in Medicolegal Death Investigations**
Erika Poole; *Hannah Jarvis, MRCS**
- 11:30 am – 1:00 pm **I7** **The Changes in Cuticular Hydrocarbon Profiles of a Single Blow Fly Species as a Function of Developmental Stage and Preservation Method**
*Alexander Jutila, BS**; *William Shirley, BS*; *Ruth Waddell Smith, PhD*
- 11:30 am – 1:00 pm **I8** **Disguising Decomposition: Attempted Concealment and the Insects Associated With Remains in Criminal Investigations**
*Krystal Hans, PhD**
- 11:30 am – 1:00 pm **I9** **A Developmental and Genomic Study to Strengthen Forensic Entomology Baseline Data**
*Jonathan Parrott, PhD**; *Alexandier Brossia, BS*; *Gracie Thompson, BS*
- 11:30 am – 1:00 pm **I10** **WITHDRAWN**
- 11:30 am – 1:00 pm **I11** **Bulletproof Heart: Defying the Odds With an Embedded Remote Projectile**
*Nahimarys Colón Hernández, MD**; *Tatyana Zinger, DO*; *Kristinza Giese, MD*
- 11:30 am – 1:00 pm **I12** **Severe Acute Myocardial Injury Associated With Heat-Related Illness**
*Biliana Mileva, MD**; *Metodi Goshev, MD, PhD*; *Tihomir Dikov, MD*;
Milena Velizarova, MD, PhD; *Vesela Ivanova, MD, PhD*
- 11:30 am – 1:00 pm **I13** **Unlocking the Mystery Behind Sudden Cardiac Death: A Case Series**
*Grazia Giulia Pantè, MD**; *Martina Francaviglia, MD**; *Maria Paola Pinacchi, MD**;
Federica Ministeri, MD

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- 11:30 am – 1:00 pm **I14** **An Assessment of Myocardial Ischemia Using Coronary Postmortem Computed Tomography Angiography Based on the Voronoi Algorithm: A Case Report**
*Haruki Fukuda, MD, PhD**; *Hiroyuki Tokue, MD, PhD*; *Akira Hayakawa, MD, PhD*;
Yoshihiko Kominato, MD, PhD; *Rie Sano, PhD*
- 11:30 am – 1:00 pm **I15** **Broken Heart Syndrome: Can an Argument Kill?**
*Martina Francaviglia, MD**; *Grazia Giulia Pantè, MD**; *Maria Paola Pinacchi, MD**;
Fabrizio Vanaria, MD
- 11:30 am – 1:00 pm **I16** **The Impact of a Cardiac Surgery Scar on Heart Rupture Following a Fall From Height: A Case Report**
*Biancamaria Treves, MD**; *Alessandro Ghamlouch, MD*; *Fabio Del Duca, MD*;
Gabriele Napoletano, MD
- 11:30 am – 1:00 pm **I17** **The Medicolegal Implications of Atrial Fibrillation Ablation Complications and Their Management**
*Gabriele Napoletano, MD**; *Alessandro Ghamlouch, MD*; *Biancamaria Treves, MD*;
Fabio Del Duca, MD
- 11:30 am – 1:00 pm **I18** **A Case of Suicide by Sodium Nitrite and Dimethyl Sulfoxide Ingestion**
*Yoo Min Ahn, DO**; *Grant Herndon, DO*
- 11:30 am – 1:00 pm **I19** **Fatal Occupational Exposure to Hydrogen Sulfide: A Case Report Emphasizing the Need for Differential Diagnosis**
Romina Malerba, MD; *Alejandro Partida Contreras, MD**; *Adam Gonzalez, MD*;
Mario Rascon, MD
- 11:30 am – 1:00 pm **I20** **Synthetic Cannabinoids and Sudden Death**
*Edward Quan, BA**; *Tatiana Bihun, MD*; *Joseph Prahlow, MD*; *Nina Sadigh, MD*;
Timothy Wysozan, MD; *Prentiss Jones, PhD*; *David Halperin, MD*; *Sarah Riley, PhD*
- 11:30 am – 1:00 pm **I21** **Heat Shock Proteins (HSPs) Expression in Cocaine-Related Deaths: A Systematic Review**
*Francesco Carpano, MD**; *Diego Moro, MD*; *Giovanni Gurgoglione, MD*;
Isabella Di Marzo Polzi, MD; *Elena Giacani, MD*; *Roberta Bibbò, MD*
- 11:30 am – 1:00 pm **I22** **Accidental Vehicular Carbon Monoxide Fatalities: A Ten-Year Review**
*Bethany Bless, MS**; *Nichole Miller, BS*; *Hannah Jarvis, MRCS*

Thursday

Poster Session

- 11:30 am – 1:00 pm **I23** **A Survival Analysis Based on a Forensic Investigation of Motorcycle Road Traffic Accidents in the Athens Metropolitan Area During 2021–2023**
*Emmanouil Sakelliadis, PhD**; *Dimitrios Kouzos, MD*; *Konstantinos Katsos, PhD*;
Ioannis Papoutsis, PhD; *Artemisia Ntona, PhD*; *Nikolaos Georgiadis, MS*;
Theodoros Sergeantanis, PhD; *Chara Spilopoulou, MD, PhD*
- 11:30 am – 1:00 pm **I24** **The Forensic Utility of Botany in Railway Accident Cases**
*Maria Cristina Verrina, MD**; *Matteo Antonio Sacco, MD**; *Saverio Gualtieri, MD**;
Fabrizio Cordasco, MD, PhD; *Raffaele Gangale, MD*; *Wandamaria Mazzuca*;
*Isabella Aquila, MD, PhD**

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- 11:30 am – 1:00 pm **I25** **A Differential Diagnosis Between Acute Mechanical Asphyxia and Fatal Arrhythmia During Law Enforcement Restraint**
*Andrea Costantino, MD**; *Marta Guerini, MD**; *Beatrice Defraia, MD*; *Silvio Chericoni, PhD*; *Martina Focardi, MD*
- 11:30 am – 1:00 pm **I26** **Five Types of Hepatic Lacerations: Can You See the Difference?**
*Angela Colucci, MD**; *Enrica Macorano, MD*; *Giovanni De Gabriele, MD*; *Alessandro Cristalli, MD*; *Sara Di Trani, MD*; *Antonio Marzaioli, MD*; *Gerardo Cazzato, MD, PhD*; *Francesco Introna, MD, PhD*
- 11:30 am – 1:00 pm **I27** **“Terminal Burrowing” and Paradoxical Undressing: A Case Series Representing Lethal Hypothermia**
*Biliana Mileva, MD**; *Alexander Alexandrov, MD, PhD*; *Mihaela Georgieva, MD*; *Tihomir Dikov, MD*; *Martina Valcheva, MD*; *Metodi Goshev, MD, PhD*; *Vesela Ivanova, MD, PhD*
- 11:30 am – 1:00 pm **I28** **An 18-Year Review of Decedents Recovered From the Mississippi River and Associated Tributaries at the West Tennessee Regional Forensic Center**
*Annie Addison, BA**; *Danielle Harrell, DO*
- 11:30 am – 1:00 pm **I29** **Overkill: A Case Series Analysis by Detailed Body Examination, Crime Scene Investigations, and Criminological Characterization**
*Chiara Fabrello, MD**; *Diego Moro, MD*; *Maria Antonella Bosco, MD*; *Giovanni Pollice, MD*; *Claudia Angela Damato, MD*; *Raffaella Campagna, MD*
- 11:30 am – 1:00 pm **I30** **Understanding the Phenomenon of Overkill: An Analysis of Eight Cases From Southern Italy**
*Ilaria Fracassi, MD**; *Alessandro Feola, MD, PhD*; *Federica Cascone, MD*; *Mariavictoria De Simone, MD*; *Paolo Palermo, MD*; *Filomena Casella, MD*; *Pasquale Giugliano, MD*; *Anna Carfora, PhD*; *Carlo Pietro Campobasso, MD, PhD*
- 11:30 am – 1:00 pm **I31** **Sudden Deaths in Athletes: The Role of Autopsy in a Literature Review**
*Jasmine Calafiore, MD**; *Matteo Antonio Sacco, MD**; *Fabrizio Cordasco, MD, PhD**; *Saverio Gualtieri, MD*; *Raffaele Gangale, MD*; *Pietrantonio Ricci, MD, PhD*; *Isabella Aquila, MD, PhD**
- 11:30 am – 1:00 pm **I32** **Fatalities Caused by Elapids and Viperids: A Critical Analysis of Cases Coming to a Tertiary Care Center**
*Nilesh Tumram, MD**
- 11:30 am – 1:00 pm **I33** **Suicide Analysis in India: Causes, Trends, and Forensic Implications**
Ashish Saraf, MD; *Navneet Ateriya, MD**
- 11:30 am – 1:00 pm **I34** **An Autopsy of a Patient With Schizophrenia and Compulsive Eating: A Case Report Highlighting Choking Risks in Psychiatric Patients**
*Bethany Faust, MD**; *Harry Sanchez, MD*; *Na Niu, MD, PhD*
- 11:30 am – 1:00 pm **I35** **A Forensic Analysis of a Carbonization in a Complex Case of Dubious Suicide**
*Matteo Antonio Sacco, MD**; *Saverio Gualtieri, MD**; *Fabrizio Cordasco, MD, PhD*; *Lucia Tarda, MD*; *Santo Gratteri, MD*; *Isabella Aquila, MD, PhD**
- 11:30 am – 1:00 pm **I36** **May–Thurner Syndrome: A Case Report of an Undiagnosed Left Iliac Vein Thrombosis**
*Alessandro Ghamlouch, MD**; *Fabio Del Duca, MD*; *Gabriele Napoletano, MD*; *Biancamaria Treves, MD*
- 11:30 am – 1:00 pm **I37** **The Eyewear Suicide: A Rare Case of Suicide Caused by the Inhalation of Homemade Hydrogen Sulfide**
*Annachiara Vinci, MD**; *Paolo Visci, MD*; *Maurizio Mastrapasqua, MD*; *Vito Maria Goffredo, MD*; *Davide Ferorelli, MD*; *Alessandro Dell’Erba, MD, PhD*

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- 11:30 am – 1:00 pm **I38** **The Strange Case of Cable Ties: Suicide or Murder?**
*Sara Di Trani, MD**; *Enrica Macorano, MD*; *Giovanni De Gabriele, MD*; *Alessandro Cristalli, MD*;
Antonio Marzaioli, MD; *Angela Colucci, MD*; *Matilde Talamo, MD*; *Francesco Introna, MD, PhD*
- 11:30 am – 1:00 pm **I39** **Death by Self-Inflicted Captive Bolt Device**
*Breanna Cuchara-Blagmon, MS**; *Francisco Diaz, MD*; *Lakshmanan Sathyavagiswaran, MD*
- 11:30 am – 1:00 pm **I40** **Suicide by Knitting Needle—An Ambiguous Method of Self-Inflicting Fatal Heart Injuries: A Case Report**
*Filippo Bolzan, MD**; *Michela Peruch, MD*; *Maria Buffon, MD*; *Riccardo Addobbati, MD, PhD*;
Pier-Riccardo Bergamini, MD; *Davide Radaelli, MD, PhD*

Thursday – Session I

Omics Approaches in Forensic Taphonomy

Moderator: Noemi Procopio, PhD

Co-Moderator: Lavinia Iancu, PhD

- 8:00 am – 8:30 am **I41** **A Decade of “Omics” in Forensic Science From Lab to Court: Where Are We Standing, Where Are We Going?**
*Noemi Procopio, PhD**
- 8:30 am – 8:50 am **I42** **The Impact of Heroin on Thanatobiome and the Postmortem Interval**
*Christina Harris**; *Gulnaz Javan, PhD**; *Sarah Shado, MScFS*; *Silvia Visonà, PhD*
- 8:50 am – 9:10 am **I43** **Investigating Flunitrazepam’s Influence on Calliphora Vicina (Diptera: Calliphoridae) Growth and Its Impact on Microbiome Diversity**
*Lavinia Iancu, PhD**; *Noemi Procopio, PhD*; *Andrea Bonicelli, PhD*; *Ranjana Mosby, BS*
- 9:10 am – 9:30 am **I44** **Microbial Succession of Necrophagous Beetles and Soil During Small Carcass Decomposition: Potential Uses in Understanding Body Translocation Scenarios**
*Kelly Waters, BS**; *Anthony Grigsby, MS*; *Bethany Mikles, MS*; *Jennifer Pechal, PhD*;
Mark Benbow, PhD
- 9:30 am – 9:50 am **I45** **Differential Biochemical Decomposition in Single and Mass Grave Deposition**
*Andrea Bonicelli, PhD**; *Nengi Ogbanga, PhD*; *Danny Wescott, PhD*; *Timothy Gocha, PhD*;
Hayley Mickleburgh, PhD; *Noemi Procopio, PhD*
- 9:50 am – 10:10 am **I46** **A Metabolomic Regression Model for PMI Estimation on Human Pericardial Fluid**
*Alberto Chighine, MD**; *Matteo Stocchero, PhD*; *Giulio Ferino, PhD*; *Fabio De-Giorgio, MD, PhD*;
Matteo Nioi, MD; *Ernesto d’Aloja, MD, PhD*; *Emanuela Locci, PhD*
- 10:10 am – 10:30 am **I47** **Estimation of the Postmortem Interval in Human Vitreous Humor by Infrared Spectroscopy**
*Eva Montanari, PhD**; *Angelo Montana, MD, PhD**; *Francesco Paolo Busardò*
- 10:30 am – 11:00 am **I48** **Why “Novel PMI Estimation Methods” Are Rarely Applied in Forensic Routine: An Example on a Decade of Research on Postmortem Protein Degradation**
*Stefan Pittner, PhD**; *Peter Steinbacher, PhD*; *Fabio Monticelli, PhD*
- 11:00 am – 11:30 am **Discussion and Q&A**
- 11:30 am – 1:00 pm **BREAK**

PATHOLOGY/BIOLOGY

Entomology and Ecology

Moderator: David Carter, PhD

Co-Moderator: Andrea Bonicelli, PhD

- 1:00 pm – 1:20 pm **I49** **Closing the Divide: Evaluating the Discrepancy in Forensic Entomology Research and Casework Needs**
*Lauren Weidner, PhD**
- 1:20 pm – 1:40 pm **I50** **Who Let the Dogs Out? A Comparison of Antemortem and Postmortem Canine Activity**
Alyssa Byrd, MD; Meredith Frank, MD; James Caruso, MD; Ian Puffenberger, MD; Sterling McLaren, MD*
- 1:40 pm – 2:00 pm **I51** **Impacts of Vertebrate Scavenging on Blow Fly Oviposition on Human Remains**
Hayden McKee-Zech, PhD; Erin Patrick, MS; Charity Grace Owings, PhD; Dawnie Steadman, PhD*
- 2:00 pm – 2:20 pm **I52** **Morphometric Analysis of Posterior Spiracles for Species Identification of Necrophagous Third Instar Larvae**
Tae Mo Kang, PhD; Zi Yan Liu, BA; Kwang Soo Ko, MA; Seong Hwan Park, MD, PhD*
- 2:20 pm – 2:40 pm **I53** ***Lucilia Mexicana* and Its Population Structure in Texas**
Cesar Cantu, BS; Rachel Houston, PhD; Christopher Randle, PhD; Sibyl Bucheli, PhD (FSF Emerging Forensic Scientist Award Oral Presentation)*
- 2:40 pm – 3:00 pm **I54** **Visualizing and Clustering the Species in the Mixture of Pollen Flow Cytometry**
Slun Booppasiri, MS; Matthieu Baudelet, PhD; Jack Trimble, BS; Larry Tang, PhD*
- 3:00 pm – 3:20 pm **I55** **A Comparison of Drying Characteristics of Insect Stains and Human Bloodstains**
David Rivers, MD, PhD; Tyler Vega, BA*
- 3:20 pm – 3:40 pm **Discussion and Q&A**

New Technologies and Imaging to Improve Forensic Investigations

Moderator: Lorenzo Gitto, MD

Co-Moderator: Simone Grassi, MD

- 3:40 pm – 4:00 pm **I56** **Optimizing Efficiency: Evaluating the Role of Limited Examination in Non-Suspicious Deaths Outside the Residence**
Riley Lochner, MD; Si Gao, MS; Pramod Gumpeni, MD*
- 4:00 pm – 4:20 pm **I57** **An Application of 3D Virtual Animation in Complicated Suicide Scenarios: A Multidisciplinary Approach to Forensic Investigations**
Monica Concato, MD; Massimiliano Gori, BS; Luca De Rosa, BS; Simone Danesin, BS; Francesco Camana, PhD; Stefano D'Errico, PhD*
- 4:20 pm – 4:50 pm **I58** **Enhancing Medicolegal Death Investigations: The Successful Adoption of Postmortem Computer Tomography (PMCT) Technology at the Institute of Forensic Sciences in Puerto Rico**
Paola Luna, MD; Meisshialette Ortiz, MS*; Maria Conte, MD; Irma Rivera, MD*
- 4:50 pm – 5:10 pm **I59** **WITHDRAWN**

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Thursday – Session II

Case Studies and Reviews—Part 1

Moderator: Nicole Croom, MD, MPH

Co-Moderator: Simone Grassi, MD

8:30 am – 8:50 am	I60	Bayou Blues: Unraveling Mysteries of the Murky Depths of the Houston Bayou System <i>Daniel Taylor, MD*</i> ; <i>Si Gao, MS</i> ; <i>Ana Lopez, MD</i>
8:50 am – 9:10 am	I61	Non-Traumatic Companion Cases: A Ten-Year Review and Examination of Investigative and Autopsy Findings <i>Hannah Jarvis, MRCS*</i> ; <i>Nichole Miller, BS</i> ; <i>Bethany Bless, MS</i>
9:10 am – 9:30 am	I62	A Meeting With Death: How Medical Examiner/Coroner Offices Can Help Support the Surveillance of Respiratory Illnesses <i>Savannah Hardin, MPH*</i> ; <i>Christopher Gullede, MD</i> ; <i>Rachel Franklin, MPH</i>
9:30 am – 9:50 am	I63	When Lightning Strikes! A 22-Year Review of Fatalities in Houston, Texas, and New York City <i>Hannah Jarvis, MRCS*</i> ; <i>Gregory Dickinson, MD</i>
9:50 am – 10:10 am	I64	Foreign Matter and Surgery: A Forensic Approach to Identification and Source Determination <i>Christopher Palenik, PhD*</i>
10:10 am – 10:30 am	I65	Did George Floyd Die of Cardioinhibition From Pressure on His Neck? <i>Victor Weedn, MD, JD*</i> ; <i>Pete Speth, MD</i> ; <i>Alon Steinberg, MD</i>
10:30 am – 11:00 am		Discussion and Q&A
11:00 am – 1:00 pm		BREAK

Multidisciplinary Session: Pathology/Biology and Toxicology

Moderator: Gregory Schmunk, MD

Co-Moderator: Rebecca Hartman, PhD

1:00 pm – 1:15 pm	L47	Two Fatalities Involving Hydroxychloroquine <i>Teresa Gray, PhD*</i> ; <i>Jennifer Ross, MD</i> ; <i>Marianne Beynon, MD</i>
1:15 pm – 1:30 pm	L48	An Unexpected Fatal Methadone Ingestion in a Child <i>Jordan Taylor, MD*</i>
1:30 pm – 1:45 pm	L49	A Toxicological and Pathological Re-Evaluation of Media-Reported Mitragynine (Kratom) Deaths in Florida <i>Marilyn Huestis, PhD*</i> ; <i>Karl Williams, MD</i>
1:45 pm – 2:00 pm	L50	Endogenous Carbon Monoxide Due to Hemolytic Anemia: A Forensic Red Herring <i>Orianna Thomas, MSFS*</i> ; <i>Sandra Bishop-Freeman, PhD</i>
2:00 pm – 2:15 pm	I66	Drug-Related Deaths in the Elderly: A Five-Year Overview of Western Michigan <i>Abigail Grande, MPH*</i> ; <i>Gemma Harkin, MPH</i> ; <i>Bo Collins, MPH</i> ; <i>Amanda Fisher-Hubbard, MD</i>
2:15 pm – 2:30 pm	I67	Fatal Intoxications vs. Congenital Cardiac Disorders in Sudden Death: Where to Draw the Line? <i>Simone Grassi, MD*</i> ; <i>Alexandra Dimitrova, RF</i> ; <i>Fabio Vaiano, PhD</i> ; <i>Vincenzo Arena, MD</i> ; <i>Oscar Campuzano, MD</i> ; <i>Sabina Strano Rossi, PhD</i> ; <i>Ramon Brugada, MD</i> ; <i>Antonio Oliva, MD, PhD</i>

PATHOLOGY/BIOLOGY

- 2:30 pm – 2:45 pm **168** **Illicit Drug Deaths in Decedents Over 60 Years of Age in the City and County of San Francisco From 2020 to 2024**
*Ellen Moffatt, MD**; *Luke Rodda, PhD*; *Anson Tsang, MS*
- 2:45 pm – 3:00 pm **169** **Sodium Azide/Nitrite Suicides in the Netherlands Between 2015 and 2022**
*Karen van den Hondel, PhD**; *Dominique van Pelt, MS*; *Lizanne Schweren, PhD*;
Manon Ceelen, PhD
- 3:00 pm – 3:15 pm **170** **Fatal Drug Intoxication in the Pediatric Population of El Paso, Texas**
Romina Malerba, MD; *Alejandro Partida Contreras, MD**; *Adam Gonzalez, MD*;
Mario Rascon, MD

Friday

Poster Session

- 11:30 am – 1:00 pm **171** **A Multicentric Study on Forensic Investigation of Bodies Exposed to Fire: The Importance of an Interdisciplinary Approach**
*Enrica Callegari, MD**; *Gennaro Baldino, MD*; *Guido Viel, MD, PhD*;
Giovanni Cecchetto, MD, PhD; *Margherita Neri, MD, PhD*; *Antonio Oliva, MD, PhD*;
Elvira Ventura Spagnolo, MD
- 11:30 am – 1:00 pm **172** **Fire and Blood: Homicide With Combined Sharp Force Injury and Carbonization**
*Benedetta Baldari, MD, PhD**; *Gianluca Piras, MD*; *Anna Maria Manta, MD*;
Valentina Milone, MD; *Roberta Bibbò, MD*; *Luigi Cipolloni, MD, PhD*
- 11:30 am – 1:00 pm **173** **Models of Autopsy Techniques Compared in the Era of Minimally Invasive Techniques**
*Saverio Gualtieri, MD**; *Maria Chiara Militi**; *Matteo Antonio Sacco, MD**;
Fabrizio Cordasco, MD, PhD; *Pietro Tarzia, MD*; *Raffaele Gangale, MD*;
Pietrantonio Ricci, MD, PhD; *Isabella Aquila, MD, PhD**
- 11:30 am – 1:00 pm **174** **The Role of Forensic Anthropology and Radiography in Supporting Identifications in a Medical Examiner's Office**
*Amy Joy Spies, PhD**; *Kaitlyn Fulp, MA*; *Katelyn Bolhofner, PhD*; *Christen Eggers, MS*;
Laura Fulginiti, PhD, PhD
- 11:30 am – 1:00 pm **175** **The Suicide: An Experimental Study of the Expression of the Neurotrophic Factors BDNF and GDNF in the Brain of Subjects Who Died by a Suicidal Act**
*Stefania De Simone, MD, PhD**; *Luigi Cipolloni, MD, PhD**; *Maria Antonella Bosco, MD*;
Margherita Neri, MD, PhD; *Santina Cantatore*; *Francesca Consalvo, MD, PhD*
- 11:30 am – 1:00 pm **176** **A Postmortem Diagnosis of Bloodborne Infectious Diseases Using Point-of-Care Test Kits**
*Ga Eun Kim, MS**; *Dong Yeon Lee, BS*; *Eun-Byoul Jung, BS*; *oon-Young Kim, MD, PhD*
- 11:30 am – 1:00 pm **177** **It's a ME...MA! When Genetics Is the Actual Cause of Death**
*Damiano Marchesini, MD**; *Marida Imbriani, MD*; *Gianluca Piras, MD*;
Benedetta Baldari, MD, PhD
- 11:30 am – 1:00 pm **178** **The Application of Intracerebral Aquaporin-4 (AQP4) Expression in Differential Diagnosis of Drowning: An Immunohistochemical Study Related to the Timing of the Autopsy**
*Elena Giacani, MD**; *Francesco Carpano, MD*; *Jeannet Cappitelli, MD*; *Anna Santamaria, MD*;
Fiorenzo D'Abate, MD; *Stefania De Simone, MD, PhD*

PATHOLOGY/BIOLOGY

- 11:30 am – 1:00 pm **I79** **The Essential Role of Genetic Analysis in Sudden Cardiac Death: Advancing Molecular Autopsies and the Potential for Preventive Screening**
*Gabriella Maisetta, MD**; *Chiara Ariani, MD*; *Julia Lazzari, MD*; *Ilaria Marcacci, MD*; *Rebecca Pieretti, MD*; *Martina Modena, PhD*; *Andrea Scatena, MD*; *Marco Di Paolo, MD*
- 11:30 am – 1:00 pm **I80** **Extra-Articular Gout Deposits Can Be Clinically Significant and Contribute to Death**
*Ellen Moffatt, MD**; *Stephany Fiore, MD*
- 11:30 am – 1:00 pm **I81** **Digital Pathology in Education: Shaping Career Choices and Recruitment Strategies in Forensic Pathology**
*Nahimarys Colón Hernández, MD**
- 11:30 am – 1:00 pm **I82** **A Fatal Citrobacter-Induced Meningitis Complicated With Pneumocephalus in an Infant: A Case Report**
*Stefano Di Maria, MD**; *Raffaella Vetrini, MD*; *Tommaso Livieri, MD*; *Michela Peruch, MD*; *Calogero Cuttaia, MD*; *Matteo Bolcato, MD*
- 11:30 am – 1:00 pm **I83** **Death After Spontaneous Splenic Rupture in a Newborn Child With Severe Hemophilia A Caused by De Novo Mutation: A Case Report With Literature Review**
*Andrea Cisternino, MD**; *Silvia Visonà, PhD*; *Gulnaz Javan, PhD*; *Nicolas Martinelli, MD*; *Yao Chen, MD*
- 11:30 am – 1:00 pm **I84** **Fatal Neonatal Herpes Simplex Virus Infection**
*George Kostanian, MD**; *Julie Schrader, DO*
- 11:30 am – 1:00 pm **I85** **Sudden Pediatric Death: The Lethal Intersection of Influenza and Hypoplastic Coronary Artery Disease**
*Ruben Alberto Hiraldo, MD**; *Tatyana Zinger, DO*; *Renu Virmani, MD*
- 11:30 am – 1:00 pm **I86** **The Occasional and Rare Finding of Choroid Plexus Papilloma in the Cerebellopontine Angle in an Infant: A Case Report**
*Vito Maria Goffredo, MD**; *Maurizio Mastrapasqua, MD*; *Michele Telegrafo, MD*; *Francesco Calò, MD*; *Paolo Visci, MD*; *Alessandro Dell'Erba, MD, PhD*; *Davide Ferorelli, MD*
- 11:30 am – 1:00 pm **I87** **Undiagnosed T-Lymphoblastic Lymphoma Mimicking Asthma and Leading to Sudden Death in a Pediatric Patient**
*Jonathan Buehne, BS**; *Joseph Prahlow, MD*
- 11:30 am – 1:00 pm **I88** **A Comparison of Histomorphological Changes of Atherosclerosis and Lipid Profile in Non-Cardiac Deaths Among Children and Young Adults at Autopsy**
*Yogender Bansal, MD**; *Pulkit Girdhar, MD*; *Uma Saikia, MD*
- 11:30 am – 1:00 pm **I89** **A Multivessel Sudden Coronary Artery Dissection During the Peripartum Period**
*Amber Melchers, MHS**; *Wendy Gunther, MD*

PATHOLOGY/BIOLOGY

Friday – Session I

Pregnancy-Related and Pediatric Deaths

Moderator: Michael Harrell, MD

Co-Moderator: Jolee Suddock, DO

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| 8:00 am – 8:20 am | 190 | Pregnancy-Associated Manners of Death in Western Michigan, 2016–2024
<i>Nicolas Kosteletzky, MD*</i> ; <i>Hunter Berger, BS</i> ; <i>Anna Tart, MD</i> ; <i>Abigail Grande, MPH</i> ;
<i>Amanda Fisher-Hubbard, MD</i> |
| 8:20 am – 8:40 am | 191 | An Approach to Placental Examination and Placental Pathology for the Forensic Pathologist
<i>Michael Harrell, MD*</i> ; <i>Jolee Suddock, DO</i> ; <i>Lorraina Robinson, DO</i> ; <i>Paul Zamiara, MD</i> |
| 8:40 am – 9:10 am | 192 | Examining the Lung Float Test: Ending the Use of a Broken Tool for Pregnancy Criminalization and Wrongful Convictions
<i>Dara Gell, JD*</i> |
| 9:10 am – 9:40 am | 193 | Genetic Insights Into Pediatric Sudden Cardiac Death: A Case Report of Anomalous Left Coronary Artery Originating From the Right Sinus of Valsalva
<i>Alejandro Partida Contreras, MD*</i> ; <i>Romina Malerba, MD</i> ; <i>Mario Rascon, MD</i> |
| 9:40 am – 10:00 am | 194 | Retinal Fold Apical Attachment of the Internal Limiting Membrane Is Not Specific for Vitreoretinal Traction During Alleged Cycles of Ocular Acceleration-Deceleration Based on Lange’s Folds Histology
<i>Ashley Smith, MD*</i> ; <i>Tammy Sexton, BA</i> ; <i>William Harrison, MD</i> ; <i>Anna McDonald, MD</i> ;
<i>Patrick Lantz, MD</i> |
| 10:00 am – 10:20 am | 195 | Frequency and Distribution Patterns of Rib Fractures in Deceased Neonates, Infants, and Young Children
<i>Olivia Millington, MS*</i> ; <i>Emma Cheshire, PhD</i> ; <i>Roger Malcomson, PhD</i> |
| 10:20 am – 10:40 am | 196 | Pediatric Autopsies in Luxembourg: A Retrospective Analysis of a Five-Year Period (2018–2022)
<i>Thorsten Schwark, MD*</i> ; <i>Martine Schaul, MD</i> |
| 10:40 am – 11:00 am | 197 | Suicides in Children and Young Teens: A Nine-Year Retrospective Review From the Cook County Medical Examiner’s Office
<i>Ilaria Tarozzi, MD*</i> ; <i>Lorenzo Gitto, MD</i> |
| 11:00 am – 11:30 am | | Discussion and Q&A |
| 11:30 am – 1:00 pm | | BREAK |

Case Studies and Reviews—Part 2

Moderator: Denise Gemmellaro, PhD

Co-Moderator: Sterling McLaren, MD

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|-------------------|------------|---|
| 1:00 pm – 1:20 pm | 198 | WITHDRAWN |
| 1:20 pm – 1:40 pm | 199 | A Nearly Missed Homicide: Pre-Cremation and Delayed Detection of Gunshot Wounds in a Mistaken Love Triangle
<i>Wendy Gunther, MD*</i> |

PATHOLOGY/BIOLOGY

1:40 pm – 2:10 pm	I100	An Update on Forensic and Medicolegal Aircraft Accident Investigation: New Challenges Meet Novel Technologies <i>Michael Schwerer, MD*</i>
2:10 pm – 2:30 pm	I101	Familial Dyadic Deaths: A Sample Study From Southern Italy <i>Alessandro Feola, MD, PhD; Edoardo Mazzini, MD; Federica Cascone, MD; Mariavictoria De Simone, MD; Ilaria Fracassi, MD; Paolo Palermo, MD*; Filomena Casella, MD; Pasquale Giugliano, MD; Carlo Pietro Campobasso, MD, PhD</i>
2:30 pm – 2:50 pm	I102	Par for the Course: Exploring Unexpected Golf-Related Fatalities in Northwest Florida <i>Andres Candela, MD*; Deanna Oleske, MD; Lorraine Lopez Morell, MD</i>
2:50 pm – 3:10 pm	I103	Military Defendants Exonerated by Independent Autopsy <i>Bret Dunn, JD*; Gerald Feigin, MD; Gil Sapir, JD, MSc; Benjamin Anderson, JD</i>
3:10 pm – 3:40 pm		Discussion and Q&A

Friday – Session II

Postmortem Markers

Moderator: Rhonda Mittenzwei, MD

Co-Moderator: Zach Burcham, PhD

8:30 am – 8:50 am	I104	Promising Autophagic Markers in Traumatic Brain Injury: An Immunohistochemical Study <i>Davide Radaelli, MD, PhD*; Tommaso Livieri, MD; Calogero Cuttaia, MD; Alice Mazzetto, BS; Emiliana Giacomello, PhD; Margherita Neri, MD, PhD; Stefano D’Errico, PhD</i>
8:50 am – 9:10 am	I105	Gross, Microscopic, and Immunohistochemical Features of Antemortem Thrombi, Agonal Thrombi, and Postmortem Clots: A Pilot Study <i>Nicola Pigaiani, MD, PhD*; Francesco Ausania, MD, PhD; Vito Cirielli, MD, PhD; Matteo Brunelli, MD, PhD; Federica Bortolotti, MD, PhD</i>
9:10 am – 9:30 am	I106	How Technology Can Enhance the Reliability of Histopathological Forensic Evidence for Use in Court <i>Irene Pradelle, MD*; Matilde Rujju, MD*; Laura Camilla Gasparini, MD; Luca Diani, MD; Giada Rovito, MD; Francesca Righini, PhD; Rosa Maria Gaudio, MD; Margherita Neri, MD, PhD</i>
9:30 am – 9:50 am	I107	Unraveling Sudden Unexpected Death: Metabolomic Insights From the Friuli-Venezia Giulia Sudden Cardiac Death Register in the Young <i>Davide Radaelli, MD, PhD*; Tommaso Livieri, MD; Monica Concato, MD; Raffaella Vetrini, MD; Aneta Aleksova, MD; Mariano Stornaiuolo, PhD; Stefano D’Errico, PhD</i>
9:50 am – 10:10 am	I108	Procalcitonin as a Marker of Sepsis at Autopsy: A Reflective, Novel, Evidence-Based, Effective Point-of-Care Tool <i>Aswini Chandran, MS*; Arneet Arora, MD; Sagar Khadanga, MD</i>
10:10 am – 10:30 am	I109	WITHDRAWN
10:30 am – 11:00 am		Discussion and Q&A
11:00 am – 1:00 pm		BREAK

PATHOLOGY/BIOLOGY

The Bigger Picture

Moderator: Siddhartha Das, MD

Co-Moderator: Sarah Gino, MD

- 1:00 pm – 1:20 pm **I110** **Standards Development Activities in Medicolegal Death Investigation and Forensic Pathology**
*J. Keith Pinckard, MD, PhD**
- 1:20 pm – 1:40 pm **I111** **A Comprehensive Framework for Undergraduate Forensic Medicine Training in Turkish Medical Faculties**
Ersi Kalfoglou, PhD; Aykut Taner Güven, MD; Sotirios Kalfoglou, PhD*
- 1:40 pm – 2:10 pm **I112** **Sudden Cardiac Death in the Balkan Area: A Multidisciplinary Approach and Multinational Cooperation**
Djordje Alempijevic, MD, PhD; Zlatko Jakovski, MD, PhD; Chara Spilopoulou, MD, PhD; Milica Keckarevic-Markovic, PhD; Ersi Kalfoglou, PhD; Davide Radaelli, MD, PhD; Karin Writzl, MD, PhD; Aleksandra Stankovic, PhD; Matteo Dal Ferro, MD; Aneta Aleksova, MD; Gianfranco Sinagra, MD; Giorgia Giroto, PhD*
- 2:10 pm – 2:30 pm **I113** **Forensic Medical Evidence and the Assessment of Violence at the International Borders in the Balkan Area**
Djordje Alempijevic, MD, PhD; Alan Mitchell, MBChB; Ömer Müslümanoğlu, MD; Alexander Minchev, MD; Nikola Kovačević, LLM*
- 2:30 pm – 2:50 pm **I114** **The 48-Hour Protocol on Deaths Following Traumatic Events at the Hospital of Novara in Eastern Piedmont, Italy: A Review of the Effectiveness of Reporting to the Judicial Authority**
Federica Collini, MD; Alessia Kretschmer, MD; Sarah Gino, MD*
- 2:50 pm – 3:20 pm **I115** **Cognitive Bias in Forensic Pathology: Types, Error, and Mitigation**
*Paul Uribe, MD**
- 3:20 pm – 3:40 pm **I116** **“To Err Is Human”: Ain’t? Medical and Forensic Perspectives on Artificial Intelligence Use in the Italian and European Context**
Antonio Marzaioli, MD; Enrica Macorano, MD; Giovanni De Gabriele, MD; Alessandro Cristalli, MD; Sara Di Trani, MD; Angela Colucci, MD; Francesco Introna, MD, PhD*
- 3:40 pm – 4:10 pm **Discussion and Q&A**

PATHOLOGY/BIOLOGY

Friday – Session III

Jay Dix Memorial Lecture Series

Moderator: James Gill, MD

9:00 am – 9:10 am	I117	Introduction <i>James Gill, MD</i>
9:10 am – 10:00 am	I117	Firearm Injuries <i>Andrew Baker, MD</i>
10:00 am – 10:15 am		BREAK
10:15 am – 11:05 am	I117	Thermal and Smoke Inhalation Injuries <i>Kanayo Tatsumi, MD</i>
11:05 am – 11:55 am	I117	Intoxication Deaths <i>Nicole Jackson, MD</i>
11:55 am – 2:00 pm		BREAK
2:00 pm – 2:50 pm	I117	Sudden Unexpected Deaths in Adults <i>Susan Ely, MD</i>
2:50 pm – 3:05 pm		BREAK
3:05 pm – 3:55 pm	I117	Investigation of Pediatric Deaths <i>Katherine Maloney, MD</i>
3:55 pm – 4:45 pm	I117	Death Certification <i>James Gill, MD</i>