

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*
- 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** **A Rare Case of Penetrating Atherosclerotic Ulcer Rupture in the Ascending Aorta With Cardiac Tamponade**
*Lorenzo Tornese, MD**; *Cristina Mondello, MD, PhD**; *Vincenzo Cianci, MD**;
Elvira Ventura Spagnolo, MD; *Patrizia Gualniera, MD, PhD*;
Daniela Sapienza, MD, PhD; *Alessio Asmundo, MD, PhD*
- 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*

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- 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
- 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*

PATHOLOGY/BIOLOGY

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 Sergentanis, 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**;
*Isabella Aquila, MD, PhD**; *Fabrizio Cordasco, MD, PhD*; *Raffaele Gangale, MD*;
Wandamaria Mazzuca
- 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**
*Alessandro Feola, MD, PhD**; *Federica Cascone, MD*; *Mariavictoria De Simone, MD*;
Ilaria Fracassi, MD; *Paolo Palermo, MD*; *Filomena Casella, MD*;
Pasquale Giugliano, MD; *Anna Carfora, PhD*; *Carlo Pietro Campobasso, MD, PhD*

PATHOLOGY/BIOLOGY

- 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*;
Isabella Aquila, MD, PhD*; Saverio Gualtieri, MD; Raffaele Gangale, MD;
Pietrantonio Ricci, 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*; Isabella Aquila, MD, PhD*;
Fabrizio Cordasco, MD, PhD; Lucia Tarda, MD; Santo Gratteri, MD*
- 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*
- 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*

PATHOLOGY/BIOLOGY

Thursday – Session I

Omics Approaches in Forensic Taphonomy

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| 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? <i>Noemi Procopio, PhD*</i> |
| 8:30 am – 8:50 am | I42 | The Impact of Heroin on Thanatomicrobiome and the Postmortem Interval <i>Christina Harris*; Gulnaz Javan, PhD*; Sarah Shado, MScFS; Silvia Visonà, PhD</i> |
| 8:50 am – 9:10 am | I43 | Investigating Flunitrazepam’s Influence on <i>Calliphora Vicina</i> (Diptera: Calliphoridae) Growth and Its Impact on Microbiome Diversity <i>Lavinia Iancu, PhD*; Noemi Procopio, PhD; Andrea Bonicelli, PhD; Ranjana Mosby, BS</i> |
| 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 <i>Kelly Waters, BS*; Anthony Grigsby, MS; Bethany Mikles, MS; Jennifer Pechal, PhD; Mark Benbow, PhD</i> |
| 9:30 am – 9:50 am | I45 | Differential Biochemical Decomposition in Single and Mass Grave Deposition <i>Andrea Bonicelli, PhD*; Nengi Ogbanga, PhD; Danny Wescott, PhD; Timothy Gocha, PhD; Hayley Mickleburgh, PhD; Noemi Procopio, PhD</i> |
| 9:50 am – 10:10 am | I46 | A Metabolomic Regression Model for PMI Estimation on Human Pericardial Fluid <i>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</i> |
| 10:10 am – 10:30 am | I47 | Estimation of the Postmortem Interval in Human Vitreous Humor by Infrared Spectroscopy. <i>Eva Montanari, PhD*; Angelo Montana, MD, PhD*; Francesco Paolo Busardò</i> |
| 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 <i>Stefan Pittner, PhD*; Peter Steinbacher, PhD; Fabio Monticelli, PhD</i> |
| 11:00 am – 11:30 am | | Discussion and Q&A |
| 11:30 am – 1:00 pm | | BREAK |

PATHOLOGY/BIOLOGY

Entomology and Ecology

- 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*
- 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

- 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** **The Potential Help of Technology in Rare Diseases: The Case of a Child With Gorham-Stout Syndrome**
Andrea Costantino, MD; Marta Guerini, MD*; Beatrice Defraia, MD; Flavio Giordano, MD; Martina Focardi, MD*

PATHOLOGY/BIOLOGY

Thursday – Session II

Case Studies and Reviews – Part 1

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| 8:30 am – 8:50 am | I60 | Bayou Blues: Unraveling Mysteries of the Murky Depths of the Houston Bayou System <i>Daniel Taylor, MD*; Si Gao, MS; 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*; Nichole Miller, BS; 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*; Christopher Gulledege, MD; 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*; 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*; Pete Speth, MD; 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

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| 1:00 pm – 1:15 pm | L47 | Two Fatalities Involving Hydroxychloroquine <i>Teresa Gray, PhD*; Jennifer Ross, MD; 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*; 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*; Sandra Bishop-Freeman, PhD</i> |

PATHOLOGY/BIOLOGY

- 2:00 pm – 2:15 pm **I66** **Drug-Related Deaths in the Elderly: A Five-Year Overview of Western Michigan**
*Abigail Grande, MPH**; Gemma Harkin, MPH; Bo Collins, MPH;
Amanda Fisher-Hubbard, MD
- 2:15 pm – 2:30 pm **I67** **Fatal Intoxications vs. Congenital Cardiac Disorders in Sudden Death: Where to Draw the Line?**
*Alexandra Dimitrova, RF**; Simone Grassi, MD; Fabio Vaiano, PhD;
Vincenzo Arena, MD; Oscar Campuzano, MD; Sabina Strano Rossi, PhD;
Ramon Brugada, MD; Antonio Oliva, MD, PhD
- 2:30 pm – 2:45 pm **I68** **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 **I69** **Sodium Azide/Nitrite Suicides in the Netherlands Between 2015 and 2022**
*Karen van den Hondel, PhD**; Dominique van Pelt, MS; Lianne Schweren, PhD;
Manon Ceelen, PhD
- 3:00 pm – 3:15 pm **I70** **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

Posters

- 11:30 am – 1:00 pm **I71** **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 **I72** **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 **I73** **Models of Autopsy Techniques Compared in the Era of Minimally Invasive Techniques**
*Saverio Gualtieri, MD**; Maria Chiara Militi*; Matteo Antonio Sacco, MD*;
Isabella Aquila, MD, PhD*; Fabrizio Cordasco, MD, PhD; Pietro Tarzia, MD;
Raffaele Gangale, MD; Pietrantonio Ricci, MD, PhD
- 11:30 am – 1:00 pm **I74** **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

PATHOLOGY/BIOLOGY

- 11:30 am – 1:00 pm **I75** **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 **I76** **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 **I77** **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 **I78** **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*
- 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*

PATHOLOGY/BIOLOGY

- 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*

Friday – Session I

Pregnancy-Related and Pediatric Deaths

- 8:00 am – 8:20 am **I90** **Pregnancy-Associated Manners of Death in Western Michigan, 2016–2024**
*Nicolas Kostecky, MD**; *Hunter Berger, BS*; *Anna Tart, MD*; *Abigail Grande, MPH*;
Amanda Fisher-Hubbard, MD
- 8:20 am – 8:40 am **I91** **An Approach to Placental Examination and Placental Pathology for the Forensic Pathologist**
*Michael Harrell, MD**; *Jolee Suddock, DO*; *Lorraina Robinson, DO*; *Paul Zamara, MD*
- 8:40 am – 9:10 am **I92** **Examining the Lung Float Test: Ending the Use of a Broken Tool for Pregnancy Criminalization and Wrongful Convictions**
*Dara Gell, JD**
- 9:10 am – 9:40 am **I93** **Genetic Insights Into Pediatric Sudden Cardiac Death: A Case Report of Anomalous Left Coronary Artery Originating From the Right Sinus of Valsalva**
*Alejandro Partida Contreras, MD**; *Romina Malerba, MD*; *Mario Rascon, MD*
- 9:40 am – 10:00 am **I94** **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**
*Ashley Smith, MD**; *Tammy Sexton, BA*; *William Harrison, MD*; *Anna McDonald, MD*;
Patrick Lantz, MD

PATHOLOGY/BIOLOGY

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| 10:00 am – 10:20 am | I95 | Frequency and Distribution Patterns of Rib Fractures in Deceased Neonates, Infants, and Young Children <i>Olivia Millington, MS*; Emma Cheshire, PhD; Roger Malcomson, PhD</i> |
| 10:20 am – 10:40 am | I96 | Pediatric Autopsies in Luxembourg: A Retrospective Analysis of a Five-Year Period (2018–2022) <i>Thorsten Schwark, MD*; Martine Schaul, MD</i> |
| 10:40 am – 11:00 am | I97 | Suicides in Children and Young Teens: A Nine-Year Retrospective Review From the Cook County Medical Examiner’s Office <i>Ilaria Tarozzi, MD*; 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

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| 1:00 pm – 1:20 pm | I98 | Tragic Homecoming—Fatal Dengue-Induced Myocarditis in a Maldives Vacationer: A Case Report <i>Beatrice Snidero, MD*; Diana Bonuccelli, MD; Marco Conti, MD; Scilla Lenzi, MD; Raffaella Vetrini, MD; Maria Buffon, MD</i> |
| 1:20 pm – 1:40 pm | I99 | A Nearly Missed Homicide: Pre-Cremation and Delayed Detection of Gunshot Wounds in a Mistaken Love Triangle <i>Wendy Gunther, MD*</i> |
| 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 |

PATHOLOGY/BIOLOGY

Friday – Session II

Postmortem Markers

- 8:30 am – 8:50 am **I104** **Promising Autophagic Markers in Traumatic Brain Injury: An Immunohistochemical Study**
 Davide Radaelli, MD, PhD; Tommaso Livieri, MD; Calogero Cuttaia, MD; Alice Mazzetto, BS; Emiliana Giacomello, PhD; Margherita Neri, MD, PhD; Stefano D’Errico, PhD*
- 8:50 am – 9:10 am **I105** **Gross, Microscopic, and Immunohistochemical Features of Antemortem Thrombi, Agonal Thrombi, and Postmortem Clots: A Pilot Study**
 Nicola Pigaiani, MD, PhD; Francesco Ausania, MD, PhD; Vito Cirielli, MD, PhD; Matteo Brunelli, MD, PhD; Federica Bortolotti, MD, PhD*
- 9:10 am – 9:30 am **I106** **How Technology Can Enhance the Reliability of Histopathological Forensic Evidence for Use in Court**
 Irene Pradelle, MD; Matilde Ruju, MD*; Laura Camilla Gasparini, MD; Luca Diani, MD; Giada Rovito, MD; Francesca Righini, PhD; Rosa Maria Gaudio, MD; Margherita Neri, MD, PhD*
- 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**
 Davide Radaelli, MD, PhD; Tommaso Livieri, MD; Monica Concato, MD; Raffaella Vetrini, MD; Aneta Aleksova, MD; Mariano Stornaiuolo, PhD; Stefano D’Errico, PhD*
- 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**
 Aswini Chandran, MS; Arneet Arora, MD; Sagar Khadanga, MD*
- 10:10 am – 10:30 am **I109** **Trying to Establish a New Paradigm With the Help of Genetic Analysis for Investigating Sudden Cardiac Death in India: A Preliminary Study**
 Jatin Bodwal, MD; Sudhir Arava, MD*
- 10:30 am – 11:00 am **Discussion and Q&A**
- 11:00 am – 1:00 pm **BREAK**

The Bigger Picture

- 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*

PATHOLOGY/BIOLOGY

- 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

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| 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>Susan Ely, MD</i> |
| 3:55 pm – 4:45 pm | I117 | Death Certification <i>James Gill, MD</i> |