

# PATHOLOGY/BIOLOGY

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## Wednesday

### Poster Session

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- 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
- 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

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- 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*

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## Thursday

### Poster Session

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- 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\**;  
*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**  
*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\**;  
*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\**

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- 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*

## Thursday – Session I

### Omics Approaches in Forensic Taphonomy

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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*

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9:30 am – 9:50 am	<b>I45</b>	<b>Differential Biochemical Decomposition in Single and Mass Grave Deposition</b> <i>Andrea Bonicelli, PhD*</i> ; <i>Nengi Ogbanga, PhD</i> ; <i>Danny Wescott, PhD</i> ; <i>Timothy Gocha, PhD</i> ; <i>Hayley Mickleburgh, PhD</i> ; <i>Noemi Procopio, PhD</i>
9:50 am – 10:10 am	<b>I46</b>	<b>A Metabolomic Regression Model for PMI Estimation on Human Pericardial Fluid</b> <i>Alberto Chighine, MD*</i> ; <i>Matteo Stocchero, PhD</i> ; <i>Giulio Ferino, PhD</i> ; <i>Fabio De-Giorgio, MD, PhD</i> ; <i>Matteo Nioi, MD</i> ; <i>Ernesto d'Aloja, MD, PhD</i> ; <i>Emanuela Locci, PhD</i>
10:10 am – 10:30 am	<b>I47</b>	<b>Estimation of the Postmortem Interval in Human Vitreous Humor by Infrared Spectroscopy</b> <i>Eva Montanari, PhD*</i> ; <i>Angelo Montana, MD, PhD*</i> ; <i>Francesco Paolo Busardò</i>
10:30 am – 11:00 am	<b>I48</b>	<b>Why “Novel PMI Estimation Methods” Are Rarely Applied in Forensic Routine: An Example on a Decade of Research on Postmortem Protein Degradation</b> <i>Stefan Pittner, PhD*</i> ; <i>Peter Steinbacher, PhD</i> ; <i>Fabio Monticelli, PhD</i>
11:00 am – 11:30 am		<b>Discussion and Q&amp;A</b>
11:30 am – 1:00 pm		<b>BREAK</b>

## Entomology and Ecology

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Moderator: David Carter, PhD

Co-Moderator: Andrea Bonicelli, PhD

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

# PATHOLOGY/BIOLOGY

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## New Technologies and Imaging to Improve Forensic Investigations

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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\*; Meishialette 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*

## Thursday – Session II

### Case Studies and Reviews—Part 1

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Moderator: Nicole Croom, MD, MPH

Co-Moderator: Dorothy Dean, MD

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

# PATHOLOGY/BIOLOGY

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## Multidisciplinary Session: Pathology/Biology and Toxicology

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Moderator: Gregory Schmunk, MD

Co-Moderator: Rebecca Hartman, PhD

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| 1:00 pm – 1:15 pm | <b>L47</b> | <b>Two Fatalities Involving Hydroxychloroquine</b><br><i>Teresa Gray, PhD*</i> ; <i>Jennifer Ross, MD</i> ; <i>Marianne Beynon, MD</i>  |
| 1:15 pm – 1:30 pm | <b>L48</b> | <b>An Unexpected Fatal Methadone Ingestion in a Child</b><br><i>Jordan Taylor, MD*</i>  |
| 1:30 pm – 1:45 pm | <b>L49</b> | <b>A Toxicological and Pathological Re-Evaluation of Media-Reported Mitragynine (Kratom) Deaths in Florida</b><br><i>Marilyn Huestis, PhD*</i> ; <i>Karl Williams, MD</i>   |
| 1:45 pm – 2:00 pm | <b>L50</b> | <b>Endogenous Carbon Monoxide Due to Hemolytic Anemia: A Forensic Red Herring</b><br><i>Orianna Thomas, MSFS*</i> ; <i>Sandra Bishop-Freeman, PhD</i>   |
| 2:00 pm – 2:15 pm | <b>I66</b> | <b>Drug-Related Deaths in the Elderly: A Five-Year Overview of Western Michigan</b><br><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 | <b>I67</b> | <b>Fatal Intoxications vs. Congenital Cardiac Disorders in Sudden Death: Where to Draw the Line?</b><br><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> |
| 2:30 pm – 2:45 pm | <b>I68</b> | <b>Illicit Drug Deaths in Decedents Over 60 Years of Age in the City and County of San Francisco From 2020 to 2024</b><br><i>Ellen Moffatt, MD*</i> ; <i>Luke Rodda, PhD</i> ; <i>Anson Tsang, MS</i>   |
| 2:45 pm – 3:00 pm | <b>I69</b> | <b>Sodium Azide/Nitrite Suicides in the Netherlands Between 2015 and 2022</b><br><i>Karen van den Hondel, PhD*</i> ; <i>Dominique van Pelt, MS</i> ; <i>Lizanne Schweren, PhD</i> ; <i>Manon Ceelen, PhD</i>  |
| 3:00 pm – 3:15 pm | <b>I70</b> | <b>Fatal Drug Intoxication in the Pediatric Population of El Paso, Texas</b><br><i>Romina Malerba, MD</i> ; <i>Alejandro Partida Contreras, MD*</i> ; <i>Adam Gonzalez, MD</i> ; <i>Mario Rascon, MD</i>  |



# PATHOLOGY/BIOLOGY

## 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\**;  
*Isabella Aquila, MD, PhD\**; *Fabrizio Cordasco, MD, PhD*; *Pietro Tarzia, MD*;  
*Raffaele Gangale, MD*; *Pietrantonio Ricci, 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*
- 11:30 am – 1:00 pm      **179**      **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      **180**      **Extra-Articular Gout Deposits Can Be Clinically Significant and Contribute to Death**  
*Ellen Moffatt, MD\**; *Stephany Fiore, MD*
- 11:30 am – 1:00 pm      **181**      **Digital Pathology in Education: Shaping Career Choices and Recruitment Strategies in Forensic Pathology**  
*Nahimarys Colón Hernández, MD\**



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- 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*

## Friday – Session I

### Pregnancy-Related and Pediatric Deaths

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Moderator: Michael Harrell, MD

Co-Moderator: Jolee Suddock, DO

- 8:00 am – 8:20 am **I90** **Pregnancy-Associated Manners of Death in Western Michigan, 2016–2024**  
*Nicolas Kostelecky, 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 Zamiara, 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*

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9:40 am – 10:00 am	<b>I94</b>	<b>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</b> <i>Ashley Smith, MD*; Tammy Sexton, BA; William Harrison, MD; Anna McDonald, MD; Patrick Lantz, MD</i>
10:00 am – 10:20 am	<b>I95</b>	<b>Frequency and Distribution Patterns of Rib Fractures in Deceased Neonates, Infants, and Young Children</b> <i>Olivia Millington, MS*; Emma Cheshire, PhD; Roger Malcomson, PhD</i>
10:20 am – 10:40 am	<b>I96</b>	<b>Pediatric Autopsies in Luxembourg: A Retrospective Analysis of a Five-Year Period (2018–2022)</b> <i>Thorsten Schwark, MD*; Martine Schaul, MD</i>
10:40 am – 11:00 am	<b>I97</b>	<b>Suicides in Children and Young Teens: A Nine-Year Retrospective Review From the Cook County Medical Examiner’s Office</b> <i>Ilaria Tarozzi, MD*; Lorenzo Gitto, MD</i>
11:00 am – 11:30 am		<b>Discussion and Q&amp;A</b>
11:30 am – 1:00 pm		<b>BREAK</b>

## Case Studies and Reviews—Part 2

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Moderator: Denise Gemmellaro, PhD

Co-Moderator: Sterling McLaren, MD

1:00 pm – 1:20 pm	<b>I98</b>	<b>Tragic Homecoming—Fatal Dengue-Induced Myocarditis in a Maldives Vacationer: A Case Report</b> <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	<b>I99</b>	<b>A Nearly Missed Homicide: Pre-Cremation and Delayed Detection of Gunshot Wounds in a Mistaken Love Triangle</b> <i>Wendy Gunther, MD*</i>
1:40 pm – 2:10 pm	<b>I100</b>	<b>An Update on Forensic and Medicolegal Aircraft Accident Investigation: New Challenges Meet Novel Technologies</b> <i>Michael Schwerer, MD*</i>
2:10 pm – 2:30 pm	<b>I101</b>	<b>Familial Dyadic Deaths: A Sample Study From Southern Italy</b> <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	<b>I102</b>	<b>Par for the Course: Exploring Unexpected Golf-Related Fatalities in Northwest Florida</b> <i>Andres Candela, MD*; Deanna Oleske, MD; Lorraine Lopez Morell, MD</i>
2:50 pm – 3:10 pm	<b>I103</b>	<b>Military Defendants Exonerated by Independent Autopsy</b> <i>Bret Dunn, JD*; Gerald Feigin, MD; Gil Sapir, JD, MSc; Benjamin Anderson, JD</i>
3:10 pm – 3:40 pm		<b>Discussion and Q&amp;A</b>

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## Friday – Session II

### Postmortem Markers

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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**  
*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

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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

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2:10 pm – 2:30 pm	<b>I113</b>	<b>Forensic Medical Evidence and the Assessment of Violence at the International Borders in the Balkan Area</b> <i>Djordje Alempijevic, MD, PhD*</i> ; <i>Alan Mitchell, MBChB</i> ; <i>Ömer Müslümanoğlu, MD</i> ; <i>Alexander Minchev, MD</i> ; <i>Nikola Kovačević, LLM</i>
2:30 pm – 2:50 pm	<b>I114</b>	<b>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</b> <i>Federica Collini, MD*</i> ; <i>Alessia Kretschmer, MD</i> ; <i>Sarah Gino, MD</i>
2:50 pm – 3:20 pm	<b>I115</b>	<b>Cognitive Bias in Forensic Pathology: Types, Error, and Mitigation</b> <i>Paul Uribe, MD*</i>
3:20 pm – 3:40 pm	<b>I116</b>	<b>“To Err Is Human”: Ain’t? Medical and Forensic Perspectives on Artificial Intelligence Use in the Italian and European Context</b> <i>Antonio Marzaioli, MD*</i> ; <i>Enrica Macorano, MD</i> ; <i>Giovanni De Gabriele, MD</i> ; <i>Alessandro Cristalli, MD</i> ; <i>Sara Di Trani, MD</i> ; <i>Angela Colucci, MD</i> ; <i>Francesco Introna, MD, PhD</i>
3:40 pm – 4:10 pm		<b>Discussion and Q&amp;A</b>

## Friday – Session III

### Jay Dix Memorial Lecture Series

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Moderator: James Gill, MD

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