

# 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

# PATHOLOGY/BIOLOGY

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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

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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 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

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- 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

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## Thursday – Session I

### Omics Approaches in Forensic Taphonomy

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8:00 am – 8:30 am	I41	<b>A Decade of “Omics” in Forensic Science From Lab to Court: Where Are We Standing, Where Are We Going?</b> <i>Noemi Procopio, PhD*</i>
8:30 am – 8:50 am	I42	<b>The Impact of Heroin on Thanatomicrobiome and the Postmortem Interval</b> <i>Christina Harris*; Gulnaz Javan, PhD*; Sarah Shado, MScFS; Silvia Visonà, PhD</i>
8:50 am – 9:10 am	I43	<b>Investigating Flunitrazepam’s Influence on <i>Calliphora Vicina</i> (Diptera: Calliphoridae) Growth and Its Impact on Microbiome Diversity</b> <i>Lavinia Iancu, PhD*; Noemi Procopio, PhD; Andrea Bonicelli, PhD; Ranjana Mosby, BS</i>
9:10 am – 9:30 am	I44	<b>Microbial Succession of Necrophagous Beetles and Soil During Small Carcass Decomposition: Potential Uses in Understanding Body Translocation Scenarios</b> <i>Kelly Waters, BS*; Anthony Grigsby, MS; Bethany Mikles, MS; Jennifer Pechal, PhD; Mark Benbow, PhD</i>
9:30 am – 9:50 am	I45	<b>Differential Biochemical Decomposition in Single and Mass Grave Deposition</b> <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	<b>A Metabolomic Regression Model for PMI Estimation on Human Pericardial Fluid</b> <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	<b>Estimation of the Postmortem Interval in Human Vitreous Humor by Infrared Spectroscopy.</b> <i>Eva Montanari, PhD*; Angelo Montana, MD, PhD*; Francesco Paolo Busardò</i>
10:30 am – 11:00 am	I48	<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*; Peter Steinbacher, PhD; 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>

# PATHOLOGY/BIOLOGY

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## Entomology and Ecology

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- 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

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- 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

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## ***Thursday – Session II***

### **Case Studies and Reviews – Part 1**

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

### **Multidisciplinary Session: Pathology/Biology and Toxicology**

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1:00 pm – 1:15 pm	<b>L47</b>	<b>Two Fatalities Involving Hydroxychloroquine</b> <i>Teresa Gray, PhD*; Jennifer Ross, MD; Marianne Beynon, MD</i>
1:15 pm – 1:30 pm	<b>L48</b>	<b>An Unexpected Fatal Methadone Ingestion in a Child</b> <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> <i>Marilyn Huestis, PhD*; 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> <i>Orianna Thomas, MSFS*; Sandra Bishop-Freeman, PhD</i>

# PATHOLOGY/BIOLOGY

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- 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

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- 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

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- 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

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- 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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- 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	<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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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>

# PATHOLOGY/BIOLOGY

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## Friday – Session II

### Postmortem Markers

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- 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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- 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

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- 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

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## **Friday – Session III**

### **Jay Dix Memorial Lecture Series**

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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>