



Poster Session 2

Thursday, September 17 (11:15 – 12:30)

P 111 The problem of DNA contamination in forensic case work-How to get rid of unwanted DNA?

Andrea Preuße-Prange¹, Rebecca Renneberg¹, Thorsten Schwark¹, Eva Simeoni¹, Nicole von Wurmb-Schwark¹, ¹*Institute of Legal Medicine-Univ. of Kiel, Kiel, Germany*

P 112 An alternative strategy for whole mitochondrial genome amplification and sequencing suited for lower quality mtDNA

Bettina Zimmermann¹, Gabriela Huber¹, Liane Fendt¹, Walther Parson¹, ¹*Institute of Legal Medicine, Innsbruck Medical University, Innsbruck, Austria*

P 113 Alterations of Length Heteroplasmy in Mitochondrial DNA Under Various Amplification Conditions

Seung Bum Seo¹, Byoung Su Jang¹, Aihua Zhang¹, Jin A Yi¹, Hye Yeon Kim¹, Seong Ho Yoo^{1,2}, Yoon Seong Lee^{1,2}, Soong Deok Lee^{1,2}, ¹*Department of Forensic Medicine Seoul National University College of Medicine, Seoul, Korea, Republic of*, ²*Institute of Forensic Medicine, Seoul National University, Seoul, Korea, Republic of*

P 114 MtSNP typing before mtDNA sequencing: Why do it?

Paulo Dario^{1,2}, Joana Bom², Teresa Ribeiro¹, Rosa Espinheira¹, Helena Geada^{1,2}, ¹*National Institute of Legal Medicine – South Branch, Lisbon, Portugal*, ²*Faculty of Medicine, University of Lisbon, Lisbon, Portugal*

P 115 Collecting cell material for DNA-typing from clothing using filtertips and vacuum

Peter Berschick¹, ¹*Landeskriminalamt, Nordrhein-Westfalen, Germany*

P 116 Washing with Ethanol - a suitable Method of DNA-Extraction?

Juliane Sanft¹, Juliane Strien¹, Gita Mall¹, ¹*Institute of Forensic Medicine, Jena, Germany*

P 117 Trace DNA collection - performance of minitape and three different swabs

Oskar Hansson¹, Mariam Bouzga¹, Marianne Finnebraaten¹, Ingebjørg Knutsen Heitmann¹, Merete Ramse¹, ¹*Institute of Forensic Medicine, Oslo, Norway*

P 118 Optimisation of Cellular DNA Recovery from Tape-Lifts

Ross May¹, Jim Thomson¹, ¹*LGC Forensics, Teddington/Middlesex, United Kingdom*

P 119 One method of collecting the fallen off the epithelial cells

Xianhua Jiang¹, ¹*Criminal Science & Technology Institute of Liaoning Province, Liaoning Province, China*



P 120 The analysis of biological samples from crime scene for a future human DNA profile confrontation. Effects of presumptive test reagents on the ability to obtain STR profiles for human identification

Eloísa Auler-Bittencourt¹, José Arnaldo Soares-Vieira², Natalia Geenen Angeramis¹, Claudia Elaine da Silva¹, Roberta Casemiro da Rocha Hirschfeld¹, Edna Sadayo Miazato Iwamura³, ¹*Instituto de Criminalística de São Paulo - Núcleo de Biologia e Bioquímica Laboratório de DNA, São Paulo, SP, Brazil*, ²*Department of Legal Medicine, Medical Ethics, Social Medicine and Occupational Health, Faculty of Medicine, University of São Paulo, FMUSP, São Paulo, SP, Brazil*, ³*Paulista Medical School, Federal University of São Paulo-EPM/UNIFESP, Department of Pathology, São Paulo, SP, Brazil*

P 121 Influence of the luminol chemiluminescence reaction in confirmatory tests for detection and characterization of bloodstains in forensic analysis

Valéria Rosalina Dias E Santos^{1,2}, Washington Xavier de Paula¹, Evanguedes Kalapothakis², ¹*Polícia Civil of Minas Gerais, Belo Horizonte/Minas Gerais, Brazil*, ²*Federal University of Minas Gerais, Belo Horizonte/Minas Gerais, Brazil*

P 122 Grading a rape case followed by death from the study of autosomal STRs and STRs of the Y chromosome - Case Study

Eugenio Nascimento^{1,2}, Eleusa Oliveira¹, Tania Gesteira¹, Luis Machado¹, Wendel Shibasaki¹, Joao Oliveira¹, ¹*Laboratorio Central de Policia Tecnica, Salvador/Bahia, Brazil*, ²*Universidade Estadual de Feira de Santana, Feira de Santana/Bahia, Brazil*

P 123 Case report of a homicide resolved 15 years later: the robustness of the Chelex extraction

Luciana Caenazzo¹, Elena Ponzano¹, Nicoletta Cerri², ¹*Department of Environmental Medicine and Public Health - University of Padua, Padua, Italy*, ²*Department of Forensic Medicine - University of Brescia, Brescia, Italy*

P 124 Statistical analysis of DNA mixtures using peak area information in a case of savage murder.

Alessio Coletti¹, Simona Severini¹, Susanna Massetti¹, Sara Merigioli², Massimo Lancia¹, Luigi Carlini¹, ¹*University of Perugia, Perugia, Umbria, Italy*, ²*Catholic University of Sacred Heart, Roma, Italy*

P 125 Identification of Gestational Trophoblastic Disease in a sexual assault case.

Kun-Tien Wu¹, Kuo-Lan Liu¹, Su-Wen Liu¹, Ching-Mei Lin¹, Zheng-Yuan Lee¹, Sheng-Yu Chu¹, Sheaw-Guey Cheng¹, ¹*CRIMINAL INVESTIGATION BUREAU, Taipei, Taiwan*

P 126 Forensic application of Y chromosome SNPs in inconclusive cases

Pedro Brito¹, Mónica Carvalho¹, Ana Margarida Bento¹, Heloísa Afonso Costa¹, Lisa Andrade¹, Armando Serra¹, Virgínia Lopes¹, Filipa Balsa¹, Luísa Batista¹, Clara Oliveira¹, Francisco Corte-Real^{2,3}, Maria João Anjos¹, ¹*Forensic Genetic Service, Centre Branch, National Institute of Legal Medicine, I.P., Coimbra, Portugal*, ²*National Institute of Legal Medicine I.P., Coimbra, Portugal*, ³*Faculty of Medicine, University of Coimbra, Coimbra, Portugal*



P 127 Traffic accident vs homicide: the contribution of DNA analysis to clarify this mystery. A case report.

Lisbeth Borjas¹, William Zabala¹, Tatiana Pardo¹, José M. Quintero¹, Samanta Guerra^{2,4}, Elio Guerra^{2,4}, Américo Rodríguez³, Jorge Crespo³, Diana Bracho¹, ¹Lab. Genética Molecular. Unidad de Genética Médica. Universidad del Zulia, Maracaibo, Venezuela, ²Cuerpo de investigaciones científicas, penales y criminalísticas, Maracaibo, Venezuela, ³Ministerio Público, Falcón, Venezuela, ⁴Departamento de Anatomía Patológica. Universidad del Zulia, Maracaibo, Venezuela

P 128 Human being eaten by his own dogs: genetic confirmation through analysis of bones recovered in a dog's stomach content

Armando Serra¹, João Pinheiro², Luísa Batista¹, Ana Margarida Bento¹, Filipa Balsa¹, Heloísa Afonso Costa¹, Virgínia Lopes¹, Lisa Andrade¹, Clara Oliveira¹, Mónica Carvalho¹, Francisco Corte-Real^{2,3}, Maria João Anjos¹, ¹Genetic and Forensic Biology Department, Centre Branch, National Institute of Legal Medicine, I.P., Coimbra, Portugal, ²Centre Branch, National Institute of Legal Medicine, I.P., Coimbra, Portugal, ³Faculty of Medicine, University of Coimbra, Coimbra, Portugal

P 129 DNA analysis of biological material on bullets and crime scene reconstruction

Samuel Teixeira Gomes Ferreira¹, Aluisio Trindade Filho¹, Cláudia Regina Barbosa de Oliveira Mendes¹, Flávia Andrade Seixas Maia¹, Hyung Il Pak¹, Karla Angélica Alves de Paula¹, Harold Drefahl Junior², Raul Pithon Barretto Neto², ¹Instituto de Pesquisa de DNA Forense da Polícia Civil do Distrito Federal, Brasília, DF, Brazil, ²Instituto de Criminalística da Polícia Civil do Distrito Federal, Brasília, DF, Brazil

P 130 Forensic application of mitochondrial DNA SNPs

Ana Margarida Bento¹, Virgínia Lopes¹, Armando Serra¹, Heloísa Afonso Costa¹, Filipa Balsa¹, Lisa Andrade¹, Clara Oliveira¹, Luísa Batista¹, Maria João Anjos¹, Mónica Carvalho¹, Francisco Corte-Real^{2,3}, ¹Forensic Genetics Service, Centre Branch, National Institute of Legal Medicine, I.P., Coimbra, Portugal, ²National Institute of Legal Medicine I.P., Coimbra, Portugal, ³Faculty of Medicine, University of Coimbra, Coimbra, Portugal

P 131 Case Report: Crime investigation set on Mitochondrial DNA analysis

Heloísa Afonso Costa¹, Mónica Carvalho¹, Filipa Balsa¹, Ana Margarida Bento¹, Armando Serra¹, Virgínia Lopes¹, Lisa Andrade¹, Luísa Batista¹, Clara Oliveira¹, Francisco Corte-Real^{2,3}, Maria João Anjos¹, ¹Forensic Genetics Service, Centre Branch, National Institute of Legal Medicine, I.P., Coimbra, Portugal, ²National Institute of Legal Medicine, I.P., Coimbra, Portugal, ³Faculty of Medicine, University of Coimbra, Coimbra, Portugal

P 132 Two completely different mitochondrial genomes within blood cells of three healthy individuals

Sabine Lutz-Bonengel¹, Timo Saenger¹, Harald Niederstaetter², Walther Parson², ¹Institute of Legal Medicine, D-79110 Freiburg, Albertstrasse 9, Germany, ²Institute of Legal Medicine, A-6020 Innsbruck, Muellerstrasse 44, Austria



- P 133 An homoplasmic large deletion in mtDNA control region: case report**
Josefina MB Motti¹, Emma L Alfaro², José E Dipierri², Marina Muzzio¹, Virginia Ramallo¹, María R Santos¹, Jodi Irwin³, Melissa Scheible³, Jessica Saunier³, Michael Coble³, Graciela Bailliet¹, Claudio Bravi¹, ¹IMBICE (CCT-La Plata, CONICET-CICPBA), La Plata, province of Buenos Aires, Argentina, ²Instituto de Biología de la Altura, Universidad Nacional de Jujuy, San Salvador de Jujuy, province of Jujuy, Argentina, ³Armed Forces DNA Identification Laboratory (AFDIL), Rockville, MD, 20850, United States
- P 134 A Paternal Mutation in the Penta D STR Locus.**
Catherine Thacker¹, Esther Musgrave-Brown¹, David Ballard¹, Denise Syndercombe Court¹, ¹Barts and The London School of Medicine and Dentistry, London, United Kingdom
- P 135 Non-exclusion maternity case with two apparent genetic incompatibilities, a mutation and a null allele**
Gerhard Mertens¹, Steven Rand¹, John Butler², Margaret Kline², Els Jehaes¹, Nadia Mommers¹, Els Cardoen¹, Isabelle De Bruyn¹, Gitte Leijnen¹, Kristien Van Brussel¹, Werner Jacobs¹, ¹Antwerp University Hospital, Edegem, Belgium, ²National Institute of Standards and Technology, Gaithersburg, MD, United States
- P 136 Tetragametic Chimerism. ¿Nature rarities or not an unusual finding in paternity testing studies?**
Juan J Yunis^{1,2}, Emilio J Yunis¹, Adriana Cuervo¹, Guillermo A. Castro¹, Liz Carolina Pardo¹, ¹Servicios Medicos Yunis Turbay y Cia, Bogota, DC,, Colombia, ²Departamento de Patología, Facultad de Medicina, Universidad Nacional de Colombia, Bogota, DC,, Colombia
- P 137 Chimerism Detected in Fraternal Twins using ABI AmpF/STR® Identifier**
Eileen Wu¹, Maria Andres¹, Donald Love², Patricia Stapleton¹, ¹DNA Diagnostics Ltd, Auckland, New Zealand, ²Lab Plus, Auckland Hospital, Auckland, New Zealand
- P 138 A case of chimerism in a paternity study**
Cecilia Miozzo^{2,3}, Karina Maxzud^{1,2}, Eugenia Altuna¹, Andrea Belaus¹, Alejandra Lavezzo^{1,2}, Nidia Modesti^{1,2}, ¹CEPROCOR – Ministerio de Ciencia y Tecnología de Córdoba, Córdoba, Argentina, ²Poder Judicial de la Provincia de Córdoba, Córdoba, Argentina, ³Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Córdoba, Argentina
- P 139 Paternity Testing involving human remains identification and putative half sisters: Usefulness of an X-hexaplex STR markers**
Fernanda Manta¹, Dayse Silva^{1,2}, Marcia Desidério¹, Celso Tavares^{1,3}, Elizeu Carvalho¹, ¹Institute of Biology, DNA Diagnostic Laboratory, State University of Rio de Janeiro, Rio de Janeiro, Brazil, ²Faculty of Medicine, State University of Rio de Janeiro, Rio de Janeiro, Brazil, ³Institute of Biology, DBC, State University of Rio de Janeiro, Rio de Janeiro, Brunei Darussalam
- P 140 Prenatal Testing in Paternity Testing: A Positive Perspective.**
Catherine Thacker¹, David Ballard¹, Denise Syndercombe Court¹, ¹Barts and The London School of Medicine and Dentistry, London, United Kingdom



- P 141 X-STRs analysis in paternity testing when the alleged father is related to the biological father**
Ulises Toscanini¹, Gabriela Berardi¹, Andrea Gomez¹, Eduardo Raimondi¹,
¹PRICAI-FUNDACIÓN FAVALORO, C. Aut. de Buenos Aires, Argentina
- P 142 Utility of Y- and X-STRs in the research of complex biological relationship**
Juan José Builes^{1,2}, Andrea Manrique¹, Yecith Puerto¹, Diana Aguirre¹,
Leonor Gusmão¹, María-Luisa Bravo¹, ¹Laboratorio Genes Ltda, Medellín,
Colombia, ²Instituto de Biología, Universidad de Antioquia, Medellín,
Colombia, ³IPATIMUP Institute of Pathology and Molecular Immunology,
University of Porto, Porto, Portugal
- P 143 DNA recovery from a 44-year old umbilical cord**
María A. Peña¹, Lisandro Laborde¹, M. Mercedes Lojo¹, ¹Laboratorio de
Análisis Comparativo de ADN- Asesoría Pericial La Plata- Suprema Corte de
Justicia de la Provincia de Buenos Aires, La Plata, Buenos Aires, Argentina
- P 144 Evaluation of deleted region from Yp11.2 of two amelogenin negative related males**
Stefania Turrina¹, Giulia Filippini¹, Domenico De Leo¹, ¹Department of
Medicine and Public Health, Institute of Legal Medicine, University of
Verona, Verona, Italy
- P 145 Admissibility of Y-STRs at court: a case report from Australia**
Sascha Willuweit¹, Lutz Roewer¹, ¹Institute of Legal Medicine, Dept. of
Forensic Genetics, Berlin, Germany
- P 146 Kinship Matching for Mass Identification Projects**
Jon Davoren¹, Michael Cariola¹, Edwin Huffine¹, ¹Bode Technology, Lorton,
VA, United States
- P 147 Disaster Carbonized Victims Identification in State of Rondonia, Brazil**
Eloisa Aurora Auler Bittencourt¹, Daniela Koshikene², Delson Tavares Freitas
Junior², Luana Karen Holanda Cunha², Marcelo Santos Neves², Ana Claudia
Pacheco¹, Margaret Mitiko Inada Pereira¹, Ovídio Tucunduva Netto³,
¹Instituto de Criminalística, São Paulo - SP, Brazil, ²Instituto de
Criminalística, Manaus - AM, Brazil, ³Instituto de DNA, Rondônia - RO, Brazil
- P 148 Analysis of Complex Kinship Cases for Human Identification of Civil War Victims in Guatemala Using M-FISys Software**
Marco David García¹, Luis Eduardo Martínez¹, Mishel Stephenson¹, John
David Crews¹, ¹FAFG, Guatemala, Guatemala
- P 149 Genetic identification of fire deaths**
Anke Heinrich¹, Thorsten Schwark¹, Eva Simeoni¹, Nicole von Wurmb-
Schwark¹, ¹Institute of Legal Medicine - University of Kiel, Kiel, Germany
- P 150 Missing and Unidentified Persons Database**
Luiz Antonio F. da Silva¹, Wilkson Vilaça¹, Dalmo A. Azevedo¹, Geraldo
Majella¹, Iede F. Silva¹, Benisio F. Silva Filho¹, ¹Forensic DNA Laboratory,
Federal University of Alagoas, Alagoas, Brazil



- P 151 The search for missing casualties of the Korean War: Systematic approaches to DNA typing of old skeletal remains**
Hwan Young Lee^{1,2}, Na Young Kim¹, Myung Jin Park¹, Jeong Eun Sim¹, Woo Ick Yang¹, Kyoung-Jin Shin^{1,2}, ¹*Department of Forensic Medicine and Brain Korea 21 Project for Medical Science, Yonsei University College of Medicine, Seoul, Korea, Republic of*, ²*Human Identification Research Center, Yonsei University, Seoul, Korea, Republic of*
- P 152 Use of alternative samples in the restitution of missing persons descendants**
María Gabriela Fraga¹, Sergio Fernando Valente¹, Mariel Andrea Abovich¹, María Victoria Cólica¹, Florencia Liliana Gagliardi¹, Daniel Horacio Alcázar¹, Andrea Hilda Szocs¹, Hernán Eduardo Lavalle¹, María Belén Rodríguez Cardozo¹, ¹*Banco Nacional de Datos Genéticos, Buenos Aires, Argentina*
- P 153 Missing people: problems of identification of unknown bodies with the use of DNA database**
Sergey Borovko¹, ¹*State Medical Forensic Service of the Republic of Belarus, Minsk, Belarus*
- P 154 Mitochondrial DNA Analysis of human skeletal remains unearthed from northern area of Kanagawa Prefecture, Japan**
Masamune Kobayashi¹, Shigeki Nakamura¹, Chikako Murakami¹, Kazuho Maeda¹, Wataru Irie¹, Bunta Wada¹, Maiko Hayashi¹, Chizuko Sasaki¹, Masataka Furukawa¹, Katsuyoshi Kurihara¹, ¹*Kitasato University School of Medicine, Sagami-hara, Japan*
- P 155 A mini primer set covering the mtDNA hypervariable regions for the genetic typing of old skeletal remains**
Pierangela Grignani¹, Gabriella Peloso¹, Paolo Fattorini², Carlo Previderè¹, ¹*Dep. of Legal Medicine, Forensic and Pharmaco-Toxicological Sciences, University of Pavia, Pavia, Italy*, ²*Dep. of Sciences of Public Health, University of Trieste, Trieste, Italy*
- P 156 Assessment of the effectiveness of human remains DNA typing: analysis of 134 cases**
Andrea G Colussi¹, Mariana Viegas¹, Julieta Beltramo¹, María M Lojo¹, ¹*Laboratorio de Análisis Comparativo de ADN- Asesoría Pericial La Plata-Suprema Corte de Justicia de la Provincia de Buenos Aires, La Plata, Prov Buenos Aires, Argentina*
- P 157 Sampling of the Cranium for Mitochondrial DNA Analysis of Human Skeletal Remains**
Suni Edson¹, Alexander Christensen², Suzanne Barritt¹, Audrey Meehan², Mark Leney³, Louis Finelli¹, ¹*Armed Forces DNA Identification Laboratory, Rockville, MD, United States*, ²*Joint POW/MIA Accounting Command - Central Identification Laboratory, Hickam Air Force Base, HI, United States*, ³*Massachusetts Biologic Laboratories, University of Massachusetts Medical School, Jamaica Plain, MA, United States*
- P 158 First identification of human remains using mtDNA sequence analysis in Genetic Laboratory of Royal Gendarmerie in Morocco**
Hicham El Ossmani¹, Bouchaïb Gazzaz¹, Asmaa El Harrak¹, Souad Boutayeb¹, Hamid El Amri¹, ¹*Genetic Laboratory of Gendarmerie Royal, Rabat, Morocco*

P 159 The Romanovs -what did we learn?

Peter Gill^{1,2}, Michael D. Coble³, Walther Parson⁴, ¹University of Strathclyde, Glasgow, United Kingdom, ²University of Oslo, Oslo, Norway, ³Armed Forces DNA Identification Laboratory, Armed Forces Institute of Pathology,, Rockville, Maryland,, United States, ⁴Institute of Legal Medicine,, Innsbruck, Austria

P 160 Mitochondrial DNA analysis in severely degraded bone samples

Nur Haslindawaty Abd Rashid¹, Edinur Hisham Atan¹, Sundararajulu Panneerchelvam¹, Zafarina Zainuddin¹, ¹Forensic Science Programme, School of Health Sciences, Universiti Sains Malaysia, Kelantan, Malaysia

P 161 The identification of Prince Alexei Romanov and one of his sisters by forensic DNA testing

Michael Coble¹, Odile Loreille¹, Mark Wadhams¹, Suni Edson¹, Kerri Maynard¹, Carna Meyer¹, Harald Niederstätter², Cordula Berger², Burkhard Berger², Anthony Falsetti³, Peter Gill^{4,5}, Walther Parson², Louis Finelli¹, ¹Armed Forces DNA Identification Laboratory, Rockville, Maryland, United States, ²Institute of Legal Medicine, Innsbruck Medical University, Innsbruck, Austria, ³University of Florida, Gainesville, Florida, United States, ⁴Department of Pure and Applied Chemistry, University of Strathclyde, Glasgow, Scotland, United Kingdom, ⁵Institute of Forensic Medicine, University of Oslo, Oslo, Norway

P 162 Evaluation of different DNA-based methods in identification of soldiers missing in action since the World War II

Mikko Putkonen¹, Jukka Palo¹, Minttu Hedman¹, Antti Sajantila¹, ¹University of Helsinki, Helsinki, Finland

P 163 Population data for 12 STR loci in Northern European brown bear (*Ursus arctos*) and application of DNA-profiles for forensic case-work.

Hans Geir Eiken^{1,2}, Rune J. Andreassen³, Alexander Kopatz⁴, Siv Grete Bjervamoen¹, Ingvild Warttinen¹, Camilla Tobiassen¹, Per M. Knappskog⁵, Paul E. Aspholm¹, Martin Smith¹, Olga Makarova⁶, Pjotr Danilov⁷, Jouni Aspi⁴, ¹Bioforsk Svanhovd, Norwegian Institute for Agricultural and Environmental Research, Svanvik, Norway, ²The Gade Institute, University of Bergen, Bergen, Norway, ³Oslo University College, University of Oslo, Oslo, Norway, ⁴Department of Biology, University of Oulu, Oulu, Finland, ⁵Center for medical genetics and molecular medicine, University of Bergen, Bergen, Norway, ⁶The State Nature Reserve Pasvik, Rajakoski, Russian Federation, ⁷Institute of Biology, Karelian Research Centre RAS, Petrozavodsk, Russian Federation

P 164 The use of mitochondrial DNA genes to identify closely related avian species.

Sansook Boonseub¹, Shanan S. Tobe¹, Adrian M. T. Linacre¹, ¹University of Strathclyde, Glasgow, United Kingdom

P 165 Identifying NUMT contamination in mtDNA analyses

Ana Goios¹, Ana Carvalho^{1,2}, António Amorim^{1,2}, ¹IPATIMUP (Instituto de Patologia e Imunologia Molecular da Universidade do Porto), Porto, Portugal, ²Faculdade de Ciências da Universidade do Porto, Porto, Portugal



- P 166 Human STR polymorphisms investigated in chimpanzees**
Barbara Glock¹, Elisabeth Schwartz-Jungl¹, Eva-Maria Dauber¹, Wolfgang R. Mayr¹, ¹Medical University of Vienna, Division of Blood Group Serology, Vienna, Austria
- P 167 Forensic Investigation of UK Cervus Elaphus species**
Eleni Socratous¹, Eleanor Graham¹, Guy Ruddy¹, ¹University of Leicester, Leicester, United Kingdom
- P 168 Canine DNA profiling in forensic casework - joining efforts for standardization**
Cordula Berger¹, Burkhard Berger¹, Andreas Hellmann², Uwe Schleenbecker², Udo Rohleder², Werner Hecht³, Walther Parson¹, ¹Institute of Legal Medicine, Innsbruck Medical University, Innsbruck, Austria, ²Federal Criminal Police Office, Wiesbaden, Germany, ³Justus-Liebig-University Giessen, Giessen, Germany
- P 169 Genetic typing of dogs' traces in biological samples**
Marina Dobosz¹, Paolo De Iulii², Cinzia Grasso¹, Fernando Panarese³, Alessio Coletti¹, Massimo Lancia¹, ¹University of Perugia, Perugia, Umbria, Italy, ²U.N.I.R.E. Lab, srl, Pomezia, Roma, Italy, ³University of Magna Graecia, Catanzaro, Calabria, Italy
- P 170 Belgian Dog mitochondrial DNA database for forensics**
Stijn Desmyter¹, Sylvie Comblez¹, ¹National Institute for Criminalistics and Criminology, Brussels, Belgium
- P 171 Genetic Diversity Analysis of 10 STR's loci used for Forensic Identification in Canine Hair Samples**
Luísa Ganço^{1,2}, Mónica Carvalho¹, Armando Serra¹, Filipa Balsa¹, Ana Margarida Bento¹, Maria João Anjos¹, A. Xufre³, Francisco Corte-Real^{4,5}, ¹Forensic Genetics Service, Centre Branch, National Institute of Legal Medicine, I.P., Coimbra, Portugal, ²Institute of Health Sciences Egas Moniz, Porto, Portugal, ³DNATech, Lisboa, Portugal, ⁴National Institute of Legal Medicine I.P., Coimbra, Portugal, ⁵Faculty of Medicine, University of Coimbra, Coimbra, Portugal
- P 172 Advances in the application of canine DNA analysis to serious crime investigation in the UK.**
Rob Ogden^{1,3}, Ross McEwing^{2,3}, ¹Gen-Probe Life Sciences, Livingston, Edinburgh, United Kingdom, ²TRACE Wildlife Forensics Network, Edinburgh, United Kingdom, ³Bangor University, Bangor, Gwynedd, United Kingdom
- P 173 Gene expression analysis as a tool for age estimation of blowfly pupae**
Richard Zehner¹, Petra Boehme¹, Jens Amendt¹, ¹Institute of Legal Medicine, Frankfurt, Germany
- P 174 The use of polymorphic DNA fragments (STRs/SNPs) to prevent counterfeiting.**
Ruben Simonetta³, Gary Miller¹, Angeles Irastorza², Carolina Simonetta², Julio Sabagh², Juan Carlos Jaime³, ¹PAR Advanced Technologies, Brooksville, FL, United States, ²Sistemas de Identificación Genética, Córdoba, Argentina, ³Centro Integral de Genética Aplicada, Córdoba, Argentina



- P 175 FishPopTrace - Developing SNP-based population genetic assignment methods to investigate illegal fishing**
Rob Ogden², Jann Th. Martinsohn¹, ¹European Commission Joint Research Centre, Ispra, Varese, Italy, ²TRACE Wildlife Forensics Network, Edinburgh, United Kingdom
- P 176 Application of molecular markers for detection of South American camelid illegal traffic.**
Florencia Di Rocco¹, Diego Posik², Verónica Ripolli², Silvina Díaz², Guillermo Giovambattista², Lidia Vidal Rioja¹, ¹Instituto Multidisciplinario de Biología Celular (IMBICE), La Plata, Buenos Aires, Argentina, ²Instituto de Genética Veterinaria (IGEVET), La Plata, Buenos Aires, Argentina
- P 177 Microbial forensics: do *Aspergillus fumigatus* strains present local or regional differentiation?**
Ricardo Araujo^{1,2}, Antonio Amorim^{1,3}, Leonor Gusmão¹, ¹IPATIMUP, Institute of Pathology and Molecular Immunology, University of Porto, Porto, Portugal, ²Dept. Microbiology, Faculty of Medicine, University of Porto, Porto, Portugal, ³Faculty of Sciences, University of Porto, Porto, Portugal
- P 178 Detection of Bacterial Variation by Next Generation SOLiD™ Sequencing for Microbial Forensics Investigations**
Bruce Budowle¹, Phillip Williamson¹, Craig Cummings², Melissa Barker², Jodi Ann Beaudry³, Rixun Fang², Manohar Furtado², Paul Keim³, ¹University of North Texas Health Science Center, Fort Worth, TX, United States, ²Applied Biosystems, Foster City, CA, United States, ³Northern Arizona University, Flagstaff, AZ, United States
- P 179 Simultaneous identification of multiple mammalian species from mixed forensic samples based on mtDNA control region length polymorphism**
Luca Fumagalli^{1,2}, Catherine Jan Cabrita¹, Vincent Castella¹, ¹Forensic Genetics Unit, University Center of Legal Medicine, Geneva and Lausanne, Switzerland, ²Ecology and Evolution Dpt., Laboratory for Conservation Biology, University of Lausanne, Lausanne, Switzerland
- P 180 Identifying Endangered Species from Degraded Mixtures at Sub Cellular Levels**
Shanan Tobe¹, Adrian Linacre¹, ¹Centre for Forensic Science, WestCHEM, Department of Pure and Applied Chemistry, University of Strathclyde, Glasgow, United Kingdom
- P 181 Cytochrome *b* or Cytochrome *c* Oxidase Subunit 1 for Mammalian Species Identification - An Answer to the Debate**
Shanan Tobe¹, Andrew Kitchener², Adrian Linacre¹, ¹Centre for Forensic Science, WestCHEM, Department of Pure and Applied Chemistry, University of Strathclyde, Glasgow, United Kingdom, ²National Museum of Scotland, Edinburgh, United Kingdom
- P 182 Identification of sample donor in dexamethasone controversy**
Cornelius Uboh^{1,2}, Jin-Wen Chen¹, Lawrence Soma¹, Xiaoqing Li¹, Fuyuan Guan¹, Youwen You¹, Ying Liu¹, ¹University of Pennsylvania, Kennett Square, PA, United States, ²West Chester University, West Chester, PA, United States



- P 183 Genus identification of toxic plant by DNA**
Shuji Matsuyama¹, Shinji Taniguchi¹, Katsuji Nishi², ¹Shiga Police, Ohtsu, Shiga, Japan, ²Shiga Univ., Ohtsu, Shiga, Japan
- P 184 Forensic DNA Analysis of Botanical Evidence**
Kurt McManus¹, David Rotherham¹, SallyAnn Harbison², ¹University of Auckland, Auckland, New Zealand, ²Institute of Environmental Science and Research Ltd, Auckland, New Zealand
- P 185 Tiger species identification based on molecular approach**
Thitika Kitpipit¹, Shanan Tobe¹, Adrian Linacre¹, ¹Centre of Forensic Science, Department of Pure and Applied Chemistry, University of Strathclyde, Glasgow, United Kingdom
- P 186 The Impact of Jumping Alignments on Clustering and Database Searching**
Bobi Den Hartog¹, John Elling¹, Bruce Budwole², ¹MitoTech, LLC, Santa Fe, NM, United States, ²University of North Texas, Ft. Worth, TX, United States
- P 187 Enhancing the Size, Sampling, and Quality of Global Forensic mtDNA Databases**
Michael Coble¹, Jessica Saunier¹, Melissa Scheible¹, Kimberly Sturk¹, Toni Diegoli¹, Rebecca Just¹, Thomas Parsons², Jodi Irwin¹, ¹Armed Forces DNA Identification Laboratory, Rockville, Maryland, United States, ²International Commission on Missing Persons, Sarajevo, Bosnia and Herzegovina
- P 188 Clustering for Forensic Mitotype Quality Analysis**
Bobi K Den Hartog¹, John W Elling¹, Deborah Polanskey², Constance L Fisher², ¹MitoTech, LLC, Santa Fe, NM, United States, ²FBI Laboratory, Quantico, VA, United States
- P 189 A cost-efficient fast and reliable two-stage strategy for the high-throughput identification of samples belonging to mtDNA haplogroup K and its subhaplogroups K1 and K2**
Harald Niederstätter¹, Christiane Bauer¹, Liane Fendt¹, Walther Parson¹, ¹Institute of Legal Medicine, Innsbruck Medical University, Innsbruck, Austria
- P 190 Mitochondrial DNA diversity in South Africa: Control and coding region data from the KhoiSan people**
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- P 191 A South East Asian mtDNA population report from Laos**
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- P 192 HVIII discrimination power to distinguish HVI and HVII common sequences**
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- P 193 Characterization of a Native American mtDNA haplogroup C lineage**
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- P 194 Haplotype diversity in human mitochondrial DNA control region in "black" and "white" individuals from the metropolitan area of São Paulo (Brazil).**
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- P 195 Mitochondrial DNA control region data from two population samples from West Africa and the Middle East.**
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- P 196 mtDNA SNP analysis in a Central Portuguese population**
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- P 197 Mitochondrial DNA control region database in Banco Nacional de Datos Genéticos-Argentina**
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- P 198 Preliminary results of mitochondrial DNA sequence variation in Spanish pyrenean populations.**
Ana Maria López-Parra¹, Eva Fernández¹, Carlos Baeza¹, Cristina Gamba¹, Mirian Tirado¹, Leonor Gusmão², Maria Soledad Mesa³, Eduardo Arroyo-Pardo¹, ¹Laboratorio de Genética Forense y Genética de Poblaciones Humanas, Dpto. de Toxicología y Legislación Sanitaria, Fac. de Medicina, Universidad Complutense de Madrid, Madrid, Spain, ²IPATIMUP, Instituto de Patologia e Imunologia da Universidade do Porto, Porto, Portugal, ³Unidad Docente de Antropología. Dpto. de Zoología y Antropología Física. Fac. de Biología, Universidad Complutense de Madrid, Madrid, Spain



P 199 Mitochondrial DNA sequence data of the Waorani population - an isolated indigenous group from North West Amazonia.

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P 200 Argentinean Mitochondrial DNA sequence database

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P 201 Common mitochondrial DNA haplogroups observed in an Argentinian population sample.

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P 202 Mitochondrial DNA Control Region sequence Analysis of Mataco-Guaicurú Speaking tribes from Argentina.

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P 203 Haplotype diversity in mitochondrial DNA hypervariable region I and II in Maracaibo population (Venezuela)

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P 204 Geographic substructure in the mitochondrial DNA distribution of U.S. "Hispanic" populations

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P 205 Variability of mitochondrial DNA HVIII segment in a human isolate from the Pas Valley (northern Spain)

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P 206 Segments HVI and HVII of mitochondrial DNA in a population from Santa Catarina (Brazil): predominance of European lineages

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P 207 Mitochondrial DNA control region in native population from Quebrada de Humahuaca (northwestern Argetina)

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P 208 The genetic composition of Argentina prior to the massive immigration era: insights from matrilineages of extant *criollos* in central-western Argentina

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