ABO blood grouping
Determination of ABO blood grouping from human oral squamous epithelium by the highly sensitive immunohistochimical staining method EnVision+ (Noda, H, Yokota, M, Tatsumi, S, and Sugiyama, S), March, 341

Abuse drugs
Drug-facilitated sexual assault involving gamma-hydroxybutyric acid (Stillwell, ME), Sept., 1133

Acidosis
Boiling point measurement of a small amount of brake fluid by thermocouple and its application (Mogami, K), Sept., 1008

Accident investigation

Accidental
Fatal accidental hanging from a lanyard key chain in a 10-year-old boy (Denton, JS), Nov., 1345

Acousis
Gunshot location through recorded sound: a preliminary report (Pregliasco, RG and Martinez, EN), Nov., 1309

Acute traumatic dissociation
Acute dissociative responses in law enforcement officers involved in critical shooting incidents: the clinical and forensic implications (Rivard, JM, Dietz, P, Martell, D, and Widawski, M), Sept., 1093

Adhesive

Adhesive gummed tape
Unusual suicidal smothering by means of multiple loops of adhesive gummed tape (Di Vella, G, Neri, M, and Belviso, M), May, 645

Adobe Photoshop
Digital imaging methods as an aid in dental identification of human remains (Bowers, CM and Johansen, RJ), March, 354

Photographic evidence protocol: the use of digital imaging methods to rectify angular distortion and create life size reproductions of bite mark evidence (Bowers, CM and Johansen, RJ), Jan., 179

Review of: digital analysis of bite mark evidence using Adobe Photoshop (Kenney, JF), May, 709

Adults
Application of Lamendin’s adult dental aging technique to a diverse skeletal sample (Prince, DA and Ubelaker, D), Jan., 107

African-American
Online Y-chromosomal short tandem repeat haplotype reference database (YHRD) for U.S. populations (Kayer, M, Brauer, S, Willuweit, S, Schädlch, H, Batzer, MA, Zawacki, J, Prinz, M, Roewer, L, and Stoneking, M), May, 513

Age-at-death
Mandibular ramus height as an indicator of human infant age (Norris, SP), Jan., 8

Aging of inks
Changes in composition of ballpoint pen inks on aging in darkness (Andrasko, J), March, 324

Air bags
Driver and front seat passenger fatalities associated with air bag deployment. Part 1: A Canadian study (Shkrum, MJ, McClafferty, KJ, Nowak, ES, and German, A), Sept., 1028

Driver and front seat passenger fatalities associated with air bag deployment. Part 2: A review of injury patterns and investigative issues (Shkrum, MJ, McClafferty, KJ, Nowak, ES, and German, A), Sept., 1035

Aircraft accidents
The crash of LOT flight 007: dental identification (Bramson, RB and Morlang, WM), Nov., 1323

Aircraft crash
Analysis of pilot-related equipment and archaeological strategy in the recovery of aircrew losses from the Vietnam War (Moore II, CE, Davis, BD, and Lennard, MD), Nov., 1210

Airway obstruction
Unexpected death due to infectious mononucleosis (Byard, RW), Jan., 202

Alcohol
Review of: the Robert F. Borkenstein International Symposium on Alcohol and Forensic Science—the Influence of Alcohol and Drugs on Transportation Safety (Caplan, YH), May, 706

Allele frequencies
Allele frequencies for six STR in a Chilean population (Cifuentes, L, Acuña, M, and Sepulveda, D), July, 904 Allele frequencies of D1S80 locus in the Bhatias, a primitive Indian tribal population from Patalkot, India (Biswas, R and Giroit, R), Nov., 1403

Distribution of allele frequencies for two short tandem repeats (HUMTHO1 and F13A01) among five Indian population groups (Ghosh, A and Seshadri, M), March, 415

Allele frequency
Allele frequency distribution at five Y-chromosomal short tandem repeat loci among five distinct ethnic groups of India (Das, B, Chauhan, PS, and Seshadri, M), March, 410

Allele microvariants

Air elements
A more sensitive method for the quantitation of genomic DNA by Alu amplification (Sifis, ME, Both, K, and Burgoyne, LA), May, 589

Alveolar process/radiography
Nutrient canals of the alveolar process as an anatomic feature for dental identifications (Fielding, CC), March, 381
AmpF(STR) TWGDAM validation of AMPF(STR\textsuperscript{TM}) PCR amplification kits for forensic DNA casework (Holt, CL, Buoncristiani, M, Wallin, JM, Nguyen, T, Lazaruk, KD, and Walsh, PS), Jan., 66

Amphetamines Ecstasy (MDMA) deaths in New York City: a case series and review of the literature (Gill, JR, Hayes, JA, seSouza, IS, Marker, E, and Stajic, M), Jan., 121

Analytical separations Review of: handbook of analytical separations, volume 2, forensic science (Isenschmidt, DS), May, 710

Animal bone Identifying chop marks on cremated bone: a preliminary study (de Gruchy, S and Rogers, TL), Sept., 933

Ankle Using pre- and post-surgical foot and ankle radiographs for identification (Rich, J, Tatarek, NE, Powers, RH, Brogdon, BG, Lewis, BJ, and Dean, DE), Nov., 1319

Anthropology Facial approximation: globe projection guideline falsified by exophthalmommetry literature (Stephen, CN), July, 730
Fluvial transport of human remains in the Lower Mississippi River (Bassett, HE and Manheim, MH), July, 719

Anthropophagia The case of Jeffrey Dahmer: sexual serial homicide from a neuropsychiatric developmental perspective (Silva, JA, Ferrari, MM, and Leong, GB), Nov., 1347

Antidepressant Disposition of citalopram in biological specimens from postmortem cases (Jenkins, AJ and Gubanich, K), Jan., 159

ApoB 3' VNTR Allele frequency distribution of two minisatellite loci (D19S20 and ApoB 3' VNTR) among five distinct population groups of India (Das, B, Chauhan, PS, and Seshadri, M), Jan., 229

Archaeological perspectives Review of: advances in forensic taphonomy: method, theory, and archaeological perspectives (Rowe, WF), Nov., 1407

Argentina STR data for the PowerPlex\textsuperscript{R} 16 loci in Buenos Aires population (Argentina) (Ganigiana, DA, Garofalo, MG, Juvenal, GJ, Budowle, B, Lorente, JA, and Padula, RA), March, 418

Arson Forensic analysis of ignitable liquids in fire debris by comprehensive two-dimensional gas chromatography (Frysginger, GS and Gaines, RB), May, 471

Arson analysis Detection of petrol (gasoline) in fire debris by gas chromatography/mass spectrometry/mass spectrometry (GC/MS/MS) (d-eVos, BJ, Froneman, M, Rohwer, E, and Sutherland, DA), July, 736

Arthropods Review of: forensic entomology: the utility of arthropods in legal investigation (Kim, KC), Sept., 1181

Artwork examination The identification of stolen paintings using comparison of various marks (Shor, Y, Novoselsky, Y, Klein, A, Lurie, DJ, Levi, JA, Vinokurov, A, and Levin, N), May, 635

Asphyxia Review of asphyxia: the physiopathology (Reay, DT), Sept., 1180

Assault Characteristic of assaultive patients with schizophrenia versus personality disorder: six year analysis of the assaulted staff action program (ASAP) (Flamery Jr., RB, Rachlin, S, and Walker, AP), May, 558

Attenuated total reflectance Identification of tiny and thin smears of automotive paint following a traffic accident (Giang, YS, Wang, SM, Cho, LL, Yang, CK, and Lu, CC), May, 625

Back scattered electron (BSE) signal Handguns and ammunitions indicators extracted from the GSR analysis (Lebiedzik, J and Johnson, DL), May, 483

Bacteria Forensic comparison of soils by bacterial community NDA profiling (Horswell, J, Cordiner, SJ, Maae, EW, Martin, TM, Sutherland, BW, Speir, TW, Nagales, B, and Osborn, AM), March, 350

Ballpoint inks Ballpoint pen inks: characterization by positive and negative ion-electrospray ionization mass spectrometry for the forensic examination of writing inks (Ng, I, K, Lafontaine, P, and Brazeau, L), Nov., 1238


Bartonella henselae Fatal meningitis and encephalitis due to Bartonella henselae bacteria (Gerber, JE, Johnson, JE, Scott, MA, and Madhusudhan, KT), May, 640

Bayesian method Review of: forensic interpretation of glass evidence (Bottrell, MC and Webb, JB), July, 926

Bayesian networks Interpreting small quantities of DNA: the hierarchy of propositions and the use of Bayesian networks (Evett, IW, Gill, PD, Jackson, G, Whitaker, J, and Champod, C), May, 520

Bhargava Allele frequencies of microsatellite repeat loci in Bhargavas, Chaturvedis, and Brahmins of North India (Agrawal, S, Müller, B, Bharadwaj, U, Bhattacharjee, S, and Khan, F), May, 678

Distribution of allele frequencies of six STR markers in North Indians (Agrawal, S, Müller, B, Bharadwaj, U, Bhattacharjee, S, and Khan, F), May, 682

Evaluation of six short tandem repeat loci in forensics: North Indian populations (Agrawal, S, Müller, B, Bharadwaj, U, Bhattacharjee, S, and Khan, F), May, 686

Bharia HLA-DQA1 and polymarker loci allele frequencies in the Bharias, a primitive Indian tribal population from Patakot, India (Biswas, R and Giroli, R), July, 916


Bite mark analysis Review of: digital analysis of bite mark evidence using Adobe\textsuperscript{R} Photoshop\textsuperscript{R} (Kenney, JP), May, 709

Bitemarks Forensic implications of biting behavior: a conceptually underdeveloped area of investigation (Webb, DA, Sweet, D, Hinman, DL, and Pretty, IA), Jan., 103

Blood Extension of the color suite available for chemical enhancement of fingerprints in blood (Caldwell, JP and Kim, ND), March, 332

Blood vessel The spectrum of intramyocardial small vessel disease associated with sudden death (Veinot, JP, Johnston, B, Acharya, V, and Healey, J), March, 384
BM1225
Allele frequencies in three STR loci RT24, RT09, and BM1225 in northern New England white-tailed deer (Smith, PF; Den Danto, D, Smith, KT, Palman, D, and Koenfield, I), May, 673

Body packer syndrome
Ten years of “body packers” in New York City: 50 deaths (Gill, JR and Graham, SM), July, 843

Body packers
A fatal case of cocaine poisoning in a body packer (Furnari, C, Ottaviano, V, Sacchetri, G, and Mancini, M), Jan., 208

Bodybuilders
Hair analysis of seven bodybuilders for anabolic steroids, ephedrine, and clenbuterol (Dunestre-Toulet, V, Cirimele, V, Ludes, B, Gronsb, S, and Kintz, P), Jan., 211

Bone
Age estimation by measuring the racemization of aspartic acid from total amino acid content of several types of bone and rib cartilage: a preliminary account (Ohtani, S, Matsushima, Y, Kobayashi, Y, and Yamamoto, T), Jan., 32

Bone and tooth analysis
The use of SEM/EDS analysis to distinguish dental and osseous tissue from other materials (Ubelaker, DH, Ward, DC, Bazz, VS, and Stewart, J), Sept., 940

Bone genotyping
Skeletal remains presumed submerged in water for three years identified using PCR-STR analysis (Crainic, K, Paraire, F, Leterreux, M, Durigon, M, and de Mazancour, P), Sept., 1025

Bone indicators
Variability of the pattern of aging on the human skeleton: evidence from bone indicators and implicatons on age at death estimation (Schmitt, A, Murail, P, Cunha, E, and Rouge, D), Nov., 1203

Book review
Author’s response (Houck, MM), May, 699

Book reviews

Brahmin
Genetic study of 15 important STR loci among four major ethnic groups of Bihar, India (Ashma, R and Kashyap, VK), Sept., 1139

Brahmins
Allele frequencies of microsatellite repeat loci in Bhargavas, Chaturvedis, and Brahmins of North India (Agrawal, S, Muller, B, Bharadwaj, U, Bhatnagar, S, and Khan, F), May, 678
Distribution of allele frequencies of six STR markers in North Indians (Agrawal, S, Muller, B, Bharadwaj, U, Bhatnagar, S, and Khan, F), May, 682
Evaluation of six short tandem repeat loci in forensics: North Indian populations (Agrawal, S, Muller, B, Bharadwaj, U, Bhatnagar, S, and Khan, F), May, 686

Brakes
Boiling point measurement of a small amount of brake fluid by thermocouple and its application (Mogami, K), Sept., 1008

Bulb filaments
An unusual oxidation type on bulb filament after a car crash (Baudoin, P, Lavabre, R, and Vayne, F), March, 377

Bulbous fibers
Non-bulbous fibers in a single case of amphetamine overdose (Braun, T), April, 1097

Calcine
Visualization of postmortem chondrocyte damage by vital staining and confocal laser scanning 3D microscopy (Laszczkowski, GE, Aigner, T, Gamedinger, U, Weiler, G, and Bratzke, H), May, 663

Cannabis
Criminal responsibility and cannabis use: psychiatric review and proposed guidelines (Niveau, G), May, 451

Capillary electrophoresis
Review of: clinical and forensic applications of capillary electrophoresis, first edition (Tagliaro, F and Bortolotti, F), May, 713

Carcid death
Penetration of a cat's body by a razor blade (Hoffman, M), May, 279

Capital punishment
Medical aspects of capital punishment executions (Khan, A and Leventhal, RM), July, 847

Carcid death
Penetration of a cat's body by a razor blade (Hoffman, M), May, 279

Capricorns
Detection of pepper spray residues on fabrics using liquid chromatography-mass spectrometry (Reilly, CA, Crouch, DJ, Yost, GS, and Andryenak, JM), Jan., 37

Car accident
Bizarre impalement fatalities—where is the implement? (Karger, B, Teige, K, and Bajanowski, T), March, 389
Cervical fracture, decapitation, and vehicle-assisted suicide (Byard, RW and Gilbert, JD), March, 392

Carbon monoxide
A comparison of carboxyhemoglobin saturation values in postmortem heart blood and peripheral blood specimens (Levine, B, Moore, KA, Titus, JM, and Fowler, D), Nov., 1388
Failure to detect elevated levels of carboxyhemoglobin in infants dying from SIDS (Meny, RG, Vreman, HJ, Stevenson, DK, Hauck, FR, Donoghue, ER, Smialek, JE, Fowler, DR, and Zielke, HR), May, 660

Carboxyhemoglobin
Failure to detect elevated levels of carboxyhemoglobin in infants dying from SIDS (Meny, RG, Vreman, HJ, Stevenson, DK, Hauck, FR, Donoghue, ER, Smialek, JE, Fowler, DR, and Zielke, HR), May, 660

Cat scratch
Fatal meningitis and encephalitis due to Bartonella henselae bacteria (Gerber, JE, Johnson, JE, Scott, MA, and Madhusudhan, KT), May, 640

Catalytic rates
Author’s response (Gnezda, M and Salamone, SJ), March, 428
Commentary on: Dou C, et al. Comparison of rates of hydrolysis of Lorazepam-Glucoronide, Oxazepam-Glucuronide and Temazepam-Glucuronide catalyzed by Ecoli β-Glucuronidase (O’Neal, CL and Poklis, A), March, 427

Cerebral palsy
Spontaneous fractures in the differential diagnosis of fractures in children (Torwait, CR, Balachandra, AT, Youngson, C, and de Nanassay, J), Nov., 1340

Cesarine section homicide
Newborn kidnapping by Cesarean section (Burgess, AW, Baker, T, Nahiry, C, and Rabun, JB), July, 827

Chaturvedi
Allele frequencies of microsatellite repeat loci in Bhargavas, Chaturvedis, and Brahmins of North India (Agrawal, S, Muller, B, Bharadwaj, U, Bhatnagar, S, and Khan, F), May, 678
Distribution of allele frequencies of six STR markers in North Indians (Agrawal, S, Muller, B, Bharadwaj, U, Bhatnagar, S, and Khan, F), May, 682
Evaluation of six short tandem repeat loci in forensics: North Indian populations (Agrawal, S, Muller, B, Bharadwaj, U, Bhatnagar, S, and Khan, F), May, 686

Chemical characterization
Chemical composition of fingerprints for gender determination (Asano, KG, Bayne, CK, Horsman, KM, and Buchanan, MV), July, 805

Chemical profiling
Optimum methamphetamine profiling with sample preparation by solid-phase microextraction (Koester, CJ, Andresen, BD, and Grant, PM), Sept., 1002

Chest X-ray
Validation of chest X-ray comparisons for unknown decedent identification (Kueh,
Clothes washing and drying
Chemical analysis of vegetable oils following spontaneous ignition (Coulombe, R), Jan., 195

Clubfoot
Identification of decomposed human remains from radiographic comparisons of an unusual foot deformity (Sudimack, JR, Lewis, BJ, Rich, J, Dean, DE, and Fardal, PM), Jan., 218

Cocaine
A fatal case of cocaine poisoning in a body packer (Furnari, C, Ottaviano, V, Sacchetti, G, and Mancini, M), Jan., 208

Codeine
Concentrations of unconjugated morphine, codeine and 6-acetylmorphine in urine specimens from suspected drugged drivers (Ceder, G and Jones, AW), March, 366

Colfier
Western Australian sub-population data for the thirteen AMPF/STR® Profiler Plus™ and COFiler™ STR Loci (Bagdonavicius, A, Turbett, GR, Buckleton, JS, and Walsh, SJ), Sept., 1149

Colchicine poisoning
Colchicine poisoning resulting from accidental ingestion of meadow saffron (Colchicum Autumnale) (Sannohe, S, and Nozuka, T), Nov., 1391

Colchicine autolun
Colchicine poisoning resulting from accidental ingestion of meadow saffron (Colchicum Autumnale) (Sannohe, S, Makino, Y, Kita, T, Kuroda, N, and Shinozuka, T), Nov., 1391

Collision-induced dissociation (CID)
Detection of petrol (gasoline) in fire debris by gas chromatography/mass spectrometry/mass spectrometry (GC/MS/MS) (de Vos, BJ, Froneman, M, Rohwer, E, and Sutherland, DAJ), July, 736

Colombia
Allele frequencies for the AmpF/STR profiler loci in a Colombian population (department of Boyaca) (Vargas, CI, Castillo, A, Gil, AM, Pico, AL, and Garcia, O), March, 406

Comparison
Unusual contact marks: connecting the hubcap to the wheel of the car (Novoselsky, Y, Tsach, T, Klein, A, Volkov, N, Shor, Y, and Vinokurov, A), May, 630

Compositional analysis
Associating gunpowder and residues from commercial ammunition using compositional analysis (MacCrehan, WA, Reardon, MR, and Duewer, DL), March, 260

Compound 1080
The identification of sodium fluoroacetate (Compound 1080) employing NMR spectroscopy (Kirms, MA and Kirms, LM), May, 573

Compressional asphyxia
Death by compaction in a garbage truck (Staats, PN, Jumbelic, MF, and Dignan, CR), Sept., 1065

Computer-aided dental identification
WinID2 versus CAPM14: two computer-assisted dental identification systems (Lewis, C), May, 536

Computerized tomography
Identification of human skeletal remains by comparison of bony details of the cranium using computerized tomographic (CT) scans (Smith, DR, Limbird, KG, and Hoffman, JM), Sept., 937

Computers
Digital imaging methods as an aid in dental identification of human remains (Bowers, CM and Johansen, RJ), March, 354

Photographic evidence protocol: the use of digital imaging methods to rectify angular distortion and create life size reproductions of bite mark evidence (Bowers, CM and Johansen, RJ), Jan., 179

Condoms

Confocal laser 3D microscopy
Visualization of postmortem chondrocyte damage by vital staining and confocal laser scanning 3D microscopy (Laszczkowski, GE, Aigner, T, Gamberdinger, U, Weiler, G, and Bratzke, H), May, 663

Contamination
Levels of trace and major elements in illicit heroin (Bora, T, Merdivan, M, and Hamamci, C), Sept., 959

Contents based information retrieval
Content based information retrieval in forensic image database (Geradts, Z and BijlhoJ, J), March, 285

Cranial injury
Author’s response (Telmon, N and Allery, JP), May, 703


Craniofacial identification
Review of: Craniofacial identification in forensic medicine (Fenton, TW), Jan., 235

Cremation
Identifying chop marks on cremated bone: a preliminary study (de Gruchy, S and Rogers, TL), Sept., 933
Post-cremation taphonomy and artifact preservation (Warren, MW and Schultz, JJ), May, 656

Cremation artifacts
Post-cremation taphonomy and artifact preservation (Warren, MW and Schultz, JJ), May, 656

Criminal responsibility
Criminal responsibility and cannabis use: psychiatric review and proposed guidelines (Niveau, G), May, 451

Criminalistics
A method for the longitudinal sectioning of single hair samples (Kempson, IM, Skinner, WM, and Kirkbride, KP), July, 899

An unusual oxidation type on bulb filament after a car crash dive (Baudoin, P, Lavabre, R, and Vayne, F), March, 377

Author’s response (Houck, MM), May, 699

Boiling point measurement of a small amount of brake fluid by thermocouple and pressure measurements: the effects of match criteria on forensic significance for older unsolved criminal cases (Patchett, KL, Cox, KJ, and Burns, DM), July, 786

The effect of 1,2-indanedione, a latent fingerprint reagent on subsequent DNA profiling (Azoury, M, Zamir, A, Oz, C, and Wiesner, S), May, 586

CSF1PO locus

CT scan
Identification of human skeletal remains by comparison of boney details of the cranium using computerized tomographic (CT) scans (Smith, DR, Limbird, KG, and Hoffman, JM), Sept., 937

3D forensic imaging
Development of a 3D-based automated firearms evidence comparison system (Bachrach, B), Nov., 1253

D10S2325
Genetic variation at five STR loci (D10S2325, D13S325, D20S470, D18S51, and D19S253) in Korean population (Shin, SH, Hwang, JH, Park, HS, Kim, NK, and Chung, KW), Sept., 1161

D13S317
Genotype profile for thirteen tetranucleotide repeat loci and two pentanucleotide repeat loci in four endogamous Tamil population groups of India (Laximi, S, Trevedi, R, and Kashyap, VK), Sept., 1168

The effect of 1,2-indanedione, a latent fingerprint reagent on subsequent DNA profiling (Azoury, M, Zamir, A, Oz, C, and Wiesner, S), May, 586

D16S39
Presentation of a three-banded allele pattern-analysis and interpretation (Azmir, A, Shipizen, M, Oz, C, Motto, U, Meiner, V, and Gafny, R), July, 824

D16S389
The effect of 1,2-indanedione, a latent fingerprint reagent on subsequent DNA profiling (Azoury, M, Zamir, A, Oz, C, and Wiesner, S), May, 586

D18S51
Allele frequency data for Powerplex 16 loci in four major populations of Orissa, India (Sahoo, S and Kashyap, VK), July, 912

Concordance study on 15 STR loci in three major populations of Himalayan State Sikkim (Kashyap, VK, Guha, S, and Trivedi, R), Sept., 1163

Genotype profile for thirteen tetranucleotide repeat loci and two pentanucleotide repeat loci in four endogamous Tamil population groups of India (Laximi, S, Trevedi, R, and Kashyap, VK), Sept., 1168

D19S20
Allele frequency distribution of two minisatellite loci (D19S20 and ApoB 3’ VNTR) among five distinct population groups of India (Das, B, Chauhan, PS, and Seshadri, M), Jan., 229

D15S80
Allele frequencies of D15S80 locus in the Bharias, a primitive Indian tribal population from Patalkot, India (Biswas, R and Giriroti, R), Nov., 1403

D15S470
Genetic variation at five STR loci (D10S2325, D13S325, D20S470, D18S51, and D19S253) in Korean population (Shin, SH, Hwang, JH, Park, HS, Kim, NK, and Chung, KW), Sept., 1161

D20S161

D20S470
Genetic variation at five STR loci (D10S2325, D13S325, D20S470, D18S51, and D19S253) in Korean population (Shin, SH, Hwang, JH, Park, HS, Kim, NK, and Chung, KW), Sept., 1161

D21S11
Allele frequency data for Powerplex 16 loci in four major populations of Orissa, India (Sahoo, S and Kashyap, VK), July, 912

Concordance study on 15 STR loci in three major population of Himalayan State Sikkim (Kashyap, VK, Guha, S, and Trivedi, R), Sept., 1163

Genotype profile for thirteen tetranucleotide repeat loci and two pentanucleotide repeat loci in four endogamous Tamil population groups of India (Laximi, S, Trevedi, R, and Kashyap, VK), Sept., 1168

D3S1358
Allele frequency data for Powerplex 16 loci in four major populations of Orissa, India (Sahoo, S and Kashyap, VK), July, 912

Concordance study on 15 STR loci in three major populations of Himalayan State Sikkim (Kashyap, VK, Guha, S, and Trivedi, R), Sept., 1163

Genotype profile for thirteen tetranucleotide repeat loci and two pentanucleotide repeat loci in four endogamous Tamil population groups of India (Laximi, S, Trevedi, R, and Kashyap, VK), Sept., 1168
Dental identification
The crash of LOT flight 007: dental identification (Brannon, RB and Morlang, WM). Nov., 1323

Dental restorations
WinDi2 versus CAPM14: two computer-assisted dental identification systems (Lewis, C), May, 536

Detection
Advanced solvent-free application of ninhydrin for detection of latent fingerprints on thermal paper and other surfaces (Schwartz, I. and Ferriechi, I), Nov., 1274

Diacyethylmorphine
GC/MS determination of pyrolysis products from diacyethylmorphine and adulterants of street heroin samples (Brenneisen, R and Hasler, F), July, 885

Diaphysial lengths
Validation of a radiographic method to establish new fetal growth standards: radiological correlation (Pierceuchi-Marti, MD, Adalian, P, Bourriere-Najean, B, Gouvenert, J, Maceel, M, Dutour, G and Leossetti, G), March, 328

Digital
Digital imaging methods as an aid in dental identification of human remains (Bowers, CM and Johansen, RJ), March, 354
Photographic evidence protocol: the use of digital imaging methods to rectify angular distortion and create life size reproductions of bite mark evidence (Bowers, CM and Johansen, RJ), Jan., 179

Digital autopsy
Charred body: virtual autopsy with multislice computed tomography and magnetic resonance imaging (Thali, MJ, Yen, K, Plattner, T, Schwestier, W, Vock, P, Ozdoba, C and Dimhoffer, R), Nov., 1326

Digital imaging
Photographic evidence protocol: the use of digital imaging methods to rectify angular distortion and create life size reproductions of bite mark evidence (Bowers, CM and Johansen, RJ), Jan., 179

Diphenylamine
A qualitative comparison of smokeless powder measurements (MacCrehan, WA and Reardon, MR), Sept., 996
Associating gunpowder and residues from commercial ammunition using compositional analysis (MacCrehan, WA, Reardon, MR, and Duewer, DL), March, 260

DIPS
Melting curve SNP (McSNP) genotyping: a useful approach for diallelic genotyping in forensic science (Ye, J, Parra, EJ, Sosnoski, DM, Hiester, K, Underhill, PA, and Shriver, MD), May, 593

DNA
Distribution of allele frequencies of six STR markers in North Indians (Agrawal, S, Muller, B, Bhuradwaj, U, Bhattacharjee, S, and Khan, F), May, 682
Evaluation of six short tandem repeat loci in forensics: North Indian populations (Agrawal, S, Muller, B, Bhuradwaj, U, Bhattacharjee, S, and Khan, F), May, 682
Forensic comparison of soils by bacterial community NDA profiling (Horswell, J, Cordner, SJ, Maas, EW, Martin, TM, Sunderland, BW, Speir, TW, Nogales, B, and Osborn, AM), March, 350
Review of: forensic DNA typing (Sensbaugh, GF), May, 705

DNA extraction
Extraction of human nuclear DNA from feces samples using the QIAamp DNA stool mini kit (Vandenbog, N and van Oorschot, RAH), Sept., 993

DNA mixtures
Author’s response (Wisecarver, JI, and Rubocki, RJ), Sept., 1174
Commentary on: Rubocki RJ, McCue BJ, Duffy KJ, Shepard KL, Shepherd SJ, Wisecarver JI. Natural DNA mixtures generated in fraternal twins in utero, J Forensic Sci 2001;46(1):120–125 (Segal, NL.), Sept., 1174

DNA profiling
Genotype profile for thirteen tetranucleotide repeat loci and two pentanucleotide repeat loci in four endogamous Tamil population groups of India (Laximi, S, Trevedi, R, and Kashyap, VK), Sept., 1168

Decompomposed remains
Identification of decomposed human remains from radiographic comparisons of an unusual foot deformity (Sudimack, JA, Lord, WD, Collins-Morton, MB, Wilson, MR, and Goff, ML), Nov., 1337
Time of submergence using aquatic invertebrate succession and compositional changes (Hobischak, NR and Anderson, GS), Jan., 142

Decomposition
Mitochondrial DNA sequencing of beetle larvae (Nidulatidae: Omontia) recovered from human bone (DiZinno, JA, Lord, WD, Collins-Morton, MB, Wilson, MR, and Goff, ML), Nov., 1337
Time of submergence using aquatic invertebrate succession and compositional changes (Hobischak, NR and Anderson, GS), Jan., 142
Tonsey, CS, Zachetti, JM, and Sprecher, CJ, July, 773
Western Australian sub-population data for the thirteen AMF*STR Profile Plus™ and COFiler™ STR Loci (Bagdonavicius, A, Turbett, GR, Buckleton, JS, and Walsh, SJ), Sept., 1149

Document analysis
Individuality of handwriting (Srihari, SN, Cha, SH, Arora, H, and Lee, S), July, 856

Document examination
Comparison of the elemental composition of office document paper: evidence in a homicide case (Spence, LD, Francis, RB, and Tinggi, U), May, 648
Review of: questioned documents: a lawyer’s handbook (McKasson, S), May, 704

Document paper
Comparison of the elemental composition of office document paper: evidence in a homicide case (Spence, LD, Francis, RB, and Tinggi, U), May, 648

Domestic terrorism

Doping
Hair analysis of seven bodybuilders for anabolic steroids, ephedrine, and clenbuterol (Dumestre-Toulet, MA, Covell, CN, Palirea, RE, Krebs, JA, and Washington, DO), Nov., 1360
Double parricide
Double parricide: forensic analysis and psychological implications (Weisman, AM, Ehrenclou, MC, and Sharma, KK), March, 313

Driving
The use of oral fluid and sweat wipes for the detection of drugs of abuse in drivers (Samyn, N, De Beock, G, and Verstraeve, AG), Nov., 1380

Driving impairment
Prevalence of drug use in commercial tractor-trailer drivers (Couper, FJ, Pemberton, M, Jarvis, A, Hughes, M, and Logan, BK), May, 562

Drowning
Bodies found in the waterways of New York City (Lucas, J, Goldfeder, LB, and Gill, JR), Jan., 137
Skeletal remains presumed submerged in water for three years identified using PCR-STR analysis (Crainic, K, Paraie, F, Leter-

DYS385
DYS385, DYS389, (I and II), DYS391, DYS392, DYS393 haplotypes in a population sample from Catalonia (North-East Spain) (Gene, M, Pique, E, Borrego, N, Ortega, M, Xifré, A, Hugue, E, Moreno, P, and Corbella, J), Sept., 1156

DYS389 (I and II)
DYS385, DYS389, (I and II), DYS390, DYS391, DYS392, DYS393 haplotypes in a population sample from Catalonia (North-East Spain) (Gene, M, Pique, E, Borrego, N, Ortega, M, Xifré, A, Hugue, E, Moreno, P, and Corbella, J), Sept., 1156

DYS389I
Frequency data of nine Y-chromosomal STR loci in a sample from Central Spain (López-Parra, AM, Alvarez, S, Mesa, MS, Bandrés, F, and Arroyo-Pardo, E), May, 694
Population database of Y-chromosomal haplotypes at five microsatellites among two distinct ethnic groups of Western India (Das, B, Chauhan, PS, and Seshadri, M), May, 692
Population database of Y-chromosomal haplotypes at five microsatellites among two distinct ethnic groups of Western India (Das, B, Chauhan, PS, and Seshadri, M), May, 692
Three Y-chromosome STR frequencies in a population from Equatorial Guinea (central Africa) (Alvaremez, S, López-Parra, AM, Mesa, MA, Jimenez, V, Herrera, SJ, Bandrés, F, Arraztizcoa, A, Rubio, JM, and Arroyo-Pardo, E), Jan., 224

DYS390
DYS385, DYS389, (I and II), DYS391, DYS392, DYS393 haplotypes in a population sample from Catalonia (North-East Spain) (Gene, M, Pique, E, Borrego, N, Ortega, M, Xifré, A, Hugue, E, Moreno, P, and Corbella, J), Sept., 1156
Frequency data of nine Y-chromosomal STR loci in a sample from Central Spain (López-Parra, AM, Alvarez, S, Mesa, MS, Bandrés, F, and Arroyo-Pardo, E), May, 694

DYS391
Frequency data of nine Y-chromosomal STR loci in a sample from Central Spain (López-Parra, AM, Alvarez, S, Mesa, MS, Bandrés, F, and Arroyo-Pardo, E), May, 694
Population database of Y-chromosomal haplotypes at five microsatellites among two distinct ethnic groups of Western India (Das, B, Chauhan, PS, and Seshadri, M), May, 692

DYS393 Frequency data of nine Y-chromosomal STR loci in a sample from Central Spain (López-Parra, AM, Alvarez, S, Mesa, MS, Bandrés, F, and Arroyo-Pardo, E), May, 694

Population database of Y-chromosomal haplotypes at five microsatellites among two distinct ethnic groups of Western India (Das, B, Chauhan, PS, and Seshadri, M), May, 692

DYS434 Frequency data of nine Y-chromosomal STR loci in a sample from Central Spain (López-Parra, AM, Alvarez, S, Mesa, MS, Bandrés, F, and Arroyo-Pardo, E), May, 694

DYS437 Frequency data of nine Y-chromosomal STR loci in a sample from Central Spain (López-Parra, AM, Alvarez, S, Mesa, MS, Bandrés, F, and Arroyo-Pardo, E), May, 694

DYS438 Genetic variation at three DYS-STR loci and amelogenin between the Australian Caucasians and three Asian ethnic groups (Chang, YM, Both, K, and Burgoyne, LA), July, 918

DYS439 Frequency data of nine Y-chromosomal STR loci in a sample from Central Spain (López-Parra, AM, Alvarez, S, Mesa, MS, Bandrés, F, and Arroyo-Pardo, E), May, 694

Electrocution Medical aspects of capital punishment executions (Khan, A and Leventhal, RM), July, 847

Electrospray ionization Ballpoint pen inks: characterization by positive and negative ion-electrospray ionization mass spectrometry for forensic examination of writing inks (Ng, I.K, Lafontaine, P, and Brazeau, L), Nov., 1238

Electrospray ionization mass spectrometry Determination of luminescent europium β-diketonates used as tracers for shadowing pursuits (Kurata, S, Hirano, H, and Nagai, M), July, 797

Element Levels of trace and major elements in illicit heroin (Bora, T, Merdivan, M, and Hamamci, C), Sept., 959

Elemental analysis Compositional variation in bullet lead manufacturer (Koons, RD and Grant, DM), Sept., 950

Interpretation of glass composition measurements: the effects of match criteria on discrimination capability (Koons, RD and Buscaglia, J), May, 505

Elemental composition Comparison of the elemental composition of office document paper: evidence in a homicide case (Spence, LD, Francis, RB, and Tinggi, U), May, 648

Elementary profile Comparison of the elemental composition of office document paper: evidence in a homicide case (Spence, LD, Francis, RB, and Tinggi, U), May, 648

Encephalitis Fatal meningitis and encephalitis due to Bartonella henselae bacteria (Gerber, JE, Johnson, JE, Scott, MA, and Madhusudhan, KT), May, 640

Engineering An approach to individual video camera identification (Kurosawa, K, Kuroki, K, and Saitoh, N), Jan., 97

Entomology Review of: forensic entomology: The utility of arthropods in legal investigation (Kim, JK), KC, Sept., 1181

EnVision+ Determination of ABO blood grouping from human oral squamous epithelium by the highly sensitive immunohistochemical staining method EnVision+ (Noda, H, Yokota, M, Tsutsumi, S, and Sugiyama, S), March, 341

Ephedrine Enantiomeric separation of methamphetamine and related analogs by capillary zone electrophoresis: intelligence study in routine methamphetamine seizures (Cheng, WC, Lee, WM, Chan, MF, Tsui, P, and Diao, KL), Nov., 1248

Equivocal deaths Psychological autopsies: the current department of defense effort to standardize training and quality assurance (Ritchie, EC and Gelles, MG), Nov., 1370

Erotomia De Clerambault’s Syndrome (erotomia) and claims of psychiatric malpractice (Goldstein, RL and Laskin, AM), July, 852


Ethanol Postmortem blood and vitreous humor ethanol concentrations in a victim of a fatal motor vehicle crash (Hardin, GG), March, 402

Ethical codes Review of: Ethics in forensic science: professional standards for the practice of criministics [a volume in the protocols in forensic science series] (Nordby, JJ), Sept., 1184

Ethidium homodimer Visualization of postmortem chordocyte damage by vital staining and confocal laser scanning 3D microscopy (Lasczkowski, GE, Aigner, T, Gamerdinger, U, Weiler, G, and Bratzke, H), May, 663

Ethmoid air cells Identification of human skeletal remains by comparison of bony details of the cranium using computerized tomographic (CT) scans (Smith, DR, Limbird, KG, and Hoffman, JM), Sept., 937

Ethyl centralite A qualitative comparison of smokeless powder measurements (MacCrehan, WA and Reardon, MR), Sept., 996

Associating gunpowder and residues from commercial ammunition using compositional analysis (MacCrehan, WA, Reardon, MR, and Duewer, DL), March, 260


Euploim β-diketonates Determination of luminescent europium β-diketonates used as tracers for shadowing pursuits (Kurata, S, Hirano, H, and Nagai, M), July, 797
Evidence samples
Stability and detectability of lachrymators and their degradation products in evidence samples (Katoaka, M, Seto, Y, Tsuge, K, and Noami, M), Jan., 44

Executions
Medical aspects of capital punishment executions (Khan, A and Leventhal, RM), July, 847

Explosives
A gradient reversed phase HPLC procedure for smokeless powder comparison (Wissinger, CE and McCord, BR), Jan., 168

Extrusion lines
3D measurements on extrusion marks in plastic bags (Berx, V and De Kinder, J), Sept., 976

Fat embolization
Deaths associated with liposuction: case reports and review of the literature (Platt, MS, Kohler, LJ, Ruiz, R, Cohle, SD, and Ravichandran, P), Jan., 205

Fatty acid methyl ester
Chemical analysis of vegetable oils following spontaneous ignition (Coulombe, R), Jan., 195

Feature extraction
Individuality of handwriting (Srihari, SN, Cha, SH, Arora, H, and Lee, S), July, 856

Feaces sample
Extraction of human nuclear DNA from feces samples using the QIAamp DNA stool mini kit (Vandenberg, N and van Oorschot, RAH), Sept., 993

Femur
Validation of a radiographic method to establish new fetal growth standards: radiographic-anatomical correlation (Piercechi-Marti, MD, Adalian, P, Bourliere-Najean, B, Gouvernet, J, Maczel, M, Dutour, O, and Leonetti, G), March, 328

FESFPS
The effect of 1,2-indanedione, a latent fingerprint reagent on subsequent DNA profiling (Azoury, M, Zamir, A, Oz, C, and Wiesner, S), May, 586

F13A
The effect of 1,2-indanedione, a latent fingerprint reagent on subsequent DNA profiling (Azoury, M, Zamir, A, Oz, C, and Wiesner, S), May, 586

F13B
Population study of seven microsatellites in Alagoas—Northeastern Brazil (da Silva, LA, Pimentel, BJ, de Azavedo, DA, da Silva, EN, and dos Santos, SS), Nov., 1399

Fabric
Detection of pepper spray residues on fabrics using liquid chromatography-mass spectrometry (Reilly, CA, Crouch, DJ, Yost, GS, and Andrenyak, DM), Jan., 37

Face
Do resemblance ratings measure the accuracy of facial approximation? (Stephan, CN), March, 239
Review of: Craniofacial identification in forensic medicine (Fenton, TW), Jan., 235

Facial reconstruction
Do resemblance ratings measure the accuracy of facial approximation? (Stephan, CN), March, 239
Facial approximation: globe projection guideline falsified by exophthalmometry literature (Stephan, CN), July, 730

Facial reproduction
Do resemblance ratings measure the accuracy of facial approximation? (Stephan, CN), March, 239
Facial approximation: globe projection guideline falsified by exophthalmometry literature (Stephan, CN), July, 730

Facial tissue depth standards
In vivo facial tissue depth measurements for White British children (Wilkinson, CM), May, 459

Fingerprint development
Evaluation of some oxygen, sulfur, and selenium substituted ninyhydrin analogues, nitroneglyclonhydrin and bezo[fluroninhydrin (Kobus, HJ, Pigou, PE, Jahangiri, SJ, and Taylor, B), March, 254

Fingerprint identification
Review of: advances in fingerprint technology, second edition (Sinke, MJ), May, 707

Fingerprint technology
Review of: advances in fingerprint technology, second edition (Sinke, MJ), May, 707

Fingerprints
Chemical composition of fingerprints for gender determination (Asano, KG, Bayne, CK, Horsman, KM, and Buchanan, MV), July, 805

Comparison of the elemental composition of office document paper: evidence in a homicide case (Spence, LD, Francis, RB, and Tinggi, U), May, 64-8
Extension of the color suite available for chemical enhancement of fingerprints in blood (Caldwell, JP and Kim, ND), March, 322
Trace DNA: a review, discussion of theory, and application of the transfer of trace quantities of DNA through skin contact (Wickenheiser, RA), May, 442

Fire debris
A study of the effects of a micelle encapsulator fire suppression agent on dynamic headspace analysis of fire debris samples (McGee, E and Lang, TL), March, 267
Forensic analysis of ignitable liquids in fire debris by comprehensive two-dimensional gas chromatography (Fryinger, GS and Gaines, RB), May, 471

Fire origin and causes
Chemical analysis of vegetable oils following spontaneous ignition (Coulombe, R), Jan., 195

Fire suppression agent
A study of the effects of a micelle encapsulator fire suppression agent on dynamic headspace analysis of fire debris samples (McGee, E and Lang, TL), March, 267

Firearm investigation
Gunshot residue deposits on the gas pistons of assault rifles (Migeot, G and De Kinder, J), July, 808

Firearms discharge residue (FDR)
Handguns and ammunition indicators extracted from the GSR analysis (Lebedzick, J and Johnson, DL), May, 483

Firearms identification
Development of a 3D-based automated firearms evidence comparison system (Bachrach, B), Nov., 1253
Firelog
Analysis of artificial fireplace logs by high temperature gas chromatography (Kuk, RJ), Nov., 1288

FISH
Use of a Y chromosome probe as an aid in the forensic proof of sexual assault (Dziegielewski, M, Simich, JP, and Rittenhouse-Olson, K), May, 601

Flunitrazepam
The behavioral and cognitive effects of two benzodiazepines associated with drug-facilitated sexual assault (Dowd, SM, Strong, MJ, Janicak, PG, and Negrusz, A), Sept., 1101

Fluorescence
Improving the effectiveness of fluorescence for the detection of semen stains on fabrics (Kobus, H, Silenieks, E, and Scharnberg, J), July, 819

Fluorescence analysis
Trace elemental analysis of drugs of abuse using synchrotron radiation total reflection X-ray fluorescence analysis (SR-TXRF) (Muratsu, S, Ninomiya, T, and Matsu, J), Sept., 944

Fluorescence spectrophotometry
Determination of luminescent europium β-diketonates used as tracers for shadowing pursuits (Kurata, S, Hirano, H, and Nagai, M), July, 797

Fluorescent in situ hybridization
Use of a Y chromosome probe as an aid in the forensic proof of sexual assault (Dziegielewski, M, Simich, JP, and Rittenhouse-Olson, K), May, 601

Fluorescent markers
Development of fluorescent markers using polyacrylic aromatic hydrocarbons with aseine (Kurata, SK, Hirano, H, and Nagai, M), March, 244

Fluoroacetic acid
The identification of sodium fluoroacetate (Compound 1080) employing NMR spectroscopy (Kirms, MA and Kirms, LJ), May, 573

Fluvial transport
Fluvial transport of human remains in the Lower Mississippi River (Bassett, HE and Manheim, MH), July, 719

Foot
Using pre- and post-surgical foot and ankle radiographs for identification (Rich, J, Tatarek, NE, Powers, RH, Brogdon, BG, Lewis, BJ, and Dean, DE), Nov., 1319

Footwear
Identification of decomposed human remains from radiographic comparisons of an unusual foot deformity (Sudimack, JR, Lewis, BJ, Rich, J, Dean, DE, and Fardal, PM), Jan., 218

Forensic anthropologist
A test of the Phenece method for the estimation of sex (Obelaker, DH and Volk, CG), Jan., 19
Age estimation by measuring the racemization of aspartic acid from total amino acid content of several types of bone and rib cartilage: a preliminary account (Ohtani, S, Marusawa, Y, Kobayashi, Y, and Yamamoto, T), Jan., 32
New formulae for estimating stature in the Balkans (Ross, AH and Konigsberg, LW), Jan., 165
Variation in midfacial tissue thickness of African-American children (Williamson, MA, Nawrocki, SP, and Ratibun, TA), Jan., 25

Forensic anthropology
Analysis of pilot-related equipment and archaeological strategy in the recovery of aircraft losses from the Vietnam War (Moore II, CE, Davis, BD, and Leney, MD), Nov., 1210
Authors’ response (McBride, DG), March, 426
Facial approximation: globe projection guideline falsified by exophthalmmometry literature (Stephen, CN), July, 730
Interobserver variation of selected postcranial skeletal measurements (Adams, BJ and Byrd, JE), Nov., 1193
Mandibular ramius height as an indicator of infant age (Norris, SP), Jan, 8
Post-cremation taphonomy and artifact preservation (Warren, MW and Schultz, JJ), May, 656
Radiographic identification using the clavicle of an individual missing from the Vietnam conflict (Adams, BJ and Maves, RC), March, 369
Review of: introduction to forensic anthropology: a textbook (Rowe, WF), Nov., 1
The use of SEM/EDS analysis to distinguish dental and osseous tissue from other materials (Ubelaker, DH, Ward, DC, Braz, VS, and Stiewart, J), Sept., 940
Validation of a radiographic method to establish new fetal growth standards: radiological-anatomical correlation (Piercerchi-Marti, MD, Adalain, P, Boulierie-Najean, B, Gouvenet, J, Maczel, M, Dutour, O, and Leonetti, G), March, 328
Variability of the pattern of aging on the human skeleton: evidence from bone indicators and implications on age at death estimation (Schmitt, A, Murail, P, Cunha, E, and Rouge, D), Nov., 1203

Forensic archeology
Analysis of pilot-related equipment and archaeological strategy in the recovery of aircraft losses from the Vietnam War (Moore II, CE, Davis, BD, and Leney, MD), Nov., 1210

Forensic art
Review of: Forensic art and illustration (Walter, RD), July, 925

Forensic behavioral science
Newborn kidnapping by Cesarean section (Burgess, AW, Baker, T, Nahirny, C, and Rabun, JB), July, 827

Forensic biology
Improving the effectiveness of fluorescence for the detection of semen stains on fabrics (Kobus, H, Silenieks, E, and Scharnberg, J), July, 819

Forensic cytopathology
Sudden death due to an unrecognized cardiac hydatid cyst (Malamou-Mitsi, V, Pappas, I, Vougoulikakis, T, Peschos, D, Kazakos, N, Grekas, G, Sideris, D, and Agnantis, NJ), Sept., 1062

Forensic dentistry
Dental participants in mass disasters—a retrospective study with future implications (Pretty, IA, Webb, DA, and Sweet, DJ), Jan., 117
Digital imaging methods as an aid in dental identification of human remains (Bowers, CM and Johansen, RJ), March, 354
Forensic implications of biting behavior: a conceptually underdeveloped area of investigation (Webb, DA, Sweet, D, Hinman, DL, and Pretty, IA), Jan., 103
Photographic evidence protocol: the use of digital imaging methods to rectify angular distortion and create life size reproductions of bite mark evidence (Bowers, CM and Johansen, RJ), Jan., 179
Significance of the recent extraction to the postmortem dental identification: a case study (Carmichael, WW), Sept., 1046
The use of quantitative light-induced fluorescence (QLF) to identify composite restorations in forensic examinations (Pretty, IA, Smith, PW, Edgar, WM, and Higham, SM), July, 831

Forensic engineering
Review of: forensic engineering investigation (Batterman, S), May, 712

Forensic entomology
Effect of temperature on development of Lioptypia (= Sarcophaga) Argyrostoma (Robineau-Desvoidy) (Diptera: Sarcophagidae) and its forensic implications (Grassberger, M and Reiter, C), Nov., 1332
Time of submergence using aquatic invertebrate succession and decomposition changes (Hobischak, NR and Anderson, GS), Jan., 142

Forensic genetics
Population data for the STR systems D3S1358, D8S1179, D18S51, D21S11, and...
the Y-chromosomal DYS385 in a population sample from Lower Franconia (South Germany) (Jung, S and Putzelt, D), Sept., 1145

Y-Chromosome STR haplotypes in central-west African immigrants in Spain population sample (Gama, JJ, Romero, JL, González, JL, Carvalho, M, Anjos, MJ, Real, FC, Vieira, DN, and Vide, MC), March, 421

**Forensic identification**


**Forensic investigation**

Identification of human urine stains by HPLC analysis of 17-ketosteroid conjugates (Nakazono, T, Kashimura, S, Hayashiya, T, Hisatomi, T, and Hara, H), May, 568

Population database of Y-chromosomal haplotypes at five microsatellites among two distinct ethnic groups of Western India (Das, B, Chauhan, PS, and Seshadri, M), May, 692

Y-chromosomal STR haplotypes in two population groups of Kerala in South India (Das, B, Chauhan, PS, and Seshadri, M), May, 690

**Forensic markers**

Detection of pepper spray residues on fabrics using liquid chromatography-mass spectrometry (Reilly, CA, Crouch, DJ, Yost, GS, and Andrenyak, DM), Jan., 37

**Forensic medicine**

Discovery of decomposed and mumified corpses in the domestic setting—a marker of social isolation? (Hönnigschnabl, S, Schaden, E, Stichewirth, M, Schneider, B, Kluup, N, Kreimeier, E, Lehner, W, Vycudilik, W, Bauer, G, and Risser, D), July, 837

**Forensic mineralogy**

Identification of stolen rare palm trees by soil morphological and mineralogical properties (Lee, BD, Williamson, TN, and Graham, RC), Jan., 190

**Forensic odontology**

Digital imaging methods as an aid in dental identification of human remains (Bowers, CM and Johansen, RJ), March, 354

Jonestown tragedy revisited: the role of dentistry (Brannon, RB and Morlang, WM), Jan., 3

Nutrient canals of the alveolar process as an anatomic feature for dental identifications (Fielding, CC), March, 381

Photographic evidence protocol: the use of digital imaging methods to rectify angular distortion and create life size reproductions of bite mark evidence (Bowers, CM and Johansen, RJ), Jan., 179

Significance of the recent extraction to the postmortem dental identification: a case study (Camichael, WW), Sept., 1046

The crash of LOT flight 007: dental identification (Brannon, RB and Morlang, WM), Nov., 1323

The efficiency of an X-ray screening system at a mass disaster (Goodman, NR and Edelson, LB), Jan., 127

**Forensic pathologist**

Review of: introduction to forensic anthropology: a textbook (Rowe, WF), Nov., 1

**Forensic pathology**

Bodies found in the waterways of New York City (Lucas, J, Goldfeder, LB, and Gill, JR), Jan., 137

Deaths associated with liposuction: case reports and review of the literature (Platt, MS, Kohler, LJ, Ruiz, R, Cohle, SD, and Ravichandran, P), Jan., 205

Identification of decomposed human remains from radiographic comparisons of an unusual foot deformity (Sudimack, JR, Lewis, BJ, Rich, J, Dean, DE, and Fardal, PM), Jan., 218

Ten years of “body packers” in New York City: 50 deaths (Gill, JR and Graham, SM), July, 843

Using pre- and post-surgical foot and ankle radiographs for identification (Rich, J, Tatarek, NE, Powers, RH, Brodgon, BG, Lewis, BJ, and Dean, DE), Nov., 1319

**Forensic physics**

Gunshot location through recorded sound: a preliminary report (Pregliasco, RG and Martinez, EN), Nov., 1309

**Forensic psychiatry**

De Clarambault’s Syndrome (erotomania) and claims of psychiatric malpractice (Goldstein, RL and Laskin, AM), July, 852

Factors predictive of changes in the legal status of psychiatric inpatients (Anand, VS, Ciccone, JR, Kashian, I, and Seger, A), Nov., 1365

Fiery tongues and mystical motivations: glossolalia in a forensic population is associated with mania and sexual/religious delusions (Hempel, AG, Meloy, JR, Stern, R, Ozone, SJ, and Gray, BT), March, 305

**Forensic radiology**

Charrd body: virtual autopsy with multislice computed tomography and magnetic resonance imaging (Thalii, MJ, Yen, K, Plattner, T, Schweitzer, W, Vock, P, Orz, doba, C, and Dimhofer, R), Nov., 1326

Forensic radiology with cross-section modalities: spiral CT evaluation of a knife wound to the aorta (Thalii, MJ, Schwab, CM, Tafr, K, Dimhofer, R, and Vock, P), Sept., 1041

**Forensic science**

A fatal case of cocaine poisoning in a body packer (Furnari, C, Ottaviano, V, Sacchetti, G, and Mancini, M), Jan., 208

A gradient reversed phase HPLC procedure for smokeless powder comparison (Wissinger, CE and McCord, BR), Jan., 168

A test of the Phenice method for the estimation of sex (Ubelaker, DH and Volk, CG), Jan., 19

Age estimation from measuring the racemization of aspartic acid from total amino acid content of several types of bone and rib cartilage: a preliminary account (Ohnati, S, Matsushima, Y, Kobayashi, Y, and Yamamoto, T), Jan., 32

Allele frequency distribution for nine fluorescent based STR loci in Tamil population (South India) (Panneerchelvam, S, Vanaja, N, Goud, CV, Sheeba, A, Rao, GV, and Damodaran, C), Jan., 226

Allele frequency distribution of two minisatellite loci (D19S20 and ApoB 3' VNTR) among five distinct population groups of India (Das, B, Chauhan, PS, and Seshadri, M), Jan., 229

An approach to individual video camera identification (Kurosawa, K, Kuroki, K, and Saitoh, N), Jan., 97

Application of Remondin’s adult dental aging techniques to a diverse skeletal sample (Prince, DA and Ubelaker, D), Jan., 107

Author’s response (Telmon, N and Allery, JP), May, 703

Author’s response (Houck, MM), May, 699

Author’s response (Lewis, LA), May, 701

Bodies found in the waterways of New York City (Lucas, J, Goldfeder, LB, and Gill, JR), Jan., 137

Chemical analysis of vegetable oils following spontaneous ignition (Coulombe, R), Jan., 195


Photographic evidence protocol: the use of digital imaging methods to rectify angular distortion and create life size reproductions of bite mark evidence (Bowers, CM and J ohansen, RJ), Jan., 179

Population data on the three STR loci in the Upper Silesia (Poland) (Raczek, E), Jan., 228


President’s editorial—the changing practice of forensic science (Jones, GR), May, 437

Review of: advances in fingerprint technology, second edition (Sinke, MJ), May, 707

Review of: clinical and forensic applications of capillary electrophoresis, first edition (Tagliaro, F. and Bortolotti, F), May, 713

Review of: contrast: an investigator’s basic reference guide to fingerprint identification (Sinke, MJ), May, 708

Review of: craniofacial identification in forensic medicine (Fenton, TW), Jan., 235

Review of: digital analysis of bite mark evidence using Adobe® Photoshop® (Kenney, JP), May, 709

Review of: forensic DNA typing (Sensbaugh, GF), May, 705

Review of: forensic engineering investigation (Batterman, S), May, 712

Review of: handbook of analytical separations. volume 2, forensic science (Isenschmid, DS), May, 710

Review of: Questioned documents: a lawyer’s handbook (McKasson, S), May, 704

Review of: the Robert F. Borkenstein International Symposium on Alcohol and Forensic Science—the Influence of Alcohol and Drugs on Transportation Safety (Caplan, YH), May, 706

Stability and detectability of lachrymators and their degradation products in evidence samples (Katuoka, M, Seto, Y, Tsuge, K, and Noami, M), Jan., 44

Stalking: developing an empirical taxonomy to classify stalkers (Del Ben, K and Fre mouw, WJ), Jan., 152

Suicide by drowning: a 20-year review (Wirthwein, DP, Barnard, JJ, and Prahlow, JA), Jan., 131

The efficiency of an X-ray screening system at a mass disaster (Goodman, NR and Edelson, LB), Jan., 127

Three Y-chromosome STR frequencies in a population from Equatorial Guinea (central Africa) (Alvarez, S, Lopez-Parras, AM, Mesa, MA, Jimenez, V, Herrera, SJ, Bar tres, F, Arrazito, A, Rubio, JM, and Arroyo-Pardo, E), Jan., 224

Time of submergence using aquatic invertebrates as indicators of postmortem interval from aquatic invertebrates (Jenkins, FS, and Pretty, IA). Nov., 713

Identification of decomposed human remains from radiographic comparisons of an unusual foot deformity (Sudimack, JR, Mandibular rami height as an indicator of infant age (Norris, SP), Jan., 8

New formulae for estimating stature in the Balkans (Ross, AH and Konigsberg, LW), Jan., 165

TWGDAM validation of AMPF/STR™ PCR amplification kits for forensic DNA casework (Holt, CL, Buoncristiani, M, Wallin, JM, Nguyen, T, Lazaruk, KD, and Walsh, PS), Jan., 66

Typing of the locus DYS19 from DNA derived from fingerprint clippings using PCR Concert™ rapid purification system (Gantigano, DA, Garofalo, MG, Juvelen, GJ, Budowlow, B, and Padula, RA), Jan., 175

Typing Y chromosome STR haplotypes using redesigned primers (Hou, Y. Zhang, J, Sun, D, Li, Y, Wu, J, Zhang, S, and Prinz, M), Jan., 215

Unexpected death due to infectious mononucleosis (Byard, RW), Jan., 202

Variation in midfacial tissue thickness of African-American children (Williamson, MA, Nawrocki, SP, and Rathburn, TA), Jan., 25

Forensic taphonomy

Review of: advances in forensic taphonomy: method, theory, and archaeological perspectives (Rowe, WF), Nov., 1407

Forensic toxicology

A case of homicide by lethal injection with Lidocaine (Kalin, JR and Brissie, RM), Sept., 1135

Ecstasy (MDMA) deaths in New York City: a case series and review of the literature (Gill, JR, Hayes, JA, seSouza, IS, Marker, E, and Stajic, M), Jan., 121

Review of: the forensic taphonomy: method, theory, and archaeological perspectives (Rowe, WF), Nov., 1407

Postmortem blood and vitreous humor ethanol concentrations in a victim of a fatal motor vehicle crash (Hardin, GG), March, 402

Postmortem concentrations of citalopram (Anastos, N, McIntyre, IM, Lynch, MJ, and Drummer, OH), July, 882

Review of: handbook of analytical separations. volume 2, forensic science (Isenschmid, DS), May, 710

The use of oral fluid and sweat wipes for the detection of drugs of abuse in drivers (Samyn, N, De Boeck, G, and Verstraete, AG), Nov., 1380

Forensics

Detection of a primer-binding site polymorphism for the STR locus D16S539 using the Powerplex® 1.1 system and validation of a degenerate primer to correct for the polymorphism (Nelson, MS, Levedakou, EN, Matthews, JR, Early, BE, Freeman, DA, Kuhn, CA, Sprecher, CJ, Amin, AS, McEl fresh, KC, and Schumm, JW), March, 345

Fragmented and commingled remains

The efficiency of an X-ray screening system at a mass disaster (Goodman, NR and Edelson, LB), Jan., 127

Fraternal twins

Author’s response (Wisecarver, JL and Rubocki, RJ), Sept., 1174

Commentary on: Rubocki RJ, McCue BJ, Duffy KJ, Shepard KL, Shepherd SJ, Wise-
Fiction threshold
Utilized coefficient of fiction during walking: static estimates exceed measured values (Powers, CM, Burnfield, JM, Lim, P, Brault, JM, and Flynn, JE), Nov., 1303

Frontal sinus
Identification of human skeletal remains by comparison of bony details of the cranium using computerized tomographic (CT) scans (Smith, DR, Limbird, KG, and Hoffman, JM), Sept., 937
Skeletal identification using the frontal sinus region: a retrospective study of 39 cases (Kirk, NJ, Wood, RE, and Goldstein, M), March, 318

G

Gas chromatography
Analysis of artificial fireplace logs by high temperature gas chromatography (Kut, RJ), Nov., 1288
Fatal and nonfatal poisoning by hydrogen sulfide at an industrial waste site (Kage, S, Kashimura, S, Ikeda, H. Kudo, K, and Ikeda, N), May, 652
Forensic analysis of ignitable liquids in fire debris by comprehensive two-dimensional gas chromatography (Frysinger, GS and Gaines, RB), May, 471

Gas chromatography-mass spectrometry
A study of the effects of a fire suppression agent on dynamic headspace analysis of fire debris samples (McGee, E and Lang, TL), March, 267

Gasoline
Forensic analysis of ignitable liquids in fire debris by comprehensive two-dimensional gas chromatography (Frysinger, GS and Gaines, RB), May, 471

GC
Recovery of genomic DNA from archived PCR product mixes for subsequent multiplex amplification and typing of additional loci: forensic significance for older unsolved criminal cases (Patchett, KL, Cox, KJ, and Burns, DM), July, 786

GC/MS/MS
Detection of petrol (gasoline) in fire debris by gas chromatography/mass spectrometry/mass spectrometry (GC/MS/MS) (de-Vos, BJ, Froneman, M, Rohwer, E, and Sutherland, DA), July, 736
Concentrations of unconjugated morphine, codeine and 6-acetylmorphine in urine specimens from suspected drugged drivers (Ceder, G and Jones, AW), March, 366

Genetic database
D1S80 population data in eight predominant populations of India (Trivedi, R, Chat-topadhyay, P, Dutta, R, Sarkar, N, Sharma, AK, and Kashyap, VK), May, 676

Genomic DNA
Recovery of genomic DNA from archived PCR product mixes for subsequent multiplex amplification and typing of additional loci: forensic significance for older unsolved criminal cases (Patchett, KL, Cox, KJ, and Burns, DM), July, 786

Genotype
Author’s response (Çakir, AH), July, 922

Genotypes
Author’s response (Perlin, MW), Sept., 1177

Genotyping
Extraction of human nuclear DNA from feces samples using the QIAamp DNA stool mini kit (Vandenbarg, N and van Oorschot, RAH), Sept., 993

Geographic profiling
Commentary on: Rossi D. Review of: Geographic profiling, J Forensic Sci 2001; 46(3):765 (Rossmo, DK), Sept., 1175

GHB detection
Review of: Benzodiazepines and GHB detection and pharmacology (Logan, BK), Sept., 1186

Glass
Interpretation of glass composition measurements: the effects of match criteria on discrimination capability (Koons, RD and Buscaglia, J), May, 505
Review of: forensic interpretation of glass evidence (Boitrell, MC and Webb, JB), July, 926

Glossolalia
Fiery tongues and mystical motivations: glossolalia in a forensic population is associated with mania and sexual/religious delusions (Hempel, AG, Meloy, JR, Stern, R, Ozone, SJ, and Gray, BT), March, 305

Glycated hemoglobin
HbA1c as a postmortem tool to identify glycosic control (Winkeeker, RE, Hammett-Stabler, CA, Chapman, JF, and Ropero-Miller, JD), Nov., 1373

Gun shot residues
Gunshot residue deposits on the gas pistons of assault rifles (Migeot, G and De Kinder, J), July, 808

Gunpowder
Associating gunpowder and residues from commercial ammunition using compositional analysis (MacCrehan, WA, Reardon, MR, and Duewer, DL), March, 260

Gunpowder additives
A quantitative comparison of smokeless powder measurements (MacCrehan, WA, Reardon, MR, and Duewer, DL), Nov., 1283

Gunshot residue
Associating gunpowder and residues from commercial ammunition using compositional analysis (MacCrehan, WA, Reardon, MR, and Duewer, DL), March, 260
Brake linings: a source of non-GSR particles containing lead, barium, and antimony (Torre, C, Mattutino, G, Vasino, V, and Robino, C), May, 494

Gunshot residue (GSR)
Handguns and ammunitions indicators extracted from the GSR analysis (Lebiedeck, J and Johnson, DL), May, 483

Gunshot wounds
Gunshot location through recorded sound: a preliminary report (Pregliasco, RG and Martinez, EN), Nov., 1309

Guyana
Jonestown tragedy revisited: the role of dentistry (Brannon, RB and Morlang, WM), Jan., 3

GYPA
Polymarker, HLA-DQαα, and D1S80 allele frequency data in Antioquia (Colombia) population (Builes, JJ, Moreno, MA, Gaviria, AM, Espinal, C, Cuartas, AE, Figueroa, EE, and Bravo, MJ), July, 902
Recovery of genomic DNA from archived PCR product mixes for subsequent multiplex amplification and typing of additional loci: forensic significance for older unsolved criminal cases (Patchett, KL, Cox, KJ, and Burns, DM), July, 786

H

Hair
A method for the longitudinal sectioning of single hair samples (Kempson, IM, Skinner, WM, and Kirkbride, KP), July, 889

Hair analysis
Hair analysis of seven bodybuilders for anabolic steroids, ephedrine, and clenbuterol (Dumeszcze-Toutel, V, Cirimele, V, Ludes, B, Gromb, S, and Kintz, P), Jan., 211
Hair comparisons
Correlation of microscopic and mitochondrial DNA hair comparisons (Houck, MM and Budowle, B), Sept., 964

Handwriting
Forensic handwriting examiners' expertise for signature comparison (Sita, J, Found, B, and Rogers, DK), Sept., 1117

Hanging
Fatal accidental hanging from a lanyard key chain in a 10-year-old boy (Denton, JS), Nov., 1345

Haplogroup designation
Characterization of the Caucasian haplogroups present in the SWGDAM forensic mtDNA dataset for 1711 human control region sequences (Allard, MW, Miller, K, Wilson, M, Monson, KL, and Budowle, B), Nov., 1215

Haplotype
DYS19, DYS385, DYS389, (I and II), DYS390, DYS391, DYS392, DYS393 haplotypes in a population sample from Catalonia (North-East Spain) (Gene, M, Pique, E, Borrego, N, Ortega, M, Xifro, A, Hugue, E, Moreno, P, and Corbella, J), Sept., 1156

Hardy-Weinberg equilibrium
Genetic study of 15 important STR loci among four major ethnic groups of Bihar, India (Asha, R and Kashyap, VK), Sept., 1139

HBGG
Polymarker, HLA-DQA1, and D1S80 allele frequency data in Antioquia (Colombia) population (Builes, JJ, Moreno, MA, Gaviria, AM, Espinal, C, Cuartas, AE, Figuerola, EE, and Bravo, MJ), July, 902

Horizontal polyacrylamide gel electrophoresis
Typing Y chromosome STR haplotypes using redesigned primers (Hou, Y, Zhang, J, Sun, D, Li, Y, Wu, J, Zhang, S, and Prinz, M), Jan., 215

HPSR
A 3-D transformation to improve the legibility of license plate numbers (Wen, CY, Yu, CC, and Hun, ZD), May, 578

HPLC
Changes in composition of ballpoint pen inks on aging in darkness (Andrasko, J), March, 324

Histomorphometry

Homicide
A case of homicide by lethal injection with Lidocaine (Kalin, JR and Brissie, RM), Sept., 1135

Haplotype DQA1
Recovery of genomic DNA from archived PCR product mixes for subsequent multiplex amplification and typing of additional loci: forensic significance for unsolved criminal cases (Patchett, KL, Cox, KJ, and Burns, DM), July, 786

Hypocalcemia
Fatal and nonfatal poisoning by hydrogen sulfide at an industrial waste site (Kage, S, Kashimura, S, Ikeda, H, Kudo, K, and Ikeda, N), May, 652

Hydrolysis
Author's response (Gnezda, M and Salamone, SJ), March, 428

Hydrogen sulfide
Fatal and nonfatal poisoning by hydrogen sulfide at an industrial waste site (Kage, S, Kashimura, S, Ikeda, H, Kudo, K, and Ikeda, N), May, 652

Hyperglycemia
Fatality from olanzapine induced hyperglycemia (Meatherall, R and Younes, J), July, 893

Hypoxic-ischemic encephalopathy
Pseudo-subarachnoid hemorrhage of the head diagnosed by computerized axial tomography: a postmortem study of ten medical examiner cases (Chute, DJ and Smialek, JE), March, 360

ID3 algorithm
Authors' response (McBride, DG), March, 426

Identification
An approach to individual video camera identification (Kurosawa, K, Kuroki, K, and Saitoh, N), Jan., 97

Images
Dental participants in mass disasters—a retrospective study with future implications (Pretty, IA, Webb, DA, and Sweet, D), Jan., 117

Skeletal remains presumed submerged in water for three years identified using PCR-
STR analysis (Crainic, K, Paraire, F, Leterreux, M, Dungan, M, and de Mazancourt, P), Sept., 1025
The use of quantitative light-induced fluorescence (QLF) to identify composite restorations in forensic examinations (Pretty, IA, Smith, PW, Edgar, WM, and Higham, SM), July, 831

Ignotable liquids
Forensic analysis of ignitable liquids in fire debris by comprehensive two-dimensional gas chromatography (Frysinger, GS and Gaines, RB), May, 471

Ignotable liquids
A study of the effects of a micelle encapsulator fire suppression agent on dynamic gas chromatography of fire debris samples (McGee, E and Lang, TL), March, 267

Ill-treatment
Assessment of the quality of medical documents issued in central police stations in Madrid, Spain: the doctor’s role in the prevention of ill-treatment (Petersen, HD, Morentin, B, Callado, LF, Meana, JJ, and Idoiyaga, MI), March, 293

Illustration
Review of: Forensic art and illustration (Walter, RD), July, 925

Image analysis
A discrimination method for paper by Fourier transform and cross correlation (miyata, H, Shinozaki, M, Nakayama, T, and Enome, T), Sept., 1125

Image databases
Content based information retrieval in forensic image database (Geradts, Z and Bi-jhold, J), March, 285

Image/X-ray analysis
Handguns and ammunition indicators extracted from the GSR analysis (Lebiedzik, J and Johnson, DL), May, 483

Immunohistochemistry
Determination of ABO blood grouping from human oral squamous epithelium by the highly sensitive immunohistochemical staining method EnVision+ (Noda, H, Yokota, M, Tsatsumi, S, and Sugiyama, S), March, 341

Impalement
Bizarre impalement fatalities—where is the implement? (Karger, B, Teige, K, and Bajanowski, T), March, 389

Impurity profiling
Levels of trace and major elements in illicit heroin (Bora, T, Merdivan, M, and Hamanci, C), Sept., 959

Trace elemental analysis of drugs of abuse using synchrotron radiation total reflection X-ray fluorescence analysis (SR-TXRF) (Muratsu, S, Ninomiya, T, Kagoshima, Y, and Matsui, J), Sept., 944

Incest
A father marries his daughters: a case of incestuous polygamy (Myers, WC and Brasington, SJ), Sept., 1112

India
Allele frequency distribution at five Y-chromosomal short tandem repeat loci among five distinct ethnic groups of India (Das, B, Chauhan, PS, and Seshadri, M), March, 410
Distribution of allele frequencies for two short tandem repeats (HUMTH01 and F13A01) among five Indian population groups (Ghosh, A and Seshadri, M), March, 415
Indian population data for two tetrameric short tandem repeat loci:—WA and D3S1359 (Ghosh, A and Seshadri, M), March, 413

Indian population
Population database of Y-chromosomal haplotypes at five microsatellites among two distinct ethnic groups of Western India (Das, B, Chauhan, PS, and Seshadri, M), May, 692

Indo-Caucasian
D1S80 population data in eight predominant populations of India (Trivedi, R, Chat-topadhay, P, Dutta, R, Sarkar, N, Sharma, AK, and Kashyap, VK), May, 676

Indo-Mongoloid
D1S80 population data in eight predominant populations of India (Trivedi, R, Chat-topadhay, P, Dutta, R, Sarkar, N, Sharma, AK, and Kashyap, VK), May, 676

Indonesian
Allele frequency distribution of the STR locus D2S161 in Indonesians, Tibetans, South African Blacks and South African Whites (Kido, A, Susukida, R, Oya, M, Fujitani, N, Kimura, H, and Hara, M), Nov., 1401

Inductively coupled plasma spectroscopy
Comparison of the elemental composition of office document paper: evidence in a homicide case (Spence, LD, Francis, RB, and Tinguli, U), May, 648

Infant abduction
Newborn kidnapping by Cesarean section (Burgess, AW, Baker, T, Nahirny, C, and Rabun, JB), July, 827

Infectious mononucleosis
Unexpected death due to infectious mononucleosis (Byard, RW), Jan., 202

Inks
Changes in composition of ballpoint pen inks on aging in darkness (Andrasko, J), March, 324

Internet
Pedophilia on the Internet (Deirmenjian, JM), Sept., 1090

Interobserver variation
Interobserver variation of selected postcranial skeletal measurements (Adams, BJ and Byrd, JE), Nov., 1193

Interpretation
Interpreting small quantities of DNA: the hierarchy of propositions and the use of Bayesian networks (Evett, IW, Gill, PD, Jackson, G, Whitaker, J, and Champod, C), May, 520

Intoxication
Criminal responsibility and cannabis use: psychiatric review and proposed guidelines (Niveau, G), May, 451

Intravenous bags
A method for the determination of syringe needle punctures in rubber stoppers using stereoscopic light microscopy (Platek, SF, Keisler, MA, Ranieri, N, Reynolds, TW, and Crowe, JB), Sept., 986

Involuntary commitment
Factors predictive of changes in the legal status of psychiatric inpatients (Anand, VS, Ciccone, JR, Kashian, I, and Seger, A), Nov., 1365

Ion preparation method (IPM)
Detection of petrol (gasoline) in fire debris by gas chromatography/mass spectrometry/mass spectrometry (GC/MS/MS) (De Vos, BJ, Froneman, M, Rohwer, E, and Sutherland, DA), July, 736

Istanbul
Allele frequencies for 10 STR loci in Istanbul (Turkey) population (Filoglu, G, Abaci-Kalfoglou, E, and Atasoy, S), July, 909

Italy
Allele frequencies for eight STR loci in a population sample from Sicily (Italy) (Assumption, A, Sapienza, D, and Cimino, C), March, 408
Distribution of DYS319, DYS389 I, DYS389 II, DYS390 alleles in a southern Italian population sample (Di Nunno, N, Baldassarra, SL, Di Nunno, C, Boninfante, B, Guanti, G, Forleo, G, and Resta, N), March, 417

Jeffrey Dahmer
The case of Jeffrey Dahmer: sexual serial homicide from a neuropsychiatric developmental perspective (Silva, JA, Ferrati, MM, and Leong, GB), Nov., 1347
K

Ketosis
Detection of ketosis in vitreous at autopsy after embalming (Steinhauer, JR, Volk, A, Hardy, R. Konrad, R, Daly, T. and Robinson, CA), Jan., 221

17-Ketosteroids
Identification of human urine stains by HPLC analysis of 17-ketosteroid conjugates (Nakazono, T. Kashimura, S, Hayashiba, Y, Hisatomi, T, and Hara, K), May, 568

Lead analysis
Compositional variation in bullet lead manufacture (Koons, RD and Grant, DM), Sept., 950

Legal evidence
The combined use of pollen and soil analyses in a search and subsequent murder investigation (Brown, AG, Smith, A, and Elmhurst, Q), May, 614

Lethal injection
A case of homicide by lethal injection with Lidocaine (Kaln, JR and Brissie, RM), Sept., 1135

License plate identification
A 3-D transformation to improve the legibility of license plate numbers (Wen, CY, Yu, CC, and Hun, ZD), May, 578

Lidocaine
A case of homicide by lethal injection with Lidocaine (Kaln, JR and Brissie, RM), Sept., 1135

Ligature strangulation
Cervical fracture, decapitation, and vehicle-assisted suicide (Byard, RW and Gilbert, JD), March, 392

Likelihood ratios
Interpreting small quantities of DNA: the hierarchy of propositions and the use of Bayesian networks (Evett, IW, Gill, PD, Jackson, G, Whitaker, J, and Chambod, C), May, 520

Linear mixture analysis
Author’s response (Perlin, MW), Sept., 1177

Lipsuction
Deaths associated with liposuction: case reports and review of the literature (Platt, MS, Kohler, L, Ruiz, R, Cohle, SD, and Ravichandran, P), Jan., 205

LPL
Population study of seven microsatellites in Alagoas—Northeastern Brazil (da Silva, LA, Pimentel, BJ, de Azevedo, DA, da Silva, EN, and dos Santos, SS), Nov., 1399

Luminescence
Improving the effectiveness of fluorescence for the detection of semen stains on fabrics (Kobus, H, Silienieks, E, and Scharnberg, J), July, 819

M

Maltreatment
Concentrated bleach burns in a child (Telmon, N. Allery, JP, Dorandeau, A, and Roué, D), Sept., 1060

Mandible/radiography
Nutrient canals of the alveolar process as an anatomic feature for dental identifications (Fielding, CC), March, 381

Manner of death
Bodies found in the waterways of New York City (Lucas, J, Goldfeder, LB, and Gill, JR), Jan., 137

Mass casualty incidents
The emotional and psychological impact of mass casualty incidents on forensic odontologists (Webb, DA, Sweet, D, and Pretty, IA), May, 539

Mass spectrometry
Does ink age inside of a pen cartridge? (Grim, DM, Siegel, J, and Allison, J), Nov., 1294

Evaluation of laser desorption mass spectrometry and UV accelerated aging of dyes on paper as tools for the evaluation of a questioned document (Grim, DM, Siegel, J, and Allison, J), Nov., 1265

Fatal and nonfatal poisoning by hydrogen sulfide at an industrial waste site (Kage, S, Kashimura, S, Ikeda, H, Kudo, K, and Ikeda, N), May, 652

Mass-disaster investigation
The crash of LOT flight 007: dental identification (Bannon, RB and Morlang, WM), Nov., 1323

Mastoid air cells
Identification of human skeletal remains by comparison of bony details of the cranium using computerized tomographic (CT) scans (Smith, DR, Limbird, KG, and Hoffman, JM), Sept., 937

Material “fingerprint”
Optimum methamphetamine profiling with sample preparation by solid-phase microex-
ECSTASY (MDMA) DEATHS IN NEW YORK CITY: A CASE SERIES AND REVIEW OF THE LITERATURE

Stevens, M., and Madea, B., Sept., 1035

MELTING CURVE SNP (MC3SNP) GENOTYPING

Melting curve SNP (MC3SNP) genotyping: a useful approach for diallelic genotyping in forensic science (Ye, J. Parra, EJ, Sosonski, DM, Hiester, K, Underhill, PA, and Shriver, MD), May, 593

MEMORY IMPAIRMENT

Acute dissociative responses in law enforcement officers involved in critical shooting incidents: the clinical and forensic implications (Rivard, JM, Dietz, P, Martell, D, and Widawski, M), Sept., 1093

MENINGITIS

Fatal meningitis and encephalitis due to Bartonella henselae bacteria (Gerber, JE, Johnson, JE, Scott, MA, and Madhusudhan, KT), May, 640

MENSTRUAL BLOOD

Evaluation of mRNA markers for the identification of menstrual blood (Bauer, M and Patzel, D), Nov., 1278

MENTAL ILLNESS


METABOLITE

Fatal and nonfatal poisoning by hydrogen sulfide at an industrial waste site (Kage, S, Kashimura, S, Ikeda, H, Kudo, K, and Ikeda, N), May, 652

METHAMPHETAMINE

Enantioselective separation of methamphetamine and related analogs by capillary zone electrophoresis: intelligence study in routine methamphetamine seizures (Cheng, WC, Lee, WM, Chan, MF, Tsui, P, and Dao, KL), Nov., 1248

METHYL VIOLET

Evaluation of laser desorption mass spectrometry and UV accelerated aging of dyes on paper as tools for the evaluation of a questioned document (Grim, DM, Siegel, J, and Allison, J), Nov., 1265

MICRO-INFRARED SPECTROSCOPY

Identification of tiny and thin smears of automotive paint following a traffic accident (Giang, YS, Wang, SM, Cho, LL, Yang, CK, and Lu, CC), May, 623

MICROSCOPY


MITOCHONDRIAL DNA

An improved method for post-PCR purification of mtDNA sequence analysis (Dugan, KA, Lawrence, H, Hares, DR, Fisher, CL, and Budowle, B), July, 811

Correlation of microscopic and mitochondrial DNA hair comparisons (Houck, MM and Budowle, B), Sept., 964

Mitochondrial DNA and STR typing of matter adhering to an earphone (Seo, Y, Uchiyama, T, Matsuda, H, Shimizu, K, Takami, Y, Nakayama, T, and Takahama, K), May, 605

Mitochondrial DNA sequencing of beetle larvae (Nitudulidae: Omositia) recovered from human bone (DiZinno, JA, Lord, WD, Collins-Morton, MB, Wilson, MR, and Goff, MLJ), Nov., 1337

Successful DNA typing of a urine sample in a doping control case using a human mitochondrial DNA analysis (Junge, A, Steeves, M, and Madea, B), Sept., 1022

Surface sterilization of a maggot using bleach does not interfere with mitochondrial DNA analysis of crop contents (Linville, JG and Wells, JD), Sept., 1055

MMPI-2

A comparison of simulation and known groups in the detection of malingering on the MMPI-2 (Kucharski, LT and Johnsen, D), Sept., 1078

MOTOR VEHICLE ACCIDENTS

Review of: forensic accident investigation: motor vehicles; forensic accident investigation: motor vehicles—2 (Batterman, SD), Nov., 1412

MOTOR VEHICLE COLLISIONS

Children in motor vehicle collisions: Analysis of injury by restraint use and seat location (Sweitzer, RE, Rink, RD, Corey, TS, and Goldsmith, J), Sept., 1049

MOTOR VEHICLES

Driver and front seat passenger fatalities associated with air bag deployment. Part 1: A Canadian study (Shkrum, MJ, McClafferty, KJ, Nowak, ES, and German, A), Sept., 1028

Driver and front seat passenger fatalities associated with air bag deployment. Part 2: A review of injury patterns and investigative issues (Shkrum, MJ, McClafferty, KJ, Nowak, ES, and German, A), Sept., 1035

MRNA

Evaluation of mRNA markers for the identification of menstrual blood (Bauer, M and Patzel, D), Nov., 1278

MULTIPLEX


MULTIPLEX

Constructing universal multiplex PCR systems for comparative genotyping (Wallin, JM, Holt, CL, Lazaruk, KD, Nguyen, TH, and Walsh, PS), Jan., 52

Detection of a primer-binding site polymorphism for the STR locus D16S539 using the Powerplex<sup>™</sup> 1.1 system and validation of a degenerate primer to correct for the polymorphism (Nelson, MS, Levedakou, EN, Matthews, JR, Early, BE, Freeman, DA, Kuhn, CA, Sprecher, C, Amin, AS, McElfresh, KC, and Schummm, JW), March, 345

MULTIPLEX AMPLIFICATION

Recovery of genomic DNA from archived PCR product mixes for subsequent multiplex amplification and typing of additional loci: forensic significance for older unsolved criminal cases (Patchett, KL, Cox, KJ, and Burns, DM), July, 786

MYOSIS

Effect of temperature on development of Liopygia (= Sarcoptes) Argyrostroma (Robineau-Desvoidy) (Diptera: Sarcoptagi- dae) and its forensic implications (Grassberger, M and Reiter, C), Nov., 1332
Narcotics
Review of: the Robert F. Borkenstein International Symposium on Alcohol and Forensic Science—the Influence of Alcohol and Drugs on Transportation Safety (Caplan, YH), May, 706

Necrophagia
The case of Jeffrey Dahmer: sexual serial homicide from a neuropsychiatric developmental perspective (Silva, JA, Ferrari, MM, and Leong, GB), Nov., 1347

Necrophilia
The case of Jeffrey Dahmer: sexual serial homicide from a neuropsychiatric developmental perspective (Silva, JA, Ferrari, MM, and Leong, GB), Nov., 1347

Needle
A method for the determination of syringe needle punctures in rubber stoppers using stereoscopic light microscopy (Platek, SF, Keisler, MA, Ranieri, N, Reynolds, TW, and Crowe, JB), Sept., 986

New York City
Sharp injury fatalities in New York City (Gill, JR and Catanean, C), May, 554

Ninhydrin
Advanced solvent-free application of ninhydrin for detection of latent fingerprints on thermal paper and other surfaces (Schwartz, L and Freir, L), Nov., 1274

Ninhydrin analogues
Evaluation of some oxygen, sulfur, and selenium substituted ninhydrin analogues, ni-trophenylhydrazino and benzylfluoro-ninhydrin (Kobus, HJ, Pigou, PE, Fahangri, SJ, and Taylor, B), March, 254

Nitroglycerin
A qualitative comparison of smokeless powder measurements (MacCrehan, WA and Reardon, MR), Sept., 996

NMR Spectroscopy
Author’s Response (Lee, GS and Wilson, MA), March, 430
The identification of sodium fluoroacetate (Compound 1080) employing NMR spectroscopy (Kirms, MA and Kirms, LM), May, 573

Non-human DNA evidence
Allele frequencies in three STR loci RT24, RT09, and BM1225 in northern New England white-tailed deer (Smith, PF, Den-Danto, D, Smith, KT, Palman, D, and Komnfield, I), May, 673

North Indian populations
Allele frequencies of microsatellite repeat loci in Bhargavas, Chatturvedis, and Brahmins of North India (Agrawal, S, Muller, B, Bharadwaj, U, Bhattachar, S, and Khan, F), May, 678
Distribution of allele frequencies of six STR markers in North Indians (Agrawal, S, Muller, B, Bharadwaj, U, Bhattachar, S, and Khan, F), May, 682
Evaluation of six short tandem repeat loci in forensics: North Indian populations (Agrawal, S, Muller, B, Bharadwaj, U, Bhattachar, S, and Khan, F), May, 686

O

Obituary

Odocoileus virginianus
Allele frequencies in three STR loci RT24, RT09, and BM1225 in northern New England white-tailed deer (Smith, PF, Den-Danto, D, Smith, KT, Palman, D, and Komnfield, I), May, 673

Odontology
Skeletal identification using the frontal sinus region: a retrospective study of 39 cases (Kirk, NJ, Wood, RE, and Goldstein, M), March, 318
The emotional and psychological impact of mass casualty incidents on forensic odontologists (Webb, DA, Sweet, D, and Pretty, IA), May, 539
The use of amalgam powder and calcium hydroxide to recreate a radiopaque image of a lost dental restoration (Shiroma, CY), May, 609
WinID2 versus CAPM4: two computer-assisted dental identification systems (Lewis, C), May, 536

Off-angle distortion
Photographic evidence protocol: the use of digital imaging methods to rectify angular distortion and create life size reproductions of bite mark evidence (Bowers, CM and Jo-world, RJ), Jan., 179

Olanzapine
Fatality from olanzapine induced hyperglycemia (Meatherall, R and Younes, J), July, 893

Oleoresin capsicum
The effect of oleoresin capsicum “pepper” spray inhalation on respiratory function (Chan, T, Vilke, GM, Clausen, J, Clark, RF, Schmidt, P, Snowden, T, and Neuman, T), March, 299

OPD
Extension of the color suite available for chemical enhancement of fingerprints in blood (Caldwell, JP and Kim, ND), March, 332

Oral fluid
The use of oral fluid and sweat wipes for the detection of drugs of abuse in drivers (Samyn, N, De Bock, G, and Verstraete, AG), Nov., 1380

Osteological analysis
Authors’ response (McBride, DG), March, 426

Osteology
Review of: developmental juvenile osteology (Jantz, RL), Sept., 1183

Osteometrics
Interobserver variation of selected postcranial skeletal measurements (Adams, BJ and Byrd, JE), Nov., 1193

Osteon

Osteopenia
Spontaneous fractures in the differential diagnosis of fractures in children (Torwalt, CR, Balanchandra, AT, Youngson, C, and de Nanassy, J), Nov., 1340

Osteoporosis
Experiments in the combustibility of the human body (Christensen, AM), May, 466

P

Paint analysis
Identification of tiny and thin smears of automotive paint following a traffic accident (Giang, YS, Wang, SM, Cho, LL, Yang, CK, and Lu, CC), May, 625

Paint and tape

Paint evidence
Author’s response (Zollinger, K), Sept., 1179

Palm trees
Identification of stolen rare palm trees by soil morphological and mineralogical properties (Lee, BD, Williamson, TN, and Graham, RC), Jan., 190

Panoramic radiographs
The accuracy and precision of third molar development as an indicator of chronological age in Hispanics (Solari, AC and Abramovitch, K), May, 531
Paper formation
A discrimination method for paper by Fourier transform and cross correlation (miyuta, H, Shinozaki, M, Nakayama, T, and Enomae, T), Sept., 1125

Parallax distortion
Photographic evidence protocol: the use of digital imaging methods to rectify angular distortion and create life size reproductions of bite mark evidence (Bowers, CM and Johansen, RJ), Jan., 179

Paraphilias
The case of Jeffrey Dahmer: sexual serial homicide from a neuropsychiatric developmental perspective (Silva, JA, Ferrari, MM, and Leong, GB), Nov., 1347

Particle-size analysis
Identification of stolen rare palm trees by soil morphological and mineralogical properties (Lee, BD, Williamson, TN, and Graham, RC), Jan., 190

Pathology
Bizarre implant fatalities—where is the implant? (Karger, B, Teige, K, and Bajjanowski, T), March, 389
Colchicine poisoning resulting from accidental ingestion of meadow saffron (Colchicum Autumnale) (Sannoh, S, Makino, Y, Kita, T, Kuroda, N, and Shinozuka, T), Nov., 1391
Sharp injury fatalities in New York City (Gill, JR and Catanese, C), May, 554
The combined use of pollen and soil analyses in a search and subsequent murder investigation (Brown, AG, Smith, A, and Elmhurst, O), May, 614

Patient assailants
Characteristics of assaultive patients with schizophrenia versus personality disorder: six year analysis of the assisted staff action program (ASAP) (Flannery jr, RB, Rachlin, S, and Walker, AP), May, 558

Perspective distortion
Photographic evidence protocol: the use of digital imaging methods to rectify angular distortion and create life size reproductions of bite mark evidence (Bowers, CM and Johansen, RJ), Jan., 179

Photolysis
Photographic evidence protocol: the use of digital imaging methods to rectify angular distortion and create life size reproductions of bite mark evidence (Bowers, CM and Johansen, RJ), Jan., 179

Physical match

Unusual contact marks: connecting the hub-cap to the wheel of the car (Novoselsky, Y, Tsach, T, Klein, A, Volkov, N, Shor, Y, and Vinokurov, A), May, 630

Physiopathology
Review of: asphyxia: the physiopathology (Reay, DT), Sept., 1180

Plastic bags
3D measurements on extrusion marks in plastic bags (Berx, V and De Kinder, J), Sept., 976

Polycyclic aromatic hydrocarbons
Development of fluorescent markers using polycyclic aromatic hydrocarbons with vaseline (Kurata, SK, Hirano, H, and Nagai, M), March, 244

Polygamy
A father marries his daughters: a case of incestuous polygamy (Myers, WC and Brasington, SJ), Sept., 1112

Polymarker
Polymarker, HLA-DQA1, and D1S80 allel frequency data in Antioquia (Colombia) population (Buitles, JJ, Moreno, MA, Gaviria, AM, Espinal, C, Cuartas, AE, Figueroa, EE, and Bravo, MJ), July, 902

Polymerase chain reaction
Allele frequencies for 10 STR loci in Istanbul (Turkey) population (Filoglu, G, Abakaligoglu, E, and Atasoy, S), July, 909
Allele frequencies for three STR loci in Turkish population of Kosovo (Cerkezi, AB, Altuncul, DH, Yiikseloglu, H, Abakaligoglu, E, and Atasoy, S), July, 908
Allele frequencies for two STR loci D1S1676, D2S2735 in Chinese population (Gao, YZ, Ying, BW, Hou, YP, Li, YB, Wu, J, Zhang, J, Tang, JP, Yan, J, and Yu, HL), Nov., 1404
Allele frequencies of CODIS STR loci in Chinese population (Ji, Q, Zhang, H, Du, D, Dong, J, Tang, J, Sheng, Y, Liao, J, Wang, Q, and Hou, YJ), Sept., 1143
Allele frequencies of HLAQ&A1 and PM in Istanbul (Turkey) population (Yiikseloglu, H, Altuncul, DH, Filoglu, G, Abakaligoglu, E, and Atasoy, S), July, 907
An improved method for post-PCR purification for mtDNA sequence analysis
Typing of the locus DYS19 from DNA derived from fingernail clippings using PCR Concert™ rapid purification system (Ganigato, DA, Garofalo, MG, Juvenal, GJ, Budowle, B, and Padula, RA), Jan., 175

Validation of a 16-locus fluorescent multiplex system (Krenke, BE, Tereba, A, Anderson, SJ, Buel, E, Culhane, S, Finis, CJ, Terwilliger, CS, Zachtchik, JD, and Sprecher, CJ), July, 773

Western Australian sub-population data for the thirteen AMPF/STR® Profiler Plus™ and CO_Oifer™ STR Loci (Bagdonavicius, A, Turbett, GR, Buckleton, JS, and Walsh, SJ), Sept., 1149

Polymorphism

Allele frequency data for Powerplex 16 loci in four major populations of Orissa, India (Sahoo, S and Kashyap, VK), July, 912

Population genetics

Allele distribution for D21S1435 and D21S2055 loci in two Chinese populations (Liang, W, Zhang, L, Chen, G, Xin, J, Liao, M, and Yu, MY), May, 667

Allele frequencies for 10 STR loci in Istanbul (Turkey) population (Filoglu, G, Abaci-Kafoglu, E, and Atasoy, S), July, 909

Allele frequencies for eight STR loci in a population sample from Sicily (Italy) (Asmundo, A, Sapienza, D, and Crinò, C), March, 408

Allele frequencies for six STR in a Chilean population (Cifuentes, L, Acúa, M, and Sapulevuda, D), July, 904

Allele frequencies for the 13 CODIS STR loci in a sample of southern Croatians (Schanfield, MS, Gabriel, MN, Andelnovic, S, Reynolds, RL, Ladd, C, Lee, HC, and Primorac, D), May, 699

Allele frequencies for the AmpF/STR® profiler loci in a Colombian population (department of Boyaca) (Vargas, CI, Castillo, A, Gil, AM, Pico, AL, and Garcia, O), March, 406

Allele frequencies for three STR loci in Turkish population of Kosovo (Çerkezi, AB, Altunç, DH, Yukseloglu, H, Abaci-Kafoglu, E, and Atasoy, S), July, 908

Allele frequencies for two STR loci D15S1676, D25S2735 in Chinese population (Gao, YZ, Ying, BW, Hou, YP, Li, YB, Wu, J, Zhang, J, Tang, JP, Yan, J, and Yu, HL), Nov., 1404

Allele frequencies of CODIS STR loci in Chinese population (Ji, Q, Zhang, H, Du, H, Dong, J, Tang, J, Sheng, Y, Liao, J, Wang, Q, and Hou, Y), Sept., 1143

Allele frequencies of eight short tandem repeat loci in three Visayas Regional populations of the Philippines (Tabbada, KA, Magnano, MM, Delfin, FC, Calacal, GC, Tan, M, Chu-Ferreon, JY, Halos, SC, and de Ungria, MC), Nov., 1397

Allele frequencies of HLADQA1 and PM in Turkish (Turkey) population (Yukseloglu, H, Altunç, DH, Filoglu, G, Abaci-Kafoglu, E, and Atasoy, S), July, 907

Allele frequencies of Y-chromosome STR locus DYS445 in a Chinese population (Dong, JG, Hou, YP, Li, YB, Wu, J, Tang, JP, and Ji, Q), Sept., 1160

Allele frequency data for Powerplex 16 loci in four major populations of Orissa, India (Sahoo, S and Kashyap, VK), July, 912

Allele frequency distribution for nine fluorescent based STR loci in Tamil population (South India) (Panneerchelvan, S, Vanaja, N, Goud, CV, Sheeba, A, Rao, GV, and Damodaran, C), Jan., 226

Allele frequency distribution of three STR loci (D5SS816, Denta, P and Denta E) in Turkish population (Çakir, AH and Celebioglu, A), Sept., 1154

D1S80 polymorphism in Istanbul (Turkey) (Akgunes, E, Filoglu, G, Yukseloglu, H, Abaci-Kafoglu, E, and Atasoy, S), July, 906


D1S80 polymorphism in Istanbul (Turkey) (Akgunes, E, Filoglu, G, Yukseloglu, H, Abaci-Kafoglu, E, and Atasoy, S), July, 906


Fatal meningitis and encephalitis due to V. and Gafny, R, July, 821

Caucasians and three Asian ethnic groups (Chang, YM, Both, K, and Burgoyne, LA), July, 918

Han Chinese population data for ten STR loci in Changsha, China (Ma, Y, Gong, B, Xia, J, Deng, H, Fan, Q, Li, Q, Dai, H, Wen, S, and Xia, K), March, 404

Distribution of HLA-DQA1 and amelogenin between the Australian Caucasians and three Asian ethnic groups (Chang, YM, Both, K, and Burgoyne, LA), July, 918

Han Chinese population data for ten STR loci in Changsha, China (Ma, Y, Gong, B, Xia, J, Deng, H, Pan, Q, Li, Q, Dai, H, Wen, S, and Xia, K), March, 404

Mitochondrial DNA sequencing of beetle larvae (Nuditidae: Omosita) recovered from human bone (DiZinno, JA, Lord, WD, Collins-Morton, MB, Wilson, MR, and Goff, M), Nov., 1337

A three-bandged allele pattern—analysis and interpretation (Azmir, A, Shpitzen, M, Ozc, C, Motro, U, Meiner, V, and Gafny, R), July, 824

Recovery of genomic DNA from archived PCR product mixes for subsequent multiplex amplification and typing of additional loci: forensic significance for older unresolved criminal cases (Patchett, KL, Cox, KJ, and Burns, DM), July, 786

Reduced volume PCR amplification reactions using the AmpF/STR® Profiler Plus™ kit (Gaines, ML, Wojtkiewicz, PW, Valentine, JA, and Brown, CL), Nov., 1224

The effect of 1,2- indanedione, a latent fingerprint reagent on subsequent DNA profiling (Aozury, M, Zamir, A, Oz, C, and Wiesner, S), May, 586

Trace DNA: a review, discussion of theory, and application of the transfer of trace quantities of DNA through skin contact (Wickenheiser, RA), May, 442
population (Morales, JA, Monterrosa, JC, Alvarez, JC, Entraña, C, Lorente, JA, Lorenci, M, Budowle, B, and Villanueva, E), July, 900

Population data on the three STR loci in the Upper Silesia (Poland) (Raczek, E), Jan., 228


Three Y-chromosome STR frequencies in a population from Equatorial Guinea (central Africa) (Alvarez, S, López-Parrá, AM, Mesa, MA, Jimenez, Y, Herrera, SJ, Banderas, F, Arraztia, A, Rubio, JM, and Arroyo-Pardo, E), Jan., 224

Western Australian sub-population data for the thirteen AMPFSTR® Profile Plus™ and COFiler™ STR Loci (Bagdonavicius, A, Turbett, GR, Buckley, JS, and Walsh, SJ), Sept., 1149

Y-Chromosome STR haplotypes in central-west African immigrant in Spain population (Gamer, JJ, Romero, JL, González, JL, Carvalho, M, Anjos, MJ, Real, FC, Vieira, DN, and Vide, MC), March, 421

Population genetics studies
Author’s response (Margolis-Nunno, H and Kobliński, L), July, 923

Positional asphyxia
The effect of oleoresin capiscum “pepper” spray inhalation on respiratory function (Chan, T, Vilke, GM, Clausen, J, Clark, RF, Schmidt, P, Snowden, T, and Neuman, T), March, 299

Postmortem
Postmortem blood and vitreous humor ethanol concentrations in a victim of a fatal motor vehicle crash (Hardin, GG, March, 402

Postmortem concentrations of citalopram (Anastos, N, McIntyre, IM, Lynch, MJ, and Drummer, OH), July, 882

Postmortem blood
A comparison of carboxyhemoglobin saturation values in postmortem heart blood and peripheral blood specimens (Levine, B, Moore, KA, Titus, JM, and Fowler, D), Nov., 1388

Author’s response (Hardin, GG), Nov., 1405


HbAlc as a postmortem tool to identify glyceric control (Winecker, RE, Hammett-Stabler, CA, Chapman, JF, and Roper-Miller, JD), Nov., 1373

Postmortem chondrocyte damage
Visualization of postmortem chondrocyte damage by vital staining and confocal laser scanning 3D microscopy (Laszczykowski, GE, Aigner, T, Gamedinger, U, Weiler, G, and Bratzke, H), May, 663

Postmortem dental restoration loss
The use of amalgam powder and calcium hydroxide to recreate a radiopaque image of a lost dental restoration (Shiroma, CY), May, 609

Postmortem interval
Decomposition chemistry of human remains: a new methodology for determining the postmortem interval (Vass, AA, Barbich, SA, Sega, G, Caton, J, Sleen, JC, and Synstelien, JA), May, 542

Effect of temperature on development of Liopygia (= Sarcophaga) Argrostrina (Robineau-Desvoidy) (Diptera: Sarcophagidae) and its forensic implications (Grassberger, M and Reiter, C), Nov., 1332

Estimation of postmortem interval from hypoxic inducible levels of vascular endothelial growth factor (Thak-Oo, M, Tanaka, E, Tsuchiya, T, Komato, Y, Honda, K, Yamazaki, K, and Misawa, S), Jan., 186

Posttraumatic stress disorder
Acute dissociative responses in law enforcement officers involved in critical shooting incidents: the clinical and forensic implications (Rivard, JM, Dietz, P, Martell, D, and Widawski, M), Sept., 1093

Powerplex® 1.1
Detection of a primer-binding site polymorphism for the STR locus D16S539 using the Powerplex® 1.1 system and validation of a degenerate primer to correct for the polymorphism (Nelson, MS, Levedakou, EN, Matthews, JR, Early, BE, Freeman, DA, Kuhn, CA, Schecker, CJ, Amin, AS, McElfresh, KC, and Schumm, JW), March, 345

Powerplex® 1.1

Powerplex® 16 STR loci
Genetic study of 15 important STR loci among four major ethnic groups of Bihar, India (Ashma, R and Kashyap, VK), Sept., 1139

Powerplex® 2.1

PPD
Extension of the color suite available for chemical enhancement of fingerprints in blood (Caldwell, JP and Kim, ND), March, 322

Premenstrual dysorphic disorder
PMS, psychosis and culpability: sound or misguided defense? (Downs, LL), Sept., 1083

Premenstrual syndrome
PMS, psychosis and culpability: sound or misguided defense? (Downs, LL), Sept., 1083

Primates
Typing Y chromosome STR haplotypes using redesigned primers (Hou, Y, Zhang, J, Sun, D, Li, Y, Wu, J, Zhang, S, and Prinz, M), Jan., 215

Profiler Plus
Western Australian sub-population data for the thirteen AMPFSTR® Profile Plus™ and COFiler™ STR Loci (Bagdonavicius, A, Turbett, GR, Buckley, JS, and Walsh, SJ), Sept., 1149

Profilerometry
3D measurements on extrusion marks in plastic bags (Berk, V and De Kinder, J), Sept., 976

Propellant
A quantitative comparison of smokeless powder measurements (MacCrehan, WA, Reardon, MR, and Duerew, DL), Nov., 1283

Proto-Australoid
D1S80 population data in eight predominant populations of India (Trivedi, R, Chattopadhyay, P, Dutta, R, Sarkar, N, Sharma, AK, and Kashyap, VK), May, 676

Psuedoephedrine
Enantiomeric separation of methamphetamine and related analogs by capillary zone electrophoresis: intelligence study in routine methamphetamine seizures (Cheng, WC, Lee, WM, Chan, MF, Tsui, P, and Dao, KL), Nov., 1248

Psilocybin
Psychoactive drugs in developmental mushrooms: a case study review (Gross, ST), Nov., 1298
Psychotropic drugs in developmental mushrooms: a case study review (Gross, ST), Nov., 1298

Psychiatry
Pedophilia on the Internet (Deirmenjian, JM), Sept., 1090

Psychological autopsies
Psychological autopsies: the current department of defense effort to standardize training and quality assurance (Ritchie, EC and Gelles, MG), Nov., 1370

Psychological impact
The emotional and psychological impact of mass casualty incidents on forensic odontologists (Webb, DA, Sweet, D, and Pretty, IA), May, 559

Psychology
Forensic implications of biting behavior: a conceptually underdeveloped area of investigation (Webb, DA, Sweet, D, Himman, DL, and Pretty, IA), Jan., 103

Psychopathology
Review of: drug-facilitated sexual assault: a forensic handbook (Logan, BK), Nov., 1411

Population genetics
Distribution of nine STR loci alleles frequencies in a Chinese population (Yu, X, Hu, DY, Zhang, J, Tang, JP, and Hou, YP), Sept., 1147

Pyrolysis
Forensic analysis of ignitable liquids in fire debris by comprehensive two-dimensional gas chromatography (Frysinger, GS and Gaines, RB), May, 471

Pyrolysis
Author’s response (Zollinger, K), Sept., 1179

Quantitative microscopy
Handguns and ammunitions indicators extracted from the GSR analysis (Lebiedzik, J and Johnson, DL), May, 483

Questioned document examination
A discrimination method for paper by Fourier transform and cross correlation (miyata, H, Shinozaki, M, Nakayama, T, and Enomae, T), Sept., 1125

Forensic handwriting examiners’ expertise for signature comparison (Sita, J, Found, B, and Rogers, DK), Sept., 1117

Questioned documents
An unusual rubber stamp case (Moryan, DD), March, 399

Ballpoint pen inks: characterization by positive and negative ion-electrospray ionization mass spectrometry for the forensic examination of writing inks (Ng, LK, Lafontaine, P, and Brazeau, L), Nov., 1238

Does ink age inside of a pen cartridge? (Grim, DM, Siegel, J, and Allison, J), Nov., 1294

Evaluation of laser desorption mass spectrometry and UV accelerated aging of dyes on paper as tools for the evaluation of a questioned document (Grim, DM, Siegel, J, and Allison, J), Nov., 1265

Resonant excitation
Detection of petrol (gasoline) in fire debris by gas chromatography/mass spectrometry/mass spectrometry (GC/MS/MS) (de-Vos, BJ, Fromen, M, Rohwer, E, and Sutherland, DA), July, 736

Restoration
The use of quantitative light-induced fluorescence (QLF) to identify composite restorations in forensic examinations (Pretty, IA, Smith, PW, Edgar, WM, and Higham, SM), July, 831

Restoration of obliterated numbers
Restoration of obliterated painted registration number on vehicle (Thirunavukkarasu, G, Hemalatha, M, and Kuppuswamy, R), March, 374

RT09
Allele frequencies in three STR loci RT24, RT09, and BM1225 in northern New England white-tailed deer (Smith, PF, DenDanto, D, Smith, KT, Palman, D, and Kronfield, I), May, 673

RT24
Allele frequencies in three STR loci RT24, RT09, and BM1225 in northern New England white-tailed deer (Smith, PF, DenDanto, D, Smith, KT, Palman, D, and Kronfield, I), May, 673

RT-PCR
Evaluation of mRNA markers for the identification of menstrual blood (Bauer, M and Patzelt, D), Nov., 1278

Rubber stamp
An unusual rubber stamp case (Moryan, DD), March, 399

Rubber stopper
A method for the determination of syringe needle punctures in rubber stoppers using stereoscopic light microscopy (Platek, SF, Keisler, MA, Ranieri, N, Reynolds, TW, and Crowe, JB), Sept., 986

Safety belts
Children in motor vehicle collisions: Analysis of injury by restraint use and seat location (Switzer, RE. Rink, RD, Corey, TS, and Goldsmith, J), Sept., 1049

Sarcophagidae
Effect of temperature on development of Lioppygia (= Sarcophaga) Argyrostoma (Robineau-Desvoidy) (Diptera: Sarcophagidae) and its forensic implications (Grassberger, M and Reiter, C), Nov., 1332

Scanning electron microscopy (SEM)
Handguns and ammunitions indicators extracted from the GSR analysis (Lebiedzik, J and Johnson, DL), May, 483
Scanning electron microscopy/energy-dispersive spectroscopy
Brake linings: a source of non-GSR particles containing lead, barium, and antimony (Torre, C., Mattutino, G., Vasinio, V., and Robinto, C.), May, 494

Schizophrenia
Characteristics of assaultive patients with schizophrenia versus personality disorder: six year analysis of the assaulted staff action program (ASAP) (Flannery Jr, RB., Rachlin, S. and Walker, AP.), May, 558

Screen-printing ink
Screen-print in ink transfer in a sexual assault case (Amick, JF and Beheime, CW), May, 619

Search strategy

SEM/EDS analysis
The use of SEM/EDS analysis to distinguish dental and osseous tissue from other materials (Ubelaker, DH, Ward, DC, Braz, VS, and Stewart, J.), Sept., 940

Semen
Use of a Y chromosome probe as an aid in the forensic proof of sexual assault (Dziegelewski, M, Simich, JP, and Rittenhouse-Olson, K), May, 601

Semen analysis

Semen stains
Improving the effectiveness of fluorescence for the detection of semen stains on fabrics (Kobus, H, Sileniekis, E, and Scharberg, J), July, 819

Septa
A method for the determination of syringe needle punctures in rubber stoppers using stereoscopic light microscopy (Platek, SF, Keisler, MA, Ranieri, N, Reynolds, TW, and Crowe, JB), Sept., 986

Serial killers
The case of Jeffrey Dahmer: sexual serial homicide from a neuropsychiatric developmental perspective (Silva, JA, Ferrari, MM, and Leong, GB), Nov., 1347

Sex determination

Sex estimation
A test of the Phenix method for the estimation of sex (Ubelaker, DH and Volk, CG), Jan., 19

Sexual abuse
A father marries his daughters: a case of incestuous polygamy (Myers, WC and Brasington, SJ), Sept., 1112

Sexual assault
Use of a Y chromosome probe as an aid in the forensic proof of sexual assault (Dziegelewski, M, Simich, JP, and Rittenhouse-Olson, K), May, 601

Sexual Assault Response Team (SART)
Screen-print in transfer in a sexual assault case (Amick, JF and Beheime, CW), May, 619

Short tandem repeat loci
Allele distribution for D21S1435 and D21S2055 loci in two Chinese populations (Liang, W, Zhang, L, Chen, G, Xin, J, Liao, M, and Yu, MY), May, 667
Allele frequencies for eight STR loci in a population sample from Sicily (Italy) (Asmundo, A, Sapienza, D, and Crinò, C), March, 408
Allele frequencies for six STR in a Chilen population (Cifuentes, L, Acuña, M, and Sepulveda, D), July, 904
Allele frequencies for the AmpFSTR profile loci in a Colombian population (department of Boyaca) (Vargas, CI, Castillo, A, Gil, AM, Pico, AL, and Garcia, O), March, 406
Allele frequencies for two STR loci D1S1676, D2S2735 in Chinese population (Gao, YZ, Ying, BW, Hou, YP, Li, YB, Wu, J, Zhang, J, Tang, JP, Yan, J, and Yu, HL), Nov., 1404
Allele frequencies in three STR loci RT24, RT09, and BM1225 in northern New England white-tailed deer (Smith, PF, DenDanto, D, Smith, KM, Palman, D, and Komfield, I), May, 673
Allele frequencies of eight short tandem repeat loci in three Visayas Regional populations of the Philippines (Tabbada, KA, Magno, MM, Delfin, FC, Calacal, GC, Tan, M, Chu-Ferreon, JY, Halos, SC, and de Urgria, MC), Nov., 1397
Allele frequency data for Powerplex 16 loci in four major populations of Orissa, India (Sahoo, S and Kashyap, VK), July, 912
Detection of a primer-binding site polymorphism for the STR locus D16S539 using the Powerplex® 1.1 system and validation of a degenerate primer to correct for the polymorphism (Nelson, MS, Levedakou, EN, Matthews, JR, Early, BE, Freeman, DA, Kuhn, CA, Sprecher, CJ, Amin, AS, McElfresh, KC, and Schumm, JW), March, 345
Distribution of allele frequencies for two short tandem repeat loci (HUMTHO1 and F13A01) among five Indian population groups (Ghosh, A and Seshadri, M), March, 415
Genotype profile for thirteen tetranucleotide repeat loci and two pentanucleotide repeat loci in four endogamous Tamil population groups of India (Laximi, S, Trevedy, R, and Kashyap, VK), Sept., 1168
Han Chinese population data for ten STR loci in Changsha, China (Ma, Y, Gong, B, Xia, J, Deng, H, Pan, Q, Li, Q, Dui, H, Wen, S, and Xia, K), March, 404
Haplotype frequencies for two new Y-STR loci in Chinese population (Zhang, J, Hou, Y, Tang, J, Li, Y, and Wu, J), Jan., 232
Indian population data for two tetrameric short tandem repeat loci—vWA and D3S1359 (Ghosh, A and Seshadri, M), March, 413
Population data on the three STR loci in the Upper Silesia (Poland) (Raczek, E), Jan., 228
The effect of 1,2-indanedione, a latent fingerprint reagent on subsequent DNA profiling (Azoury, M, Zamir, A, Oz, C, and Wiesner, S), May, 586
Trace DNA: a review, discussion of theory, and application of the transfer of trace quantities of DNA through skin contact (Wickenheiser, RA), May, 442
Validation of a 16-locus fluorescent multiplex system (Krenke, BC, Tereba, A, Anderson, S, Bu, E, Culhane, S, Finis, CJ, Tomsey, CS, Zuchetti, JM, and Sprecher, CJ), July, 773

Short tandem repeat loci
Recovery of genomic DNA from archived PCR product mixes for subsequent multiplex amplification and typing of additional
loci: forensic significance for older unsolved criminal cases (Patchett, KL, Cox, KJ, and Burns, DM), July, 786

Short tandem repeats
A study on four short tandem repeat systems: African immigrant, Portuguese, and Spanish population data (Gamero, JJ, Romero, JL, Gonzalez, JL, Carvalho, M, Anjos, MJ, Real, FC, and Vide, MC), July, 897

Allele frequencies for 10 STR loci in Istanbul (Turkey) population (Filoglu, G, Abaci-Kalofluoglu, E, and Atasoy, S), July, 908

Allele frequencies for three STR loci in Turkish population of Kosovo (Cerkezi, AB, Altunç, DH, Yükseloglgu, H, Abaci-Kalofluoglu, E, and Atasoy, S), July, 909

Allele frequencies for 10 STR loci in Istanbul (Turkey) population (Filoglu, G, Abaci-Kalofluoglu, E, and Atasoy, S), July, 909

Allele frequencies for three STR loci in Turkish population (Qi, Q, Zhang, H, Du, H, Dong, J, Tang, J, Sheng, Y, Liao, J, Wang, Q, and Hou, Y), Sept., 1143

Allele frequency distribution of three STR loci (D55818, Penta D, and Penta E) in Turkish population (Çakir, AH and Çelebioglu, A), Sept., 1154

Distribution of nine STR loci alleles frequencies in a Chinese population (Yu, X, Hu, DY, Zhang, J, Tang, JP, and Hou, YP), Sept., 1147

Online Y-chromosomal short tandem repeat haplotype reference database (YHRD) for U.S. populations (Kaysor, M, Bruier, S, Willuweit, S, Schärdlich, H, Batzer, MA, Zawacki, J, Prinz, M, Roeuer, L, and Stoneking, M), May, 513

STR data for the PowerPlex® 16 loci in Buenos Aires population (Argentina) (Gan-gitano, DA, Garofalo, MG, Juvenal, GJ, Budowle, B, Lorente, JA, and Padula, RA), March, 418

Typing of the locus DYS19 from DNA derived from fingernail clippings using PCR Concert™ rapid purification system (Gan-gitano, DA, Garofalo, MG, Juvenal, GJ, Budowle, B, and Padula, RA), Jan., 175

Western Australian sub-population data for the thirteen AmpliStr™ STR Profiler Plus™ and CoFiler™ STR Loci (Bagdonavicius, A, Turbett, GR, Buckleton, JS, and Walsh, SJ), Sept., 1149

Signature
Forensic handwriting examiners’ expertise for signature comparison (Sita, J, Found, B, and Rogers, DK), Sept., 1117

Signature analysis
Optimum methamphetamine profiling with sample preparation by solid-phase microextraction (Koester, CJ, Andresen, BD, and Grant, PM), Sept., 1002

Site dependence
A comparison of carboxyhemoglobin saturation values in postmortem heart blood and peripheral blood specimens (Levine, B, Moore, KA, Titus, JM, and Fowler, D), Nov., 1388

Skeletal age at death
Application of Lamendin’s adult dental aging technique to a diverse skeletal sample (Prince, DA and Ubelaker, D), Jan., 107

Skeletal age estimation
Variability of the pattern of aging on the human skeleton: evidence from bone indicators and implications on age at death estimation (Schmitt, A, Muraill, P, Cunha, E, and Rougé, D), Nov., 1203

Skeletal anatomy
Review of human skeletal anatomy laboratory manual and workbook (Williams, S and Warren, MW), July, 924

Skeletal measurements
Interobserver variation of selected postcranial skeletal measurements (Adams, BJ and Byrd, JE), Nov., 1193

Skin
Trace DNA: a review, discussion of theory, and application of the transfer of trace quantities of DNA through skin contact (Wickenheiser, RA), May, 442

Skull
Do resemblance ratings measure the accuracy of facial approximation? (Stephan, CN), March, 239

Slip resistance
Utilized coefficient of friction during walking: static estimates exceed measured values (Powers, CM, Burnfield, JM, Lim, P, Brault, JM, and Flynn, JE), Nov., 1303

Smokeless powder
A qualitative comparison of smokeless powder measurements (MacCrehan, WA and Reardon, MR), Sept., 996

A quantitative comparison of smokeless powder measurements (MacCrehan, WA, Reardon, MR, and Duweer, DL), Nov., 1283

Smokeless powders
A gradient reversed phase HPLC procedure for smokeless powder comparison (Westinger, CE and McCord, BR), Jan., 168

Smoking
GC/MS determination of pyrolysate products from diacetylormyline and adulterants of street heroin samples (Brenneisen, R and Hasler, F), July, 885

SNPs
Characterization of the Caucasian haplogroups present in the SWGDAM forensic mtDNA dataset for 1771 human control region sequences (Allard, MW, Miller, K, Wilson, M, Monson, KL, and Budowle, B), Nov., 1215

Melting curve SNP (McSNP) genotyping: a useful approach for diallelic genotyping in forensic science (Ye, J, Parra, E, Sosnoski, DM, Hiester, K, Underhill, PA, and Shriver, MD), May, 593

Social isolation
Discovery of decomposed and mummified corpses in the domestic setting—a marker of social isolation? (Hönigschnabl, S, Schaden, E, Stichenwirth, M, Schneider, B, Klupp, N, Kremier, E, Lehner, W, Yudikil, W, Bauer, G, and Risser, D), July, 837

Sodium fluoroacetate
The identification of sodium fluoroacetate (Compound 1080) employing NMR spectroscopy (Kirms, MA and Kirms, LM), May, 573

Soil
Forensic comparison of soils by bacterial community NDA profiling (Horswell, J, Cordiner, SJ, Maas, EW, Martin, TM, Sutherland, BW, Speir, TW, Ogales, B, and Osborn, AM), March, 350

Soil analyses
The combined use of pollen and soil analyses in a search and subsequent murder investigation (Brown, AG, Smith, A, and Elmhurst, O), May, 614

Soil color
Identification of stolen rare palm trees by soil morphological and mineralogical properties (Lee, BD, Williamson, TN, and Graham, RC), Jan., 190

Soil science
Identification of stolen rare palm trees by soil morphological and mineralogical properties (Lee, BD, Williamson, TN, and Graham, RC), Jan., 190

Solubility test
Identification of tiny and thin smears of automotive paint following a traffic accident (Giang, YS, Wang, SM, Cho, LL, Yang, CK, and Lu, CC), May, 625

Solvent extraction
Stability and detectability of lachrymators and their degradation products in evidence samples (Kataoka, M, Sato, Y, Tsuge, K, and Noami, M), Jan., 44

South Indian population
Y-chromosomal STR haplotypes in two population groups of Kerala in South India (Das, B, Chauhan, PS, and Seshadri, M), May, 690

Spain
Frequency data of nine Y-chromosomal STR loci in a sample from Central Spain (López-Parrá, AM, Alvarez, S, Mesa, MS, Bandrés, F, and Arroyo-Pardo, E), May, 694

Spectroscopic analysis
The identification of sodium fluoroacetate (Compound 1080) employing NMR spectroscopy (Kirms, MA and Kirms, LM), May, 573

Spectroscopy
Classification of narcotics in solid mixtures using principal component analysis and Raman spectroscopy (Ryder, AG), March, 275
Sphenoid sinus
Identification of human skeletal remains by comparison of bony details of the cranium using computerized tomographic (CT) scans (Smith, DR, Limbird, KG, and Hoffman, JM), Sept., 937

Spontaneous fractures
Spontaneous fractures in the differential diagnosis of fractures in children (Torwalt, CR, Balandanda, AT, Youngson, C, and de Nanassy, J), Nov., 1340

Spontaneous human combustion
Experiments in the combustibility of the human body (Christensen, AM). May, 466

Spontaneous ignition thresholds
Chemical analysis of vegetable oils following spontaneous ignition (Coulombre, R). Jan., 195

Stab wounds
Sharp injury fatalities in New York City (Smith, DR, Limbird, KG, and Hoffman, JM), Sept., 937

Stability
Stability and detectability of lachrymators and their degradation products in evidence samples (Katoaka, M, Seto, Y, Tsuge, K, and Noami, M), Jan., 44

Staging
Spousal homicide and the subsequent staging of a sexual homicide at a distant location (Meloy, JR). March, 395

Stalker characteristics
Stalking following the breakup of romantic relationships: characteristics of stalking former partners (Roberts, KA), Sept., 1070

Stalking

Stalking following the breakup of romantic relationships: characteristics of stalking former partners (Roberts, KA), Sept., 1070

Stalking: developing an empirical typology to classify stalkers (Del Ben, K and Frenouw, WJ), Jan., 152

Statistics
Estimation of the quantity of a drug in a consignment from measurements on a sample (Aitken, CGG and Lucy, D). Sept., 968

Interpretation of glass composition measurements: the effects of match criteria on discrimination capability (Koons, RD and Buscaglia, J). May, 505

Stature estimation
New formulae for estimating stature in the Balkans (Ross, AH and Konigsberg, LW), Jan., 165

Stimulants

Stolen paintings

STR
Allele frequencies of microsatellite repeat loci in Bhargava, Chaturvedi, and Brahmins of North India (Agrawal, S, Muller, B, Bharadwaj, U, Bhagnagar, S, and Khan, F). May, 678

Concordance study on 15 STR loci in three major populations of Himalayan State Sikkim (Kashyup, VK, Guha, S, and Trivedi, R). Sept., 1163

Constructing universal multiplex PCR systems for comparative genotyping (Wallin, JM, Holt, CL, Lazaruk, KD, Nguyen, TH, and Walsh, PS). Jan., 52

Distribution of allele frequencies of six STR markers in North Indians (Agrawal, S, Muller, B, Bharadwaj, U, Bhagnagar, S, and Khan, F). May, 682


Evaluation of six short tandem repeat loci in forensics: North Indian populations (Agrawal, S, Muller, B, Bharadwaj, U, Bhagnagar, S, and Khan, F). May, 686

Population data for the STR systems D3S1358, D8S1179, D18S51, D21S11, and the Y-chromosomal DYS385 in a population sample from Lower Franconia (South Germany) (Jung, S and Patzel, D). Sept., 1154

TWGDAM validation of AMPFSTR™ PCR amplification kits for forensic DNA casework (Holt, CL, Buoncristiani, M, Wallin, JM, Nguyen, T, Lazaruk, KD, and Walsh, PS). Jan., 66

STR data
Review of: forensic DNA typing (Sensibaugh, GF), May, 705

STR system
Mitochondrial DNA and STR typing of matter adhering to an earphone (Sco, Y, Uchiyama, T, Matsuda, H, Shimizu, K, Takami, Y, Nakayama, T, and Takahama, K). May, 605

Street heroin
GC/MS determination of pyrolysis products from diaacetylomorphine and adulterants of street heroin samples (Brenmeisen, R and Hasler, F). July, 885

STRs

Subarachnoid hemorrhage
Pseudo-subarachnoid hemorrhage of the head diagnosed by computerized axial tomography: a postmortem study of ten medical examiner cases (Chune, DJ and Smialek, JE). March, 360

Sublimation
Advanced solvent-free application of ninhydrin for detection of latent fingerprints on thermal paper and other surfaces (Schwartz, L and Frenich, J). Nov., 1274

Substance abuse
The use of oral fluid and sweat wipes for the detection of drugs of abuse in drivers (Samyn, N, De Breek, G, and Verstraete, AG). Nov., 1380

Substance abuse detection
Classification of narcotics in solid mixtures using principal component analysis and Raman spectroscopy (Ryder, AG). March, 275

Sudden death
Sudden death due to an unrecognized cardiac hydatid cyst (Malamon-Matti, V, Pappu, L, Vougioulakis, T, Peschos, D, Kastrinos, N, Gekas, G, Sideris, D, and Agmassis, N). Sept., 1062

Sudden death due to undiagnosed Wilms’ tumor in an adult (Oeberst, J, Barnard, JJ, and Prahlow, JA). May, 638

Sudden Infant Death Syndrome (SIDS)
Failure to detect elevated levels of carboxyhemoglobin in infants dying from SIDS (Meny, RG, Vreman, HJ, Stevenson, DK, Hauck, FR, Donoghue, ER, Smialek, JE, Fowler, DR, and Zielke, HR). May, 660

Suicide
Cervical fracture, decapitation, and vehicle-assisted suicide (Byard, RW and Gilbert, JD). March, 392

Psychological autopsies: the current departure of defense effort to standardize training and quality assurance (Ritchie, EC and Gelles, MG). Nov., 1370

Suicide by drowning: a 20-year review (Wirthwein, DP, Barnard, JJ, and Prahlow, JA). Jan., 131

Suicide on death row (Lester, D and Tartaro, C). Sept., 1108

Unusual suicidal smothering by means of multiple loops of adhesive gummed tape (Di Vella, G, Neri, M, and Belviso, M). May, 645

Sweat
The use of oral fluid and sweat wipes for the detection of drugs of abuse in drivers (Samyn, N, De Breek, G, and Verstraete, AG). Nov., 1380

TWGDAM forensic mtDNA dataset
Characterization of the Caucasian haplogroups present in the TWGDAM forensic mtDNA dataset for 1771 human control region sequences (Allard, MW, Miller, K, Wilson, M, Monson, KL, and Budowie, B). Nov., 1215
SWGMAT
Author’s response (Zollinger, K). Sept., 1179

Synchrotron radiation

Syringe

T

Talipes equinovarus
Identification of decomposed human remains from radiographic comparisons of an unusual foot deformity (Sudimack, JR, Lewis, BJ, Rich, J, Dean, DE, and Fardal, PM). Jan., 218

Ternary diagrams
Changes in composition of ballpoint pen inks on aging in darkness (Andrasko, J). March, 324

Text book
Review of: introduction to forensic anthropology: a textbook (Rowe, WF). Nov., 1

Third molar
The accuracy and precision of third molar development as an indicator of chronological age in Hispanics (Solari, AC and Abramovitch, K). May, 531

THO1
Allele frequency data for Powerplex 16 loci in four major populations of Orissa, India (Sahoo, S and Kashyap, VK). July, 912


Concordance study on 15 STR loci in three major populations of Himalayan State Sikkim (Kashyap, VK, Guha, S, and Trivedi, R). Sept., 1163

Genotype profile for thirteen tetranucleotide repeat loci and two pentanucleotide repeat loci in four endogamous Tamil population groups of India (Laximi, S, Trevedi, R, and Kashyap, VK). Sept., 1168

The effect of 1,2-indanedione, a latent fingerprint reagent on subsequent DNA profiling (Azoury, M, Zamir, A, Oz, C, and Wiesner, S). May, 586

Recovery of genomic DNA from archived PCR product mixes for subsequent multiplex amplification and typing of additional loci: forensic significance for older unsolved criminal cases (Patchett, KL, Cox, KJ, and Burns, DM). July, 786

Threat assessment

Three-dimensional transformation
A 3-D transformation to improve the legitimacy of license plate numbers (Wen, CY, Yu, CC, and Han, ZD). May, 578

Tibetan

Time since death

Tissue composition

Toolmarks
Unusual contact marks: connecting the hubcap to the wheel of the car (Novoseisky, Y, Tsach, T, Klein, A, Volkov, N, Shor, Y, and Vinokurov, A). May, 630

Tooth formation
The accuracy and precision of third molar development as an indicator of chronological age in Hispanics (Solari, AC and Abramovitch, K). May, 531

Toxicology
Colchicine poisoning resulting from accidental ingestion of meadow saffron (Colchicum autumnale) (Sannohe, S, Makino, Y, Kita, T, Kuroda, N, and Shinozuka, T). Nov., 1391

Detection of ketosis in vitreous at autopsy after embalming (Steinhauer, JR, Volk, A, Hardy, R, Konrad, R, Daly, T, and Robinson, CA). Jan., 221

Drug-facilitated sexual assault
Detection of ketosis in vitreous at autopsy after embalming (Steinhauer, JR, Volk, A, Hardy, R, Konrad, R, Daly, T, and Robinson, CA). Jan., 221

Drug-facilitated sexual assault
Drug-facilitated sexual assault involving gamma-hydroxybutyric acid (Stillwell, ME). Sept., 1133


TPOX

The effect of 1,2-indanedione, a latent fingerprint reagent on subsequent DNA profiling (Azoury, M, Zamir, A, Oz, C, and Wiesner, S). May, 586

Trace analysis

Trace evidence
Interpretation of glass composition measurements: the effects of match criteria on discrimination capability (Koons, RD and Buscaglini, J). May, 505

Screen-print in ink transfer in a sexual assault case (Amick, JF and Beheim, CW). May, 619

Tractor-trailer drivers

Transportation

Turkey
Allele frequencies for 10 STR loci in Istanbul (Turkish) population (Filoglu, G, Abaci-Kalfoglu, E, and Anasso, S). July, 909

Distribution of HLA-DQA1 and ampltupe PM locus alleles in Aegean region of Turkey (Çakir, AH, Simsek, F, and Alunbas, S). May, 710

Turkish population sample

Typology
Stalking: developing an empirical typology to classify stalkers (Del Ben, K and Fremouw, WJ). Jan., 152

U

Ultrasound
In vivo facial tissue depth measurements for White British children (Wilkinson, CM). May, 459
Unemployment
Discovery of decomposed and mummified corpses in the domestic setting—a marker of social isolation? (Höngschnabl, S, Schaden, E, Stichenwirth, M, Schneider, B, Klupp, N, Kremier, E, Lehner, W, Vycudilik, W, Bauer, G, and Risser, D), July, 837

Video image
An approach to individual video camera identification (Kurosawa, K, Kuroki, K, and Saitho, N), Jan., 97

Video recording
Gunshot location through recorded sound: a preliminary report (Pregliasco, RG and Martínez, EN), Nov., 1309

Virtopsy
Charred body: virtual autopsy with multislice computed tomography and magnetic resonance imaging (Thali, MJ, Yen, K, Plattner, T, Schweizer, W, Vock, P, Ozdoba, C, and Dinnhöfer, R), Nov., 1326

Virtual autopsy
Charred body: virtual autopsy with multislice computed tomography and magnetic resonance imaging (Thali, MJ, Yen, K, Plattner, T, Schweizer, W, Vock, P, Ozdoba, C, and Dinnhöfer, R), Nov., 1326

Visualization
Forensic radiology with cross-section modalities: spiral CT evaluation of a knife wound to the aorta (Thali, M, Schwab, CM, Taite, K, Dinnhöfer, R, and Vock, P), Sept., 1041

Vitreous
Detection of ketosis in vitreous at autopsy after embalming (Steinhauer, JR, Volk, A, Hardy, R, Konrad, R, Daly, T, and Robinson, CA), Jan., 221

Vitreous humor
Author’s response (Hardin, GG), Nov., 1405

VNTR
Allele frequencies of D1S80 locus in the Bihars, a primitive Indian tribal population from Patallokot, India (Biswas, R and Giroti, R), Nov., 1403

vWA
Genotype profile for thirteen tetranucleotide repeat loci and two pentanucleotide repeat loci in four endogamous Tamil population groups of India (Laxini, S, Trevedi, R, and Kashyap, VK), Sept., 1168
The effect of 1.2-indanedione, a latent fingerprint reagent on subsequent DNA profiling (Azoury, M, Zamir, A, Oz, C, and Wiesner, S), May, 586

Wax
Analysis of artificial fireplace logs by high temperature gas chromatography (Kuk, RJ), Nov., 1288

Wilms’ tumor
Sudden death due to undiagnosed Wilms’ tumor in an adult (Oeberst, JL, Barnard, JJ, and Prabhau, JA), May, 638

Wounds
Fetal gunshot wound characteristics (Catanese, CA and Gilmore, K), Sept., 1067

X

X-ray analyses
The use of amalgam powder and calcium hydroxide to recreate a radiopaque image of a lost dental restoration (Shiroma, CY), May, 609

Xylene

Y

Y chromosome
Distribution of DYS19, DYS389 I, DYS389 II, DYS390 alleles in a southern Italian population sample (Di Nunno, N, Baldassarri, SL, Di Nunno, C, Boninfante, B, Guanti, G, Forleo, G, and Resta, N), March, 417
DYS19, DYS385, DYS389, (I and II), DYS390, DYS391, DYS393 haplotypes in a population sample from Catalonia (North-East Spain) (Gene, M, Pique, E, Borrego, N, Ortega, M, Xifró, A, Hugue, E, Moreno, P, and Corbella, J), Sept., 1156
Use of a Y chromosome probe as an aid in the forensic proof of sexual assault (Dziegielewski, M, Simich, JP, and Rittenhouse-Olson, K), May, 601

Y chromosome DNA

Y chromosome probe

Y short tandem repeats
Distribution of DYS391, DYS392, DYS393, DYS385, alleles in a Southern Italian population sample (DiNunno, N, Baldassarri, SL, DiNunno, C, Boninfante,
B. Guanti, G. Forleo, G. and Resta, N), July, 911

**Y STR haplotypes**
Y-chromosomal STR haplotypes in two population groups of Kerala in South India (Das, B, Chauhan, PS, and Seshadri, M), May, 692

**Y-chromosomal haplotypes**
Population database of Y-chromosomal haplotypes at five microsatellites among two distinct ethnic groups of Western India (Das, B, Chauhan, PS, and Seshadri, M), May, 692

**Y-chromosomal STRs**
Allele frequency distribution at five Y-chromosomal short tandem repeat loci among five distinct ethnic groups of India (Das, B, Chauhan, PS, and Seshadri, M), March, 410

**Y-chromosome**

Y-Chromosome STR haplotypes in central-west African immigrant in Spain population sample (Gamero, JJ, Romero, JL, González, JL, Carvalho, M, Anjos, MI, Real, FC, Vieira, DN, and Vide, MC), March, 421