

Journal of Forensic Sciences

Subject Index to Volume 49

2004

A

Accident

Death by chainsaw: fatal kickback injuries to the neck (Koehler, SA, Luckasevic, TM, Rozin, L, Shakir, A, Ladham, S, Omalu, B, Dominick, J, and Wecht, CH), March, 345

Accident investigation

Review of: investigation and interpretation of black box data in automobiles (McElroy, RC), Jan., 196

Review of: vehicular accident investigation and reconstruction (Batterman, SC), Sept., 1144

Addiction

Use of MDA (the Love Drug) and methamphetamine in Toronto by unsuspecting users of Ecstasy (MDMA) (Kalasinsky, KS, Hugel, J, and Kish, SJ), Sept., 1106

Adhesive lifter

A possible source of reference DNA from archived adhesive lifters (Zamir, A, Oz, C, Wolf, E, Vinokurov, A, and Glattstein, B), Jan., 68

Adipocere

A preliminary investigation of the stages of adipocere formation (Forbes, SL, Stuart BH, Dadour, IR, and Dent, BB), May, 566

Age at death

Anthropological data in individualization of skeletal remains from a forensic context in Kosovo—a case history (Djuric, MP), May, 464

Age determination by teeth

Precision and reliability of pulp/tooth area ratio (RA) of second molar as indicator of adult age (Cameriere, R, Ferrante, L, and Cingolani, M), Nov., 1320

Variations in pulp/tooth area ratio as an indicator of age: a preliminary study (Cameriere, R, Ferrante, L, and Cingolani, M), March, 317

Age estimation

Comparison of age estimated from degree of racemization of aspartic acid, glutamic acid and alanine in the femur (Ohtani, S, Yamada, Y, Yamamoto, T, Arany, S, Gonmori, K, and Yoshioka, N), May, 441

Dental maturity curves in Finnish children: Demirjian's method revisited and polynomial functions for age estimation (Chaillet, N, Nystrom, M, Kataja, M, and Demirjian, A), Nov., 1324

Dental maturity in South France: a comparison between Demirjian's method and polynomial functions (Chaillet, N and Demirjian, A), Sept., 1059

Fetal visceral maturation: a useful contribution to gestational age estimation in human fetuses (Piercecchi-Marti, MD, Adalian, P, Liprandi, A, Figarella-Branger, D, Dutour, O, and Leonetti, G), Sept., 912

The determination of male adult age at death by central and posterior coxal analysis—a preliminary study (Telmon, N, Rissech, C, Malgosa, A, Rougé, D, and Rouge-Maillart), March, 208

Aliphatic content

Aromatic content in medium range distillate products. Part I: an examination of various liquids (Dolan, JA and Stauffer, E), Sept., 992

Allele frequencies

Allele Frequencies for two new Y-chromosome STR Loci DYS607 in Chinese Han population (Shanxi area) (Zhang, GQ, Yun, KM, Zhang, XY, Wang, Y, and Wang, YY), May, 630

Genetic analysis of large data sets of North American Black, Caucasian and Hispanic populations at 13 CODIS STR loci (Einum, DD and Scarpetta, M), Nov., 1385

Polymorphism data at DYS385 locus in five ethnic groups from Kerala in Southern West India (Das, B and Seshadri, M), Jan., 181

Population data of the Cofiler STR loci in Koreans (Han, GR, Kwon, JS, Yang, YS, Choi, JH, Kim, CY, and Shin, KJ), Jan., 176

Ambient temperature

The effect of time after body discovery on the accuracy of retrospective weather station ambient temperature corrections in forensic entomology (Archer, MS), May, 553

Amelogenin

Erroneous gender identification by the amelogenin sex test (Michael, A and Brauner, P), March, 258

Typing of XY (male) genotype from malignant neoplastic tissue by the amelogenin-based sex test (Vauhkonen, H, Hedman, M, Vauhkonen, M, Sipponen, P, and Sajantila, A), March, 222

Amphetamine

Distribution and optical purity of methamphetamine found in toxic concentration in a civil aviation accident pilot fatality (Chaturvedi, AK, Cardona, PS, Soper, JW, and Canfield, DV), July, 832

Use of MDA (the Love Drug) and methamphetamine in Toronto by unsuspecting users of Ecstasy (MDMA) (Kalasinsky, KS, Hugel, J, and Kish, SJ), Sept., 1106

Ancestry

Erratum/correction of Frudakis et al. A classifier for the SNP-based inference of ancestry. *J Forensic Sci* 2003 July;48(4):771–82 (Frudakis, T), Sept., 1145

ANFO

New developments in SPME Part 2: analysis of ammonium nitrate-based explosives (Brown, H, Kirkbride, KP, Pigou, PE, and Walker, GS), March, 215

Anthropometry

The belated autopsy and identification of an eighteenth century naval hero—the saga of John Paul Jones (Rogers, NL, Field, K, Froede, RC, and Towne, B), Sept., 1036

Anticoagulant therapy

Motor-vehicle collision-related death due to delayed-onset subarachnoid hemorrhage associated with anticoagulant therapy (Lopez, AE, Barnard, JJ, White, CL, Oeberst, JL, and Prahlow, JA), July, 807

ApoB 3' VNTR

Population genetic data at two minisatellites (D19S20 and APOB 3' VNTR) between two tribal populations from central India (Das, B and Seshadri, M), Nov., 1376

Arson

Comparison of gasolines using gas chromatography-mass spectrometry and target ion response (Barnes, AT, Dolan, JA, Kuk, RJ, and Siegel, JA), Sept., 1018

The evaluation of the extent of transporting or "tracking" an identifiable ignitable liquid (gasoline) throughout fire scenes during the investigative process (Armstrong, A, Babrauskas, V, Holmes, DL, Martin, C, Powell, R, Riggs, S, and Young, LD), July, 741

Art authentication

A selection of some of Dr. McCrone's high and low profile cases in forensic analysis of art (Stoney, DA), March, 280

Ascorbic acid

Identification of ascorbic acid and its degradation products in black powder substitutes (Goodpaster, JV and Keto, RO), May, 523

Asphyxia

The significance of pulmonary interstitial emphysema in live birth determination (Lavezzi, WA, McKenna, BJ, and Wolf, BC), May, 546

Assassination

A research review of public figure threats, approaches, attacks, and assassinations in the United States (Meloy, JR, James, DV, Farnham, FR, Mullen, PE, Pathe, M, Darnley, B, and Preston, L), Sept., 1086

Atmospheric pressure chemical ionization

Highly sensitive screening method for nitroaromatic, nitramine and nitrate ester explosives by high performance liquid chromatography-atmospheric pressure ionization-mass spectrometry (HPLC-API-MS) in forensic applications (Xu, X, de Craats, AM, and de Bruyn, P), Nov., 1171

Atypical firearms

Suicide with a butcher's bolt (Viola, L, Costantinides, F, Di Nunno, C, Battista, GM, and Di Nunno, N), May, 595

Auricular surface

Reconsidering the auricular surface as an indicator of age at death (Osborne, DL, Simmons, TL, and Nawrocki, SP), Sept., 905

Autopsy

Review of: color atlas of the autopsy (Davis, GG), Nov., 1394

B**Bacillus subtilis**

Stable isotope ratios as a tool in microbial forensics—Part 1. Microbial isotopic composition as a function of growth medium (Kreuzer-Martine, HW, Chesson, LA, Lott, MJ, Dorigan, JV, and Ehleringer, JR), Sept., 954

Bacteria

Stable isotope ratios as a tool in microbial forensics—Part 1. Microbial isotopic composition as a function of growth medium (Kreuzer-Martine, HW, Chesson, LA, Lott, MJ, Dorigan, JV, and Ehleringer, JR), Sept., 954

Ballistics imaging

Linking crime guns: the impact of ballistics imaging technology on the productivity of the Boston Police Department's Ballistics Unit (Braga, AA and Pierce, GL), July, 701

Ballistics measurement

NIST bullet signature measurement system for RM (reference material) 8240 standard bullets (Ma, L, Song, J, Whitenton, E, Vorburger, T, Zhou, J, and Zheng, A), July, 649

Ballpoint pen ink analysis

Dating of ballpoint pen ink (Hofer, R), Nov., 1353

Berry aneurysm

Homicidal cerebral artery aneurysm rupture (Prahlow, JA), Sept., 1082

Biological agents

Stable isotope ratios as a tool in microbial forensics—Part 2. Isotopic variation among different growth media as a tool for sourcing origins of bacterial cells or spores (Kreuzer-Martine, HW, Chesson, LA, Lott, MJ, Dorigan, JV, and Ehleringer, JR), Sept., 961

BioMek®

Application of the BioMek® 2000 laboratory automation workstation and the DNA IQ™ system to the extraction of forensic casework samples (Greenspoon, SA, Ban, JD, Sykes, K, Ballard, EJ, Edler, SS, Baisden, M, and Covington, BL), Jan., 29

Biterrorism

Stable isotope ratios as a tool in microbial forensics—Part 2. Isotopic variation among different growth media as a tool for sourcing origins of bacterial cells or spores (Kreuzer-Martine, HW, Chesson, LA, Lott, MJ, Dorigan, JV, and Ehleringer, JR), Sept., 961

Bioweapons

Stable isotope ratios as a tool in microbial forensics—Part 2. Isotopic variation among different growth media as a tool for sourcing origins of bacterial cells or spores (Kreuzer-Martine, HW, Chesson, LA, Lott, MJ, Dorigan, JV, and Ehleringer, JR), Sept., 961

Bite mark analysis

A comparison between direct and indirect methods available for human bite mark analysis (Kouble, RF and Craig, GT), Jan., 111
Bite mark or bottle top? (James, H and Cirillo, GN), Jan., 119

Bitemark analysis

Old dogs can learn new tricks—a new application of the ABFO #2 scale (Kaminski, JA), Nov., 1332

Black box data

Review of: investigation and interpretation of black box data in automobiles (McElroy, RC), Jan., 196

Black powder substitutes

Identification of ascorbic acid and its degradation products in black powder substitutes (Goodpaster, JV and Keto, RO), May, 523

Bloody impression lifters

A method for impregnating nylon transfer membranes with leucocrystal violet for enhancing and lifting bloody impressions (Michaud, AL and Brun-Conti, L), May, 511

Bloody impressions

A method for impregnating nylon transfer membranes with leucocrystal violet for

enhancing and lifting bloody impressions (Michaud, AL and Brun-Conti, L), May, 511

Body fluid identification

Lugol's test reexamined again: buccal cells (Jones Jr., EL and Leon, JA), Jan., 64

Body mass index (BMI)

Nutritional status of deceased illicit drug addicts in Stockholm, Sweden—a longitudinal medico-legal study (Rajs, J, Pettersson, A, Thiblin, I, Olsson-Mortlock, C, Fredriksson, A, and Eksborg, S), March, 320

Bone biomechanics

Understanding rib fracture patterns: incomplete and buckle fractures (Love, JC and Symes, SA), Nov., 1153

Bone mass

Cremation weights in East Tennessee (Bass, WM and Jantz, RL), Sept., 901

Brain swelling

Authors' response (Andrews, JM and Itabashi, HH), July, 871

Brainstem neoplasm

Sudden unexpected death due to a brainstem glioma in an adult (Dolinak, D, Matshes, E, and Waghray, R), Jan., 128

Breath tests

Effect of eight solvents on ethanol analysis by Dräger 7110 evidential breath analyzer (Laakso, O, Pennanen, T, Himberg, K, Kuitunen, T, and Himberg, JJ), Sept., 1113

Breath-alcohol analysis

The effect of breath freshener strips on two types of breath alcohol testing instruments (Moore, RL and Guillen, J), July, 829

Buccal cells

Lugol's test reexamined again: buccal cells (Jones Jr., EL and Leon, JA), Jan., 64

Bullet signature

NIST bullet signature measurement system for RM (reference Material) 8240 standard bullets (Ma, L, Song, J, Whitenton, E, Vorburger, T, Zhou, J, and Zheng, A), July, 649

Burned bone

Identification of traumatic injury in burned cranial bone: an experimental approach (Pope, EJ and Smith, OC), May, 431

Butcher's bolt

Suicide with a butcher's bolt (Viola, L, Costantinides, F, Di Nunno, C, Battista, GM, and Di Nunno, N), May, 595

C**Cannabis sativa**

Establishing the rDNA IGS structure of cannabis sativa (Hsieh, HM, Hou, RJ, Chen, KF, Tsai, LC, Liu, SW, Liu, KL, Linacre, A, and Lee, JC), May, 477

Capillary electrophoresis

Alleles responsible for ABO phenotype-genotype discrepancy and alleles in individuals with a weak expression of A or B antigens (Mizuno, N, Ohmori, T, Sekiguchi, K, Kato, T, Fujii, K, Shiraishi, T, Kasai, K, Sato, H, and Fujii, T), Jan., 21

Capsaicin

Visualization and LC/MS analysis of colorless pepper sprays (Vavett, V, Waninger, EM, Krutak, JJ, and Eckenrode, BA), May, 469

Carbon monoxide exposure

The application of NIST's fire dynamics simulator to the investigation of carbon monoxide exposure in the deaths of three Pittsburgh fire fighters (Christensen, AM and Icove, DJ), Jan., 104

Case histories

Review of: encyclopedia of forensic science (Ballou, S), July, 894

CD4

Molecular genetic analysis of TPO and CD4 Loci between two endogamous ethnic groups of Maharashtra in Western India (Das, B and Seshadri, M), July, 861

Central nervous system

Commentary on: Andrews, JM, et al. Central nervous system consequences of an unusual body disposal strategy: case report and brief experimental investigation, *J Forensic Sci* 2003;48(5):1153-1157 (Heggtveit, HA), July, 870

Cetyltrimethylammonium bromide (CTAB)

A simple and efficient method for extracting DNA from old and burned bone (Ye, J, Ji, A, Parra, EJ, Zheng, XF, Jiang, CT, Zhao, XC, Hu, L, and Tu, Z), July, 754

Chainsaw

Death by chainsaw: fatal kickback injuries to the neck (Koehler, SA, Luckasevic, TM, Rozin, L, Shakir, A, Ladham, S, Omalu, B, Dominick, J, and Wecht, CH), March, 345

Charred body

Unusual characteristic patterns of postmortem injuries (Asamura, H, Takayanagi, K, Ota, M, Kobayashi, K, and Fukushima, H), May, 592

Chemical microscopy

Remembering Walter C. McCrone—scientist, mentor, leader and friend (Reffner, JA), March, 265

Child abuse

Estimation of caloric deficit in a fatal case of starvation resulting from child neglect (Nagao, M, Maeno, Y, Koyama, H, Seko-Nakamura, Y, Monma-Ohtaki, J, Iwasa, M, Zhe, LX, Kawashima, N, and Yano, T), Sept., 1073

Chinese Han population

Allele frequencies for two new Y-chromosome STR loci DYS607 in Chinese Han population (Shanxi Area) (Zhang, GQ, Yun, KM, Zhang, XY, Wang, Y, and Wang, YY), May, 630

Chinese population

Allele frequencies of Y-chromosome STR loci DYS463 and DYS467 in a Chinese population (Wang, XD, Dai, HL, Hou, YP, Zhu, QF, Zhang, HJ, Li, YB, Wu, J, Zhang, J, and Deng, JQ), May, 632

Citalopram

Postmortem citalopram concentrations: alone or along with other compounds (Segura, LJ and Bravo, B), July, 814

Clandestine laboratories

Review of: forensic investigation of clandestine laboratories (Cason, TD), July, 886

Classification

Erratum/Correction of Pitts SJ and Thomson CI. Analysis and classification of common vegetable oils. *J Forensic Sci* 2003 Nov;48(6):1293-1297. (Pitts, SJ and Thomson, CI), Sept., 1147

Clothing and other fabrics

Subsampling and preparing forensic samples for pollen analysis (Horrocks, M), Sept., 1024

Coca java

Review of: a history of cocaine: the mystery of coca java and the kew plant (Isenschmid, DS), July, 890

Cocaine

Review of: a history of cocaine: the mystery of coca java and the kew plant (Isenschmid, DS), July, 890

CODIS

Authors' response (Chakraborty, R, Lee, HS, and Budowle, B), Nov., 1395
The application of an automated allele concordance analysis system (compare callssm) to ensure the accuracy of single source STR DNA profiles (Ryan, JH, Barrus, JK, Budowle, B, Shannon, CM, Thompson, VW, and Ward, BE), May, 492

Cofiler STRs

Population data of the Cofiler STR loci in Koreans (Han, GR, Kwon, JS, Yang, YS, Choi, JH, Kim, CY, and Shin, KJ), Jan., 176

Color atlas

Review of: color atlas and manual of microscopy for criminalists, chemists, and conservators (Palenik, S), Sept., 1142

Review of: color atlas of the autopsy (Davis, GG), Nov., 1394

Colposcopy

A mobile system for postmortem genital examinations with colposcopy: SART-TO-GO (Crowley, SR), Nov., 1299

Co-morbidity

Treatment of paraphilia in young adults with leuprolide: a preliminary case report series (Saleh, FM, Niel, T, and Fishman, MJ), Nov., 1343

Computer forensics

Defining event reconstruction of digital crime scenes (Carrier, BD and Spafford, EH), Nov., 1291

Contaminants

The evaluation of the extent of transporting or "tracking" an identifiable ignitable liquid (gasoline) throughout fire scenes during the investigative process (Armstrong, A, Babrauskas, V, Holmes, DL, Martin, C, Powell, R, Riggs, S, and Young, LD), July, 741

Contamination

Development of a simulation model to assess the impact of contamination in casework using STRs (Gill, P and Kirkham, A), May, 485

Correctional psychology

Assault in prison and assault in prison psychiatric treatment (Young, MH, Justice, JV, and Erdberg, P), Jan., 141

Cosmetics

The evidential value of cosmetic foundation smears in forensic casework (Gordon, A and Coulson, S), Nov., 1244

Counterfeited banknotes

Fingerprint detection on counterfeit US banknotes: the importance of preliminary paper examination (Azoury, M, Cohen, D, Himberg, K, Qvintus-Leino, P, Saari, T, and Almog, J), Sept., 1015

Courtroom testimony

Review of: cross-examination: the comprehensive guide for experts (DeHaan, JD), July, 891

Cranial sutures

Expert testimony and positive identification of human remains through cranial suture patterns (Rogers, TL and Allard, TT), March, 203

Cremation

Cremation weights in East Tennessee (Bass, WM and Jantz, RL), Sept., 901

Crime scene

Evaluation of iodine-benzoflavone and ruthenium tetroxide spray reagents for the detection of latent fingerprints at the crime scene (Flynn, K, Maynard, P, Du Pasquier, E, Lennard, C, Stoilovic, M, and Roux, C), July, 707

Crime scene memorabilia

Crime scene ethics: souvenirs, teaching material, and artifacts (Rogers, TL), March, 307

Criminal justice

The impact of anti-stalking training on front line service providers: using the

anti-stalking training evaluation protocol (A.S.T.E.P.) (Harmon, RB, O'Connor, M, Forcier, A, and Collins, M), Sept., 1050

Criminalistics

Gunshot residue particle velocity and deceleration (De Forest, P, Martir, K, and Pizzola, PA), Nov., 1237

Identification of traumatic injury in burned cranial bone: an experimental approach (Pope, EJ and Smith, OC), May, 431

Cross-examination

Review of: cross-examination: the comprehensive guide for experts (DeHaan, JD), July, 891

CSF1PO

Eastern Chinese population data on four STR forensic loci: CSF1PO, TH01, TPOX, vWA (Gao, YZ, Xia, SX, Wang, ZF, Zhang, ZX, and Bian, SZ), July, 838

Cyanide

Suicide by cyanide: 17 deaths (Gill, JR, Marker, EM, and Stajic, M), July, 826

D

D16S539

Population genetics of eleven STR loci in the State of Sergipe, Northeastern Brazil (Pimentel, BJ, de Azevedo, DA, and da Silva, LA), March, 402

D19S20

Population genetic data at two minisatellites (D19S20 and APOB 3' VNTR) between two tribal populations from central India (Das, B and Seshadri, M), Nov., 1376

D3S1358

Population genetics for three STR loci in the population from southern China (Ye, QS and Tang, JP), Nov., 1370

D5S2845

Allele frequency distribution of STR loci D5S2848 in four populations (Xu, Y, Lv, M, Liang, W, Gou, H, and Zhang, L), Nov., 1371

D5S818

Population genetics for three STR loci in the population from southern China (Ye, QS and Tang, JP), Nov., 1370

D8S1179

Population genetics for three STR loci in the population from southern China (Ye, QS and Tang, JP), Nov., 1370

D-aspartic acid

Comparison of age estimated from degree of racemization of aspartic acid, glutamic acid and alanine in the femur (Ohtani, S, Yamada, Y, Yamamoto, T, Arany, S, Gonmori, K, and Yoshioka, N), May, 441

Daubert

The impact of Daubert: implications for testimony and research in forensic anthropology (and the use of frontal sinuses in

personal identification) (Christensen, AM), May, 427

Daubert factors

Expert testimony and positive identification of human remains through cranial suture patterns (Rogers, TL and Allard, TT), March, 203

Death

Accidental insulin overdose (Batalis, N and Prahlow, JA), Sept., 1117

Methadone-related deaths in Palm Beach County (Wolf, BC, Lavezzi, WA, Sullivan, LM, and Flannagan, LM), March, 375

Review of: forensic pathology (2nd edition) (Bell, MD), July, 887

Review of: sex-related homicide and death investigation: practical and clinical perspectives (Davis, GJ), July, 873

Tramadol (Ultram[®]) concentrations in death investigation and impaired driving cases and their significance (Clarkson, JE, Lacy, JM, Fligner, CL, Thiersch, N, Howard, J, Harruff, RC, and Logan, BK), Sept., 1101

Death investigation

Mitochondrial DNA and STR analyses of maggot crop contents: effect of specimen preservation technique (Linville, JG, Hayes, J, and Wells, JD), March, 341

Deaths

Death by chainsaw: fatal kickback injuries to the neck (Koehler, SA, Luckasevic, TM, Rozin, L, Shakir, A, Ladham, S, Omalu, B, Dominick, J, and Wecht, CH), March, 345

Decipherment

Comparison of near infrared light photography and middle infrared light photography for deciphering obliterated writings (Sugawara, S), Nov., 1349

Degraded DNA

A study on the effects of degradation and template concentration on the amplification efficiency of the STR miniplex primer sets (Chung, DT, Drabek, J, Opel, KL, Butler, JM, and McCord, BR), July, 733

Delayed death

Motor-vehicle collision-related death due to delayed-onset subarachnoid hemorrhage associated with anticoagulant therapy (Lopez, AE, Barnard, JJ, White, CL, Oeberst, JL, and Prahlow, JA), July, 807

Deliberate self-harm

Discriminating deliberate self-harm (DSH) in young prison inmates through personality disorder (Mohino, JS, Ortega-Monasterio, GL, Planchat, LM, Cuquerella, FA, Talón, T, and Macho, JL), Jan., 137

Demirjian's method

Dental maturity curves in Finnish children: Demirjian's method revisited and polynomial functions for age estimation (Chaillet, N, Nystrom, M, Kataja, M, and Demirjian, A), Nov., 1324

Dental maturity in South France: a comparison between Demirjian's method and polynomial functions (Chaillet, N and Demirjian, A), Sept., 1059

Dental age calculation

Age calculation using X-ray microfocus computed tomographical scanning of teeth: a pilot study (Vandevoort, FM, Bergmans, L, Cleynebruegel, JV, Bielen, DJ, Lambrechts, P, Wevers, M, Peirs, A, and Willems, G), July, 787

Dental development

Radiographic survey of third molar development in relation to chronological age among Japanese juveniles (Arany, S, Iino, M, and Yoshioka, N), May, 534

Dental identification

Recovery and identification of the victims of the Ehime Maru/USS Greenville collision at sea (Lewis, JA, Shiroma, CY, von Guenther, K, and Dunn, KN), May, 539

Dental pattern

The diversity of dental patterns in the orthopantomography and its significance in human identification (Lee, SS, Choi, JH, Yoon, CL, Kim, CY, and Shin, KJ), July, 784

Dental pulp

Variations in pulp/tooth area ratio as an indicator of age: a preliminary study (Cameriere, R, Ferrante, L, and Cingolani, M), March, 317

Dentin sampling

A minimally destructive technique for sampling dentin powder for mitochondrial DNA testing (Shiroma, CY, Fielding, CG, Lewis Sr., JA, Gleisner, MR, and Dunn, KN), July, 791

Dentistry

Self-extraction of teeth involving gamma-hydroxybutyric acid (Pretty, IA and Hall, RC), Sept., 1069

Deoxyribonucleic acid (DNA) typing

Effects of processing techniques on the forensic DNA analysis of human skeletal remains (Arismendi, JL, Baker, LE, and Matteson, KJ), Sept., 930

Desorption ionization

A case study on forensic polymer analysis by DIOS-MS: the suspect who gave us the SLIP (Shen, ZX, Thomas, JJ, Siuzdak, G, and Blackledge, RD), Sept., 1028

Development

Developmental validation of a single-tube amplification of the 13 CODIS STR loci, D2S1338, D19S433 and amelogenin: the AmpFISTR identifier PCR amplification kit (Collins, PJ, Hennessy, LK, Leibelt, CS, Roby, RK, Reeder, DJ, and Foxall, PA), Nov., 1265

DFO

Fingerprint detection on counterfeit US banknotes: the importance of preliminary paper examination (Azoury, M, Cohen, D,

Himberg, K, Qvintus-Leino, P, Saari, T, and Almog, J), Sept., 1015

Dietitian

Does the expert witness fit the crime? Injury to a child by starvation—a dietitian's testimony (Kloiber, LL), Jan., 108

Digital autopsy

Virtopsy—fatal motor vehicle accident with head injury (Aghayev, E, Thali, M, Jackowski, C, Sonnenschein, M, Yen, K, Vock, P, and Dirnhofer, R), July, 809

Digital evidence

Defining event reconstruction of digital crime scenes (Carrier, BD and Spafford, EH), Nov., 1291

Discriminant function

Further evidence to show population specificity of discriminant function equations for sex determination using the talus of South African Blacks (Bidmos, MA and Dayal, MR), Nov., 1165

Sexual dimorphism of the calcaneus of South African Blacks (Bidmos, MA and Asala, SA), May, 446

Discriminating power

The evidential value of cosmetic foundation smears in forensic casework (Gordon, A and Coulson, S), Nov., 1244

Diversity

The diversity of dental patterns in the orthopantomography and its significance in human identification (Lee, SS, Choi, JH, Yoon, CL, Kim, CY, and Shin, KJ), July, 784

DNA

Using STR analysis to detect human DNA from exploded pipe bomb devices (Esslinger, KJ, Siegel, JA, Spillane, H, and Stallworth, S), May, 481

DNA data

Matching and partially matching DNA profiles (Weir, BS), Sept., 1009

DNA databank

Validation study of the trueallele® automated data review system (Kadash, K, Kozlowski, BE, Biega, LA, and Duceaman, BW), July, 660

DNA evidence

Author's response (Thompson, WC, Taroni, F, and Aitken, CGG), Jan., 194

Commentary on: Thompson WC, Taroni, F, Aitken CGG. How the probability of a false positive affects the value of DNA evidence. *J Forensic Sci* 2003;48(1): 47–54 (Brenner, CH and Inman, K), Jan., 192

DNA extraction

A simple and efficient method for extracting DNA from old and burned bone (Ye, J, Ji, A, Parra, EJ, Zheng, XF, Jiang, CT, Zhao, XC, Hu, L, and Tu, Z), July, 754

Application of the BioMek® 2000 laboratory automation workstation and the DNA IQ™ system to the extraction of forensic casework samples (Greenspoon, SA, Ban, JD, Sykes, K, Ballard, EJ, Edler, SS, Baisden, M, and Covington, BL), Jan., 29

Successful extraction of human genomic DNA from serum and its application to forensic identification (Ravard-Goulvestre, C, Crainic, K, Guillon, F, Paraire, F, Durigon, M, and de Mazancourt, P), Jan., 60

DNA profiling

A study on the effects of degradation and template concentration on the amplification efficiency of the STR miniplex primer sets (Chung, DT, Drabek, J, Opel, KL, Butler, JM, and McCord, BR), July, 733

Authors' response (Chakraborty, R, Lee, HS, and Budowle, B), Nov., 1394

Concordance study between miniplex assays and a commercial STR typing kit (Drabek, J, Chung, DT, Butler, JM, and McCord, BR), July, 859

DNA quantitation

Evaluation of an automated liquid hybrid hybridization method for DNA quantitation (Hayn, S, Wallace, MM, Prinz, M, and Shaler, RC), Jan., 87

DNA typing

A comparison study of hair examination methodologies (Kolowski, JC, Petraco, N, Wallace, MM, De Forest, PR, and Printz, M), Nov., 1253

Accurate STR allele designations at the FGA and vWA loci despite primer site polymorphisms (Hendrickson, BC, Leclair, B, Forrest, S, Ryan, J, Ward, BE, Petersen, C, Kupferschmid, TD, and Scholl, T), March, 250

Allele frequencies for markers CSF1PO, TPOX, TH01, F13A01, FESFPS, vWA, D16S539, D7S820, D13S317 in the general population of Nicaragua (Flores-Obando, RE, Budowle, B, and Huete-Pérez, JA), March, 416

Allele frequencies for two new Y-chromosome STR loci DYS607 in Chinese Han population (Shanxi Area) (Zhang, GQ, Yun, KM, Zhang, XY, Wang, Y, and Wang, YY), May, 630

Allele frequencies of 15 loci using AmpFISTR Identifier kit in a Northern Portuguese population (Abrantes, D, Lima, G, Cainé, L, and Pinheiro, F), July, 842

Allele frequencies of four STR loci in Eastern Chinese population (Gao, YZ and Xia, SX), March, 404

Allele frequencies of six STR loci (D3S4536, D4S2633, D5S2500, D9S925, D9S1118, and D20S481) in Chinese Han population (Huang, D, Yang, QG, and Yu, C), March, 413

Allele frequencies of Y-chromosome STR loci DYS463 and DYS467 in a Chinese population (Wang, XD, Dai, HL, Hou, YP, Zhu, QF, Zhang, HJ, Li, YB, Wu, J, Zhang, J, and Deng, JQ), May, 632

Allele frequency distribution for 9 STR loci in the Tamil population of Malaysia (Panneerchelvam, S, Thevan, K, KokFai, L, Saravanakumar, M, Sumathy, V, Yuvanewari, KC, and Norazmi, MN), July, 863

Allele frequency distribution of D8S592 (STR) PDGFA (VNTR) among five endogenous population groups of India (Ahmad, S and Seshadri, M), July, 840

Alleles responsible for ABO phenotype-genotype discrepancy and alleles in individuals with a weak expression of A or B antigens (Mizuno, N, Ohmori, T, Sekiguchi, K, Kato, T, Fujii, K, Shiraishi, T, Kasai, K, Sato, H, and Fujii, T), Jan., 21

Allelic frequencies of three X-Y homologous STR loci in Chinese population (Shi, MS, Deng, JQ, Jia, ZJ, Ying, BW, Li, YB, Wu, J, Hou, YP, and Zhang, J), Sept., 1130

Assignment of paternity in a judicial dispute between two neighbor Holstein dairy farmers (Lirón, JP, Ripoli, MV, García, PP, and Giovambattista, G), Jan., 96

Brasilian Caucasian population data for 15 STR loci (Powerplex 16™ kit) (Figueiredo, MS, Fernandez-Rosado, F, Kunii, I, Pacheco, AC, Lorente, JA, and Budowle, B), Jan., 167

Distribution of allele frequencies for two tetranucleotide repeats (FES and D2S1328) among five Indian population groups (Ahmad, S and Seshadri, M), March, 409

Distribution of allele frequencies of a STR (D5S580) marker in five population groups of Kerala in south India (Khurana, S and Seshadri, M), Nov., 1378

Distribution of D1S80 alleles and their Tsp5091 subtypes in Romanian population (Ceacareanu, AC, Ceacareanu, B, Ofiteru, A, Rodewald, A, and Szegli, G), July, 865

Distribution of D3S1358, vWA and D13S317 alleles in Chinese population (Ying, BW, Chen, JH, Wang, JP, Shi, MS, Deng, JQ, Li, YB, Wu, J, Zhang, J, Yan, J, Lin, W, and Hou, BS), Jan., 165

Distribution of HLA-DQA1, LDLR, GYPA, HBGG, D7S8, and Gc alleles in a black population sample from Sao Paulo, Brazil (Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Figaro Gattas, GJ, Bydlowski, SP, and Otto, PA), Nov., 1374

Distributions of allelic frequencies and haplotypes of two new STR loci in a Chinese Han population (Jia, ZJ, Wu, J, Hou, YP, Zhou, XP, Zhang, WJ, Deng, JQ, Zhang, J, Ying, BW, Shi, MS, and Yan, J), March, 409

Distributions of allelic frequencies and haplotypes of two new STR loci in a Chinese Han population (Jia, ZJ, Wu, J, Zhang, WJ, Zhou, XP, Deng, JQ, Hou, YP, Zhang, J, Ying, BW, Yan, J, Gao, X, and Li, YB), Jan., 189

Distributions of allelic frequencies and haplotypes of three new STR loci in a Chinese Han population (Jia, ZJ, Li, YB, Li, H,

- Zhou, XP, Zhang, WJ, Wang, SL, Wu, J, Deng, JQ, Zhang, J, and Hou, YP), Nov., 1367
- Enhanced kinship analysis and STR-based DNA typing for human identification in mass fatality incidents: The Swissair Flight 111 disaster (Leclair, B, Fregeau, CJ, Bowen, KL, and Fourney, RM), Sept., 939
- Evaluation of five short tandem repeat loci among north Indian Muslim populations (Khan, F, Pandey, AK, Tripathi, M, Talwar, S, and Agrawal, S), July, 866
- Genetic analysis of large data sets of North American Black, Caucasian and Hispanic populations at 13 CODIS STR loci (Einum, DD and Scarpetta, M), Nov., 1381
- Genetic data of 8 Y-chromosome STRs in males from Santa Catarina, Brazil (Cainé, LM, Pontes, L, Abrantes, D, Lima, G, and Pinheiro, F), Sept., 1125
- Genetic data of two STR loci D4S2367, D20S601 in Chinese population (Zhou, XP, Bai, P, Zhang, WJ, Jia, ZJ, Wu, J, Li, YB, and Hou, YP), Nov., 1380
- Genetic diversity of sixteen STRs in the Peruvian Mesa Redonda Lima population (Tito, RY, López, PW, Iannaccone, GC, and Lizárraga, B), July, 852
- Genetic polymorphism for two STR loci D4S2639 and D4S1644 in a Chinese population (Wang, ZF, Gao, YZ, Xia, SX, and Zhang, ZX), Nov., 1386
- Genetic profile of two STR loci D1S2134, D2S2944 in Chinese population (Zhou, XP, Zhang, WJ, Jia, ZJ, Wu, J, Hou, YP, Li, YB, and Gao, YZ), Jan., 166
- Genetic profiles of five STR loci in eastern Chinese populations (Gao, YZ and Xia, SX), May, 631
- Genetic variation of two new STR Loci D2S1399, D16S3391 in a Chinese population (Gao, YZ and Xia, SX), July, 839
- Genotype distribution of DYS385 and D10S676 in Chinese Han population of Yunnan Province (Cheng, BW and Xiao, CJ), Sept., 1124
- Mitochondrial DNA heteroplasmy among hairs from single individuals (Sekiguchi, K, Sato, H, and Kasai, K), Sept., 986
- Mutation in the STR locus D21S11 of father causing allele mismatch in the child (Thangaraj, K, Reddy, AG, and Singh, L), Jan., 99
- Northwest Italian population data for thirteen tetrameric and two pentameric STR loci (Robino, C, Gino, S, Inturri, S, and Torre, C), March, 405
- Polymorphism data of two STR loci DYS632 and DYS634 in a Chinese Han population (Yun, LB, Ying, BW, Gu, Y, Fang, YQ, Sun, XM, Huang, J, Zhang, J, Li, YB, Wu, J, and Hou, YP), Nov., 1373
- Polymorphism of 9 STRs in ethnic Chinese population of Malaysia (Panneerchelvam, S, Thevan, K, Fai, LK, Saravanakumar, M, Sumathy, V, Yuvanawari, KC, and Norazmi, MN), Sept., 1132
- Polymorphisms of D1S80 and 3' ApoB minisatellite loci in Northern Caucasus populations (Verbenko, DA, Pocheshkhova, EA, Balanovskaya, EV, Marshanija, EZ, Kvitzinija, PK, and Limborska, SA), Jan., 178
- Population data of two X-chromosome STR loci GATA186D06 and GATA198A10 in China (Deng, JQ, Shi, MS, Ying, BW, Jia, ZJ, Hou, YP, Suo, YP, Li, YB, Wu, J, Yan, J, Wang, XD, Dai, HL, and Zhu, QF), Jan., 173
- Population data on 15 STR loci (Powerplex 16TM kit) in a Costa Rica (Central America) sample population (Melendez, E, Martinez-Espin, E, Karlson, IS, Lorente, JA, and Budowle, B), Jan., 170
- Population data on 9 STR loci in Crete (Greece) (Petridis, G, Abaci-Kalfoglou, E, Christakis-Hampsas, MG, Ferke, A, Filoglu, G, Kapsali, Y, Atasoy, S, and Michalodimitrakis, M), Nov., 1368
- Population genetic data at two minisatellites (D19S20 and APOB 3' VNTR) between two tribal populations from central India (Das, B and Seshadri, M), Nov., 1376
- Population genetics of eleven STR loci in the State of Sergipe, Northeastern Brazil (Pimentel, BJ, de Azevedo, DA, and da Silva, LA), March, 402
- Population genetics of two STR loci D2S1396 and D6S474 in a Chinese population (Zhang, WJ, Wu, J, Jia, ZJ, Zhou, XP, Li, YB, Yan, J, Ying, BW, Zhang, J, and Hou, YP), March, 415
- Population genetics of two STR loci D4S2366 and D6S1281 in a Chinese population (Zhang, WJ, Li, YB, Zhou, XP, Jia, ZJ, Gao, YZ, Yan, J, Wu, J, Zhang, J, and Hou, YP), Jan., 183
- Systematic differences in electropherogram peak heights reported by different versions of the GeneScan[®] Software (Gilder, JR, Ford, S, Doom, TE, Raymer, ML, and Krane, DE), Jan., 92
- The autosomal STR frequencies in Pakistani populations (Hadi, S, Vanezis, P, and Goodwin, W), July, 868
- Utility of the Y-STR typing systems, Y-PLEXTM 6 and Y-PLEXTM 5 in forensic casework and 11 Y-STR haplotype database for three major population groups in the United States (Sinha, S, Budowle, B, Chakraborty, R, Paunovic, A, Guidry, RD, Larsen, C, Lal, A, Schaffer, M, Pineda, G, Sinha, SK, Schneida, E, Nasir, H, and Shewale, JG), July, 691
- Y-Chromosomal STR loci data in Japanese using the Y-PLEXTM 5 and Y-PLEXTM 6 PCR amplification kits (Kido, A, Hara, M, Kameyama, H, Yamamoto, Y, Sudukida, R, and Oya, M), July, 849
- Y-chromosome STR system, Y-PLEXTM 12, for forensic casework: development and validation (Shewale, JG, Nasir, H, Schneida, E, Gross, AM, Budowle, B, and Sinha, SK), Nov., 1278
- Y-STR haplotypes from eight south Indian groups based on five loci (Cordaux, R, Bentley, G, Aunger, R, Sirajuddin, SM, and Stoneking, M), July, 847
- Document examination**
- Differentiation of black gel inks using optical and chemical techniques (Wilson, JD, LaPorte, GM, and Cantu, AA), March, 364
- Drug abuse**
- Deaths after intravenous misuse of transdermal fentanyl (Lilleng, PK, Mehlum, LI, Bachs, L, and Morlid, I), Nov., 1364
- Drug enforcement training program**
- Review of: practical drug enforcement (Payne, DM), Jan., 197
- Drug intelligence**
- Analysis of dyes in illicit pills (amphetamine and derivatives) (Goldmann, T, Taroni, F, and Margot, P), July, 716
- Drug interaction**
- Author's response to Borrows, DL, et al. A fatal drug interaction between oxycodone and clonazepam (Paper ID#2003298) (Burrows, D), May, 642
- Commentary on: Borrows, DL, et al. A fatal drug interaction between oxycodone and clonazepam. *J Forensic Sci* 2003;48(3):683–86 (Haddox, JD and Carrig, B), May, 643
- Commentary on: Borrows, DL, et al. A fatal drug interaction between oxycodone and clonazepam. *J Forensic Sci* 2003;48(3):683–86 (Palmer, RB and Dart, RC), May, 641
- Drug testing**
- Review of: on-site drug testing (Larsen, Jr., AK), Sept., 1139
- DXS6789**
- Allele frequency distribution of two X-chromosomal STR loci in Han population in China (Lv, M, Liang, W, Wu, MY, Zhou, B, Jia, Y, and Zhang, L), March, 418
- DXS6803**
- Two X-chromosome STR loci DXS6803 and XS6793 frequency data in Chinese Population (Jia, Y, Zhou, B, Liang, WB, Li, M, and Zhang, L), July, 845

E

EBay

Commentary on: Huxley, AK, Finnegan, M. Human remains sold to the highest bidder! A snapshot of the buying and selling of human skeletal remains on eBay[®], an Internet auction site. *J Forensic Sci* 2004;49(1):17–20 (Kubiczek, PA and Mellen, PF), Sept., 1137

Ecstasy

Analysis of dyes in illicit pills (amphetamine and derivatives) (Goldmann, T, Taroni, F, and Margot, P), July, 716

Elder abuse

Abuse and neglect: a ten-year review of mortality and morbidity in our elders in a large

metropolitan area (Shields, LE, Hunsaker, DM, and Hunsaker III, DM), Jan., 122

Elder neglect

Abuse and neglect: a ten-year review of mortality and morbidity in our elders in a large metropolitan area (Shields, LE, Hunsaker, DM, and Hunsaker III, DM), Jan., 122

Electrolytes

Measurement of chemical analytes in vitreous humor: stability and precision studies (Gagajewski, A, Murakami, MM, Kloss, J, Edstrom, M, Hillyer, M, Peterson, GF, Amatuzio, J, and Apple, FS), March, 371

Electrospray ionization

Highly sensitive screening method for nitroaromatic, nitramine and nitrate ester explosives by high performance liquid chromatography-atmospheric pressure ionization-mass spectrometry (HPLC-API-MS) in forensic applications (Xu, X, de Craats, AM, and de Bruyn, P), Nov., 1171

Encyclopedia

Review of: encyclopedia of forensic science (Ballou, S), July, 894

Engineering

Erratum/Correction of TOC of May 2004. Frequency of serial sexual homicide victimization in Virginia for a ten-year period, Mcnamara, MM and Morton, RJ, JFS 2004 May;49(3):529-533. (Peat, MA), Sept., 1148

Enucleation

Enucleation in psychosis associated with aqueductal stenosis (Mancinelli, I, Pompili, M, Scapati, F, Lazanio, S, Kotzalidis, GD, and Tatarelli, R), March, 361

Environmental analysis

Dr. Walter C. McCrone—his contributions to environmental microscopy (Kubic, TA), March, 277

Environmental forensics

Review of: introduction to environmental forensics (Lentini, JJ), July, 879

Ephedrine

Evaluation of ephedrine, pseudoephedrine and phenylpropanolamine concentrations in human urine samples and a comparison of the specificity of, DRI® amphetamines and Abuscreen® Online (KIMS) amphetamines screening immunoassay (Stout, PR, Klette, KL, and Horn, CK), Jan., 160

Epithelial cells

Lugol's test reexamined again: buccal cells (Jones Jr., EL and Leon, JA), Jan., 64

Esophagus

Esophageal and pharyngeal injuries associated with the use of the esophageal-tracheal combitube (Stoppacher, R, Tegatz, JR, and Jentzen, JM), May, 586

Ethanol

Effect of eight solvents on ethanol analysis by Dräger 7110 evidential breath analyzer (Laakso, O, Pennanen, T, Himberg, K, Kuitunen, T, and Himberg, JJ), Sept., 1113

Ethics

Crime scene ethics: souvenirs, teaching material, and artifacts (Rogers, TL), March, 307

Ethylene glycol dinitrate

A second survey of high explosives traces in public places (Cullum, HE, McGavigan, C, Uttley, CZ, Stroud, MA, and Warren, DC), July, 684

Exercised-induced anaphylaxis

Sudden death associated with food and exercise (Flannagan, LM and Wolf, BC), May, 543

Exhumation

Factors affecting postmortem tooth loss (Duric, M, Rakocevic, Z, and Tuller, H), Nov., 1314

Expert witness

Does the expert witness fit the crime? Injury to a child by starvation—a dietitian's testimony (Kloiber, LL), Jan., 108

Explosives

Dr. Walter C. McCrone's contribution to the characterization and identification of explosives (Hopen, TJ), March, 275

Highly sensitive screening method for nitroaromatic, nitramine and nitrate ester explosives by high performance liquid chromatography-atmospheric pressure ionization-mass spectrometry (HPLC-API-MS) in forensic applications (Xu, X, de Craats, AM, and de Bruyn, P), Nov., 1171

Identification of ascorbic acid and its degradation products in black powder substitutes (Goodpaster, JV and Keto, RO), May, 523

New developments in SPME Part 2: analysis of ammonium nitrate-based explosives (Brown, H, Kirkbride, KP, Pigou, PE, and Walker, GS), March, 215

Rapid screening of selected organic explosives by high performance liquid chromatography using reversed-phase monolithic columns (Doble, P, Paull, B, Roux, C, and Dawson, M), Nov., 1181

Explosives traces

A second survey of high explosives traces in public places (Cullum, HE, McGavigan, C, Uttley, CZ, Stroud, MA, and Warren, DC), July, 684

F

F13A01

STR polymorphism between two tribal populations of India (Ghosh, A, Ramesh, A, Kumar, AR, and Seshadri, M), July, 856

False positive

Author's response (Thompson, WC, Taroni, F, and Aitken, CGG), Jan., 194

Commentary on: Thompson, WC, Taroni, F, and Aitken, CGG. How the probability of a false positive affects the value of DNA evidence. J Forensic Sci 2003;48(1):47-54 (Brenner, CH and Inman, K), Jan., 192

Fatal poisoning

Postmortem citalopram concentrations: alone or along with other compounds (Segura, LJ and Bravo, B), July, 814

Female

Female suicides in Diyarbakir, Turkey (Goren, S, Subasi, M, Tirasci, Y, and Ozen, S), July, 796

Femur

Comparison of age estimated from degree of racemization of aspartic acid, glutamic acid and alanine in the femur (Ohtani, S, Yamada, Y, Yamamoto, T, Arany, S, Gonmori, K, and Yoshioka, N), May, 441

Fetal visceral maturation: a useful contribution to gestational age estimation in human fetuses (Piercecchi-Marti, MD, Adalian, P, Liprandi, A, Figarella-Branger, D, Dutour, O, and Leonetti, G), Sept., 912

Fentanyl

Deaths after intravenous misuse of transdermal fentanyl (Lilleng, PK, Mehlum, LI, Bachs, L, and Morlid, I), Nov., 1364

FGA

Accurate STR allele designations at the FGA and vWA loci despite primer site polymorphisms (Hendrickson, BC, Leclair, B, Forrest, S, Ryan, J, Ward, BE, Petersen, C, Kupferschmid, TD, and Scholl, T), March, 250

Fingerprint detection

Evaluation of iodine-benzoflavone and ruthenium tetroxide spray reagents for the detection of latent fingerprints at the crime scene (Flynn, K, Maynard, P, Du Pasquier, E, Lennard, C, Stoilovic, M, and Roux, C), July, 707

Fingermarks

Evaluation of iodine-benzoflavone and ruthenium tetroxide spray reagents for the detection of latent fingerprints at the crime scene (Flynn, K, Maynard, P, Du Pasquier, E, Lennard, C, Stoilovic, M, and Roux, C), July, 707

Fingerprint reagent

Genipin—a novel fingerprint reagent with colorimetric and fluorogenic activity (Almog, J, Cohen, Y, Azoury, M, and Hahn, TR), March, 255

Fire accelerants

The evaluation of the extent of transporting or "tracking" an identifiable ignitable liquid (gasoline) throughout fire scenes during the investigative process (Armstrong, A, Babrauskas, V, Holmes, DL, Martin, C,

Powell, R, Riggs, S, and Young, LD), July, 741

Fire debris analysis

Aromatic content in medium range distillate products. Part I: an examination of various liquids (Dolan, JA and Stauffer, E), Sept., 992

Fire modeling

The application of NIST's fire dynamics simulator to the investigation of carbon monoxide exposure in the deaths of three Pittsburgh fire fighters (Christensen, AM and Icove, DJ), Jan., 104

Firearms discharge pattern

Gunshot residue particle velocity and deceleration (De Forest, P, Martir, K, and Pizzola, PA), Nov., 1237

Fluorescence microscope

Fingerprints' third dimension: the depth and shape of fingerprints penetration into paper—cross section examination by fluorescence microscopy (Almog, J, Azoury, M, Elmaliyah, Y, Berenstein, L, and Zaban, A), Sept., 981

Food allergy

Sudden death associated with food and exercise (Flannagan, LM and Wolf, BC), May, 543

Forensic

Successful extraction of human genomic DNA from serum and its application to forensic identification (Ravard-Goulvestre, C, Crainic, K, Guillon, F, Paraire, F, Durigon, M, and de Mazancourt, P), Jan., 60

Forensic anthropology

A new technique for three-dimensional ultrasound scanning of facial tissues (Smith, SL and Throckmorton, GS), May, 451

A preliminary investigation of the stages of adipocere formation (Forbes, SL, Stuart BH, Dadour, IR, and Dent, BB), May, 566

Anthropological data in individualization of skeletal remains from a forensic context in Kosovo—a case history (Djuric, MP), May, 464

Cremation weights in East Tennessee (Bass, WM and Jantz, RL), Sept., 901

Effects of processing techniques on the forensic DNA analysis of human skeletal remains (Arismendi, JL, Baker, LE, and Matteson, KJ), Sept., 930

Identification of traumatic injury in burned cranial bone: an experimental approach (Pope, EJ and Smith, OC), May, 431

Interpretation of postmortem change in cadavers in Spain (Prieto, JL, Magaña, C, and Ubelaker, DH), Sept., 918

Reconsidering the auricular surface as an indicator of age at death (Osborne, DL, Simmons, TL, and Nawrocki, SP), Sept., 905

Sex differences and aging of the vertebral column (Snodgrass, JJ), May, 458

The belated autopsy and identification of an eighteenth century naval hero—the saga of John Paul Jones (Rogers, NL, Field, K, Froede, RC, and Towne, B), Sept., 1036

The determination of male adult age at death by central and posterior coxal analysis—a preliminary study (Telmon, N, Rissech, C, Malgosa, A, Rougé, D, and Rouge-Maillart), March, 208

The impact of Daubert: implications for testimony and research in forensic anthropology (and the use of frontal sinuses in personal identification) (Christensen, AM), May, 427

The influence of behavior on freefall injury patterns: possible implications for forensic anthropological investigations (Christensen, AM), Jan., 5

Understanding rib fracture patterns: incomplete and buckle fractures (Love, JC and Symes, SA), Nov., 1153

Forensic applications

Allelic variation at 15 microsatellite loci in one important Australoid and two Indocaucasoid groups of Chhattisgarh-India (Neeta, S and Kashyap, VK), Jan., 184

Forensic aspects

Review of: methamphetamine use, clinical and forensic aspects (Larsen, Jr., AK), Sept., 1140

Forensic biology

Lugol's test reexamined again: buccal cells (Jones Jr., EL and Leon, JA), Jan., 64

Forensic botany

Estimation of postmortem interval (PMI) as revealed through the analysis of annual growth in woody tissue (Courtin, GM and Fairgrieve, SI), July, 781

Pig decomposition in lotic aquatic systems: the potential use of algal growth in establishing a postmortem submersion interval (PMSI) (Haefner, JN, Wallace, JR, and Merritt, RW), March, 330

Forensic document examination

Dating of ballpoint pen ink (Hofer, R), Nov., 1353

Forensic entomology

Mitochondrial DNA and STR analyses of maggot crop contents: effect of specimen preservation technique (Linville, JG, Hayes, J, and Wells, JD), March, 341

STR typing of human DNA from fly larvae fed on decomposing bodies (Zehner, R, Amendt, J, and Krettek, R), March, 337

The effect of time after body discovery on the accuracy of retrospective weather station ambient temperature corrections in forensic entomology (Archer, MS), May, 553

Forensic epidemiology

Review of: case studies in forensic epidemiology (Sanders, J), July, 881

Forensic examination

Evaluation of three rapid detection methods for the forensic identification of semi-

nal fluid in rape cases (Khaldi, N, Miras, A, Botti, K, Benali, L, and Gromb, S), July, 749

Forensic medicine

Effect of eight solvents on ethanol analysis by Dräger 7110 evidential breath analyzer (Laakso, O, Pennanen, T, Himberg, K, Kuitunen, T, and Himberg, JJ), Sept., 1113

Forensic microscopy

A selection of some of Dr. McCrone's high and low profile cases in forensic analysis of art (Stoney, DA), March, 280

Dr. McCrone's teaching methods in forensic microscopy, their nature, history, and durability (Laughlin, GT), March, 270

Dr. Walter C. McCrone—his contributions to environmental microscopy (Kubic, TA), March, 277

Forensic nurse examiner

A mobile system for postmortem genital examinations with colposcopy: SART-TO-GO (Crowley, SR), Nov., 1299

Forensic odontology

A comparison between direct and indirect methods available for human bite mark analysis (Kouble, RF and Craig, GT), Jan., 111

A minimally destructive technique for sampling dentin powder for mitochondrial DNA testing (Shiroma, CY, Fielding, CG, Lewis Sr., JA, Gleisner, MR, and Dunn, KN), July, 791

Age calculation using X-ray microfocus computed tomographical scanning of teeth: a pilot study (Vandevoort, FM, Bergmans, L, Cleynebruegel, JV, Bielen, DJ, Lambrechts, P, Wevers, M, Peirs, A, and Willems, G), July, 787

Bite mark or bottle top? (James, H and Cirillo, GN), Jan., 119

Precision and reliability of pulp/tooth area ratio (RA) of second molar as indicator of adult age (Cameriere, R, Ferrante, L, and Cingolani, M), Nov., 1319

Recovery and identification of the victims of the Ehime Maru/USS Greenville collision at sea (Lewis, JA, Shiroma, CY, von Guenther, K, and Dunn, KN), May, 539

The USS Iowa disaster: success of the forensic dental team (Brannon, RB and Morlang, WM), Sept., 1067

Variations in pulp/tooth area ratio as an indicator of age: a preliminary study (Cameriere, R, Ferrante, L, and Cingolani, M), March, 317

Forensic palynology

An example of the use of forensic palynology in assessing an alibi (Mildenhall, DC), March, 312

Postmortem analysis of anastomotic suture line disruption following carotid endarterectomy (Melinek, J, Lento, P, and Moalli, J), Sept., 1077

Recovery and identification of the victims of the Ehime Maru/USS Greenville collision at sea (Lewis, JA, Shiroma, CY, von Guenther, K, and Dunn, KN), May, 539

Subsampling and preparing forensic samples for pollen analysis (Horrocks, M), Sept., 1024

Forensic pathology

Abuse and neglect: a ten-year review of mortality and morbidity in our elders in a large metropolitan area (Shields, LE, Hunsaker, DM, and Hunsaker III, DM), Jan., 122

Accidental insulin overdose (Batalis, N and Prahlow, JA), Sept., 1117

Identification of traumatic injury in burned cranial bone: an experimental approach (Pope, EJ and Smith, OC), May, 431

Sudden unexpected death due to a brainstem glioma in an adult (Dolinak, D, Matshes, E, and Waghray, R), Jan., 128

Suicide by cyanide: 17 deaths (Gill, JR, Marker, EM, and Stajic, M), July, 826

Typing of XY (male) genotype from malignant neoplastic tissue by the amelogenin-based sex test (Vauhkonen, H, Hedman, M, Vauhkonen, M, Sipponen, P, and Sajantila, A), March, 222

Virtopsy: forensic traumatology of the subcutaneous fatty tissue; multislice computed tomography (MSCT) and magnetic resonance imaging (MRI) as diagnostic tools (Yen, K, Vock, P, Tiefenthaler, B, Ranner, G, Scheurer, E, Thali, MJ, Zwygart, K, Sonnenschein, M, Wiltgen, M, and Dirnhofer, R), July, 799

Forensic psychiatry

Psychiatric and neurological characteristics of murder defendants referred for pretrial evaluation (Frierson, RL and Finkenbine, RD), May, 604

Forensic psychology

Assault in prison and assault in prison psychiatric treatment (Young, MH, Justice, JV, and Erdberg, P), Jan., 141

Forensic radiology

Virtopsy: forensic traumatology of the subcutaneous fatty tissue; multislice computed tomography (MSCT) and magnetic resonance imaging (MRI) as diagnostic tools (Yen, K, Vock, P, Tiefenthaler, B, Ranner, G, Scheurer, E, Thali, MJ, Zwygart, K, Sonnenschein, M, Wiltgen, M, and Dirnhofer, R), July, 799

Virtopsy—fatal motor vehicle accident with head injury (Aghayev, E, Thali, M, Jackowski, C, Sonnenschein, M, Yen, K, Vock, P, and Dirnhofer, R), July, 809

Visualization and quantification of air embolism structure by processing postmortem MSCT data (Jackowski, C, Thali, M, Sonnenschein, M, Aghayev, E, Yen, K, Dirnhofer, R, and Vock, P), Nov., 1339

Forensic science

An example of the use of forensic palynology in assessing an alibi (Mildenhall, DC), March, 312

Forensic taphonomy

A laboratory incubation method for determining the rate of microbiological degrada-

tion of skeletal muscle tissue in soil (Tibbett, M, Carter, DO, Haslam, T, Major, R, and Haslam, R), May, 560

Forensic technology

Linking crime guns: the impact of ballistics imaging technology on the productivity of the Boston Police Department's Ballistics Unit (Braga, AA and Pierce, GL), July, 701

Forensic toxicology

Fatal bupivacaine intoxication following unusual erotic practices (Yazzie, J, Kelly, SC, Zumwalt, RE, and Kerrigan, S), March, 351

Fatality due to methyl acetylene-propadiene (MAPP) inhalation (Avella, J and Lehrer, M), Nov., 1361

Hallucinations with Zolpidem and Fluoxetine in an impaired driver (Coleman, DE and Ota, K), March, 392

Sudden death caused by 1,1-difluoroethane inhalation (Xiong, Z, Avella, J, and Welti, CV), May, 627

The effect of breath freshener strips on two types of breath alcohol testing instruments (Moore, RL and Guillen, J), July, 829

Use of MDA (the Love Drug) and methamphetamine in Toronto by unsuspecting users of Ecstasy (MDMA) (Kalasinsky, KS, Hugel, J, and Kish, SJ), Sept., 1106

Forensic urine drug testing

Evaluation of ephedrine, pseudoephedrine and phenylpropanolamine concentrations in human urine samples and a comparison of the specificity of, DRI[®] amphetamines and Abuscreen[®] Online (KIMS) amphetamines screening immunoassay (Stout, PR, Klette, KL, and Horn, CK), Jan., 160

Freon

Sudden death caused by 1,1-difluoroethane Inhalation (Xiong, Z, Avella, J, and Welti, CV), May, 627

Fungi

Commentary on: Carter, DO, and Tibbett, M. Taphonomic mycota: fungi with forensic potential. *J Forensic Sci* 2003;48(1):168–71 (Bunyard, BA), Sept., 1134

Future of scientific publishing

President's editorial—some thoughts on the future of scientific publishing (Singer, RL), Sept., 899

G

Gamma-butyrolactone

The extraction and infrared identification of gamma-hydroxybutyric acid (GHB) from aqueous solutions (Chappell, JS, Meyn, AW, and Ngim, KK), Jan., 52

The reactivity of gamma-hydroxybutyric acid (GHB) and gamma-butyrolactone (GBL) in alcoholic solutions (Hennessy, SA, Moane, SM, and McDermott, SD), Nov., 1220

Gamma-hydroxybutyrate

The extraction and infrared identification of gamma-hydroxybutyric acid (GHB) from aqueous solutions (Chappell, JS, Meyn, AW, and Ngim, KK), Jan., 52

Gamma-hydroxybutyrate dehydrogenase

Reliable, sensitive, rapid quantitative enzyme-based assay for gamma-hydroxybutyric acid (GHB) (Bravo, DT, Harris, DO, and Parsons, SM), March, 379

Gamma-hydroxybutyric acid

The extraction and infrared identification of gamma-hydroxybutyric acid (GHB) from aqueous solutions (Chappell, JS, Meyn, AW, and Ngim, KK), Jan., 52

The reactivity of gamma-hydroxybutyric acid (GHB) and gamma-butyrolactone (GBL) in alcoholic solutions (Hennessy, SA, Moane, SM, and McDermott, SD), Nov., 1220

Gas chromatography

Organic explosives analysis using on column-ion trap EI/NICI GC-MS with an external source (Calderara, S, Gardebas, D, Martinez, F, and Khong, SP), Sept., 1005

Gas chromatography/mass spectrometry

A preliminary investigation of the stages of adipocere formation (Forbes, SL, Stuart BH, Dadour, IR, and Dent, BB), May, 566

Gas chromatography-mass spectrometry

Comparison of gasolines using gas chromatography-mass spectrometry and target ion response (Barnes, AT, Dolan, JA, Kuk, RJ, and Siegel, JA), Sept., 1018

GBL

The reactivity of gamma-hydroxybutyric acid (GHB) and gamma-butyrolactone (GBL) in alcoholic solutions (Hennessy, SA, Moane, SM, and McDermott, SD), Nov., 1220

GC/MS

Component analysis of illicit heroin samples with GC/MS and its application in source identification (Zhang, D, Shi, XJ, Yuan, ZP, and Ju, HX), Jan., 81

Differentiation of black gel inks using optical and chemical techniques (Wilson, JD, LaPorte, GM, and Cantu, AA), March, 364

The identification of 2-phenoxyethanol in ballpoint inks using gas chromatography/mass spectrometry—relevance to ink dating (LaPorte, GM, Wilson, JD, Cantu, AA, Mancke, SA, and Fortunato, SL), Jan., 155

Gel electrophoresis

Validation and implementation of PowerPlex[®] 16 BIO system STR multiplex for forensic casework (Greenspoon, SA, Ban, JD, Pablo, L, Crouse, CA, Kist, FG, Tomsey, CS, Glessner, AL, Mihalacki, LR, Long, TM, Heidebrecht, BJ, Braunstein, CA, Freeman, DA, Soberalski,

C, Bruesehoff, N, Amin, AS, Douglas, EK, and Schumm, JW), Jan., 71

Genipin

Genipin—a novel fingerprint reagent with colorimetric and fluorogenic activity (Almog, J, Cohen, Y, Azoury, M, and Hahn, TR), March, 255

Genotype-phenotype discrepancy

Alleles responsible for ABO phenotype-genotype discrepancy and alleles in individuals with a weak expression of A or B antigens (Mizuno, N, Ohmori, T, Sekiguchi, K, Kato, T, Fujii, K, Shiraishi, T, Kasai, K, Sato, H, and Fujii, T), Jan., 21

Geometric morphometrics

A proposed method for the identification of race in sub-adult skeletons: a geometric morphometric analysis of mandibular morphology (Buck, TJ and Vidarsdottir, US), Nov., 1159

Population affinities of 19th century Cuban crania: implications for identification criteria in South Florida Cuban Americans (Ross, AH, Slice, DE, Ubelaker, DH, and Falsetti, AB), Jan., 11

GHB

Reliable, sensitive, rapid quantitative enzyme-based assay for gamma-hydroxybutyric acid (GHB) (Bravo, DT, Harris, DO, and Parsons, SM), March, 379

Self-extraction of teeth involving gamma-hydroxybutyric acid (Pretty, IA and Hall, RC), Sept., 1069

The reactivity of gamma-hydroxybutyric acid (GHB) and gamma-butyrolactone (GBL) in alcoholic solutions (Hennessy, SA, Moane, SM, and McDermott, SD), Nov., 1220

Gravesoil

A laboratory incubation method for determining the rate of microbiological degradation of skeletal muscle tissue in soil (Tibbett, M, Carter, DO, Haslam, T, Major, R, and Haslam, R), May, 560

GSR

A novel method for extraction and analysis of gunpowder residues on double-side adhesive coated stubs (Zeichner, A and Eldar, B), Nov., 1194

Guest and invited reviewers

In recognition and appreciation—guest and invited reviewers—2003 (Peat, MA), July, 837

Gun crime

Linking crime guns: the impact of ballistics imaging technology on the productivity of the Boston Police Department's Ballistics Unit (Braga, AA and Pierce, GL), July, 701

Gunpowder residue

A novel method for extraction and analysis of gunpowder residues on double-side adhesive coated stubs (Zeichner, A and Eldar, B), Nov., 1194

Gunshot fatalities

Authors' response (Gill, JR and Lenz, KA), May, 638

Commentary on: Gill, JR, et al. Gunshot fatalities in children and adolescents in New York City. *J Forensic Sci* 2003;48(4):832–35 (Tangren, P), May, 636

Gunshot residue

Gunshot residue particle velocity and deceleration (De Forest, P, Martir, K, and Pizzola, PA), Nov., 1237

Gunshot trauma

Erratum/correction of Puskas CM, Rumney DT. Bilateral fractures of the coronoid processes: differential diagnosis of intra-oral gunshot trauma and scavenging using a sheep crania model. *J Forensic Sci* 2003 Nov;48(6) (Puskas, CM), Jan., 198

H

Hair analysis

A comparison study of hair examination methodologies (Kolowski, JC, Petraco, N, Wallace, MM, De Forest, PR, and Printz, M), Nov., 1253

Hair DNA

Mitochondrial DNA heteroplasmy among hairs from single individuals (Sekiguchi, K, Sato, H, and Kasai, K), Sept., 986

Hallucinations

Hallucinations with zolpidem and fluoxetine in an impaired driver (Coleman, DE and Ota, K), March, 392

Handbook

Review of: Dreisbach's handbook of poisoning (Logan, BK), July, 872

Haplotype loci

Erratum/Correction of Hanson, EK, et al. A highly discriminating 21 locus Y-STR megaplex system designed to augment the minimal haplotype loci for forensic casework. (Hanson, EK and Ballantyne, J), Nov., 1395

Hate crime

Review of: terrorism and organized hate crime: intelligence gathering, analysis, and investigations (Ward, RH), Sept., 1141

Headspace

Improved method for the detection of TATP after explosion (Muller, D, Levy, A, Shelef, R, Abramovich-Bar, S, Sonenfeld, D, and Tamiri, T), Sept., 935

Heart attack

"Homicide by heart attack" revisited (Turner, SA, Barnard, JJ, Spotswood, SD, and Prahlow, JA), May, 598

Heroin

Component analysis of illicit heroin samples with GC/MS and its application in

source identification (Zhang, D, Shi, XJ, Yuan, ZP, and Ju, HX), Jan., 81

Heterozygous allele ratio

Systematic analysis of stutter percentages and allele peak height and peak area ratios at heterozygous STR loci for forensic casework and database samples (Leclair, B, Fregeau, CJ, Bowen, KL, and Fournay, RM), Sept., 968

High performance liquid chromatography-atmospheric pressure ionization-mass spectrometry

Highly sensitive screening method for nitroaromatic, nitramine and nitrate ester explosives by high performance liquid chromatography-atmospheric pressure ionization-mass spectrometry (HPLC-API-MS) in forensic applications (Xu, X, de Craats, AM, and de Bruyn, P), Nov., 1171

High-speed stroboscopic photography

Gunshot residue particle velocity and deceleration (De Forest, P, Martir, K, and Pizzola, PA), Nov., 1237

History of forensic sciences

The belated autopsy and identification of an eighteenth century naval hero—the saga of John Paul Jones (Rogers, NL, Field, K, Froede, RC, and Towne, B), Sept., 1036

HLA-DQA1

Distribution of HLA-DQA1, LDLR, GYPA, HBBG, D7S8, and Gc alleles in a black population sample from Sao Paulo, Brazil (Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Figaro Gattas, GJ, Bydlowski, SP, and Otto, PA), Nov., 1374

HMTD

Trace analysis of peroxide explosives by high performance liquid chromatography-atmospheric pressure chemical ionization-tandem mass spectrometry (HPLC-APCI-MS/MS) for forensic applications (Xu, X, van de Craats, AM, Kok, EM, and de Bruyn, P), Nov., 1230

Homicide

"Homicide by heart attack" revisited (Turner, SA, Barnard, JJ, Spotswood, SD, and Prahlow, JA), May, 598

Homicidal cerebral artery aneurysm rupture (Prahlow, JA), Sept., 1082

Homicide by manual occipitoatlantal dislocation (Raul, JS, Tracqui, A, and Ludes, B), May, 601

Homicide victim/offender relationship in Florida Medical Examiner District 8 (Drawdy, SM and Myers, WC), Jan., 150

Human decomposition

Decompositional odor analysis database (Vass, AA, Smith, RR, Thompson, CV, Burnett, MN, Wolf, DA, Synsteliën, JA, Dulgerian, N, and Eckenrode, BA), July, 760

Human identification

Allelic variation at 15 microsatellite loci in one important Australoid and two Indocaucasoid groups of Chhattisgarh-India

(Neeta, S and Kashyap, VK), Jan., 184
Specificity of sibship determination using the ABI identifier multiplex system (Reid, TM, Wolf, CA, Kraemer, CM, Lee, SC, Baird, ML, and Lee, RF), Nov., 1262

The diversity of dental patterns in the orthopantomography and its significance in human identification (Lee, SS, Choi, JH, Yoon, CL, Kim, CY, and Shin, KJ), July, 784

Utility of the Y-STR Typing Systems, Y-PLEX™ 6 and Y-PLEX™ 5 in forensic casework and 11 Y-STR haplotype database for three major population groups in the United States (Sinha, S, Budowle, B, Chakraborty, R, Paunovic, A, Guidry, RD, Larsen, C, Lal, A, Schaffer, M, Pineda, G, Sinha, SK, Schneida, E, Nasir, H, and Shewale, JG), July, 691

Y-chromosome STR system, Y-PLEX™ 12, for forensic casework: development and validation (Shewale, JG, Nasir, H, Schneida, E, Gross, AM, Budowle, B, and Sinha, SK), Nov., 1278

Human remains

Authors' response (Huxley, AH and Finnegan, M), Sept., 1138

Commentary on: Huxley, AK and Finnegan M. Human remains sold to the highest bidder! A snapshot of the buying and selling of human skeletal remains on eBay®, an Internet auction site. *J Forensic Sci* 2004;49(1):17–20 (Kubiczek, PA and Mellen, PF), Sept., 1137

Human skeleton

Human remains sold to the highest bidder! A snapshot of the buying and selling of human skeletal remains on eBay®, an Internet auction site (Huxley, AK and Finnegan, M), Jan., 17

Human taphonomy

Interpretation of postmortem change in cadavers in Spain (Prieto, JL, Magaña, C, and Ubelaker, DH), Sept., 918

Humane killer

Suicide with a butcher's bolt (Viola, L, Costantinides, F, Di Nunno, C, Battista, GM, and Di Nunno, N), May, 595

Hyaluronidase

Hyaluronidase as a liquefying agent for chemical analysis of vitreous fluid (Garg, U, Althahabi, R, Amirahmadi, V, Brod, M, Blanchard, C, and Young, T), March, 388

4-Hydroxybutyrate

Reliable, sensitive, rapid quantitative enzyme-based assay for gamma-hydroxybutyric acid (GHB) (Bravo, DT, Harris, DO, and Parsons, SM), March, 379

I

Identification methods

Population affinities of 19th century Cuban crania: implications for identification cri-

teria in South Florida Cuban Americans (Ross, AH, Slice, DE, Ubelaker, DH, and Falsetti, AB), Jan., 11

Identity theft

Exploring the psychological and somatic impact of identity theft (Sharp, T, Shreve-Neiger, A, Fremouw, W, Kane, J, and Hutton, S), Jan., 131

Impaired driving

Tramadol (Ultram®) concentrations in death investigation and impaired driving cases and their significance (Clarkson, JE, Lacy, JM, Fligner, CL, Thiersch, N, Howard, J, Harruff, RC, and Logan, BK), Sept., 1101

In memoriam

In memoriam: Kazuo Suzuki, D.D.S., Ph.D. (Noguchi, TT), March, 420

Indian population

Allele frequency distribution of D8S592 (STR) PDGFA (VNTR) among five endogenous population groups of India (Ahmad, S and Seshadri, M), July, 840

Distribution of allele frequencies for two tetranucleotide repeats (FES and D2S1328) among five Indian population groups (Ahmad, S and Seshadri, M), March, 409

Distribution of allele frequencies of a STR (D5S580) marker in five population groups of Kerala in south India (Khurana, S and Seshadri, M), Nov., 1378

Indian tribal population

Molecular genetic data at two tetranucleotide repeat loci (D12S66 and D12S67) in two Indian tribal populations (Das, B, Arun, VS, and Seshadri, M), July, 854

Infrared spectroscopy

The extraction and infrared identification of gamma-hydroxybutyric acid (GHB) from aqueous solutions (Chappell, JS, Meyn, AW, and Ngim, KK), Jan., 52

Injury

Esophageal and pharyngeal injuries associated with the use of the esophageal-tracheal combitube (Stoppacher, R, Tegatz, JR, and Jentzen, JM), May, 586

Ink dating

The identification of 2-phenoxyethanol in ballpoint inks using gas chromatography/mass spectrometry—relevance to ink dating (LaPorte, GM, Wilson, JD, Cantu, AA, Mancke, SA, and Fortunato, SL), Jan., 155

Inorganic oxidizers

Application of spectral libraries for characterization of oxidizers in post-blast residues by electrospray mass spectrometry (Gapeev, A and Yinon, J), March, 227

Insanity defense

Psychiatric and neurological characteristics of murder defendants referred for pretrial evaluation (Frierson, RL and Finkenbine, RD), May, 604

Internet

President's editorial—some thoughts on the future of scientific publishing (Singer, RL), Sept., 899

Internet auction site

Authors' response (Huxley, AH and Finnegan, M), Sept., 1138

Interrogation techniques

Review of: effective interviewing and interrogation techniques (Reed, HC), July, 875

Interviewing

Review of: effective interviewing and interrogation techniques (Reed, HC), July, 875

Introduction

Criminalistics section special session—a tribute to Walter McCrone (Stoney, DA and Gaensslen, RE), March, 263

Investigation

Review of: forensic investigation of clandestine laboratories (Cason, TD), July, 886

Review of: practical drug enforcement (Payne, DM), Jan., 197

Ion-trap mass spectrometry

Organic explosives analysis using on column-ion trap EI/NICI GC-MS with an external source (Calderara, S, Gardebas, D, Martinez, F, and Khong, SP), Sept., 1005

Iron determination

Identification of firearms holders by the [FE(PDT)3] + 2 complex. Quantitative determination of iron transfer to the hand and its dependence on palmar moisture levels (Avisar, Y, Sagiv, AE, Mandler, D, and Almog, J), Nov., 1215

Isolated death

Relationships between the deinstitutionalization of healthcare for patients with mental disorder, substance abuse, and isolated death (Thiblin, I, Fugelstad, AB, Leifman, AG, Romelsjo, AP, Agren, GS, and Sorimachi, Y), March, 354

Isotope ratio mass spectrometry (IRMS)

Stable isotope ratios as a tool in microbial forensics—Part 1. Microbial isotopic composition as a function of growth medium (Kreuzer-Martine, HW, Chesson, LA, Lott, MJ, Dorigan, JV, and Ehleringer, JR), Sept., 954

Stable isotope ratios as a tool in microbial forensics—Part 2. Isotopic variation among different growth media as a tool for sourcing origins of bacterial cells or spores (Kreuzer-Martine, HW, Chesson, LA, Lott, MJ, Dorigan, JV, and Ehleringer, JR), Sept., 961

J

Jeffrey Dahmer

Authors' response (Silva, JA, Leong, GB, and Ferrari, MM), May, 640

Commentary on: Silva, JA, et al. The case of Jeffrey Dahmer: sexual serial homicide

from a neuropsychiatric developmental perspective. *J Forensic Sci* 2002 47(6):1347–59 (Desorgher, S), May, 639

Juvenile

Review of: juvenile sexual homicide (Brenzinger, M), July, 874

K

Kazuo Suzuki

In memoriam: Kazuo Suzuki, D.D.S., Ph.D. (Noguchi, TT), March, 420

L

Latent fingerprinting

Development of a finger printing device for use on a mobile robot (Dixon, K, Wu, J, Brennan, RW, and Goldsmith, P), March, 290

Latent fingerprints

Fingerprint detection on counterfeit US banknotes: the importance of preliminary paper examination (Azoury, M, Cohen, D, Himberg, K, Quintus-Leino, P, Saari, T, and Almog, J), Sept., 1015

LC-MS

Forensic identification of dyes extracted from textile fibers by liquid chromatography mass spectrometry (LC-MS) (Huang, M, Yinon, J, and Sigman, ME), March, 238

Leucocrystal violet

A method for impregnating nylon transfer membranes with leucocrystal violet for enhancing and lifting bloody impressions (Michaud, AL and Brun-Conti, L), May, 511

Liquid chromatography-mass spectrometry

Application of spectral libraries for characterization of oxidizers in post-blast residues by electrospray mass spectrometry (Gapeev, A and Yinon, J), March, 227
Visualization and LC/MS analysis of colorless pepper sprays (Vavett, V, Waninger, EM, Krutak, JJ, and Eckenrode, BA), May, 469

Live birth

The significance of pulmonary interstitial emphysema in live birth determination (Lavezzi, WA, McKenna, BJ, and Wolf, BC), May, 546

Luetgert Murder Case

Review of: alchemy of bones: Chicago's Luetgert Murder Case of 1897 (DeHaan, JD), July, 884

M

Maggots

STR typing of human DNA from fly larvae fed on decomposing bodies (Zehner, R, Amendt, J, and Krettek, R), March, 337

Magnetic resonance imaging (MRI)

Psychiatric and neurological characteristics of murder defendants referred for pretrial evaluation (Frierson, RL and Finkenbine, RD), May, 604

Malnutrition

Does the expert witness fit the crime? Injury to a child by starvation—a dietitian's testimony (Kloiber, LL), Jan., 108

Mass disasters

The USS Iowa disaster: success of the forensic dental team (Brannon, RB and Morlang, WM), Sept., 1067

Mass fatality incidents

Enhanced kinship analysis and STR-based DNA typing for human identification in mass fatality incidents: The Swissair Flight 111 disaster (Leclair, B, Fregeau, CJ, Bowen, KL, and Fourney, RM), Sept., 939

Mass graves

Anthropological data in individualization of skeletal remains from a forensic context in Kosovo—a case history (Djuric, MP), May, 464

Factors affecting postmortem tooth loss (Duric, M, Rakocevic, Z, and Tuller, H), Nov., 1313

Matching DNA profiles

Matching and partially matching DNA profiles (Weir, BS), Sept., 1009

Medium petroleum distillates

Aromatic content in medium range distillate products. Part I: an examination of various liquids (Dolan, JA and Stauffer, E), Sept., 992

Methadone

Methadone-related deaths in Palm Beach County (Wolf, BC, Lavezzi, WA, Sullivan, LM, and Flanagan, LM), March, 375

Methamphetamine

Distribution and optical purity of methamphetamine found in toxic concentration in a civil aviation accident pilot fatality (Chaturvedi, AK, Cardona, PS, Soper, JW, and Canfield, DV), July, 832

Review of: methamphetamine use, clinical and forensic aspects (Larsen, Jr, AK), Sept., 1140

Use of MDA (the Love Drug) and methamphetamine in Toronto by unsuspecting users of Ecstasy (MDMA) (Kalasinsky, KS, Hugel, J, and Kish, SJ), Sept., 1106

Methyl acetylene

Fatality due to methyl acetylene-propadiene (MAPP) inhalation (Avella, J and Lehrer, M), Nov., 1361

Microsatellite

Characterization of TP53 microsatellite locus among selected ethnic populations of India (Ghosh, A and Seshadri, M), Jan., 174

Microsatellites

Assignment of paternity in a judicial dispute between two neighbor Holstein dairy farm-

ers (Lirón, JP, Ripoli, MV, García, PP, and Giovambattista, G), Jan., 96

Microscopic comparison

A comparison study of hair examination methodologies (Kolowski, JC, Petracco, N, Wallace, MM, De Forest, PR, and Printz, M), Nov., 1253

Microscopy

Dr. Walter McCrone's contributions to microscopy workshops and the certification of criminalists (Peterson, JL), March, 267

Review of: Color atlas and manual of microscopy for criminalists, chemists, and conservators (Palenik, S), Sept., 1142

Minimal Y-chromosome haplotype

Minimal Y-chromosome haplotypes plus DYS287 in Jewish populations (Picornell, A, Jiménez, G, Castro, JA, and Ramon, MM), March, 410

Miniplex

A study on the effects of degradation and template concentration on the amplification efficiency of the STR miniplex primer sets (Chung, DT, Drabek, J, Opel, KL, Butler, JM, and McCord, BR), July, 733

Concordance study between miniplex assays and a commercial STR typing kit (Drabek, J, Chung, DT, Butler, JM, and McCord, BR), July, 859

MiniSTR

Concordance study between miniplex assays and a commercial STR typing kit (Drabek, J, Chung, DT, Butler, JM, and McCord, BR), July, 859

Mitochondrial DNA

A minimally destructive technique for sampling dentin powder for mitochondrial DNA testing (Shiroma, CY, Fielding, CG, Lewis Sr., JA, Gleisner, MR, and Dunn, KN), July, 791

Addressing the use of phylogenetics for identification of sequences in error in the SWGDAM mitochondrial DNA database (Budowle, B, Polanskey, D, Allard, MW, and Chakraborty, R), Nov., 1256

Common mitochondrial DNA deletion associated with sudden natural death in adults (Polisecki, EY, Schreier, LE, Ravioli, J, and Corach, D), Nov., 1335

Mitochondrial DNA heteroplasmy among hairs from single individuals (Sekiguchi, K, Sato, H, and Kasai, K), Sept., 986

Mosaicism

A genetic basis for anomalous band patterns encountered during DNA STR profiling (Clayton, TM, Guest, JL, Urquhart, AJ, and Gill, PD), Nov., 1207

Mouth alcohol

The effect of breath freshener strips on two types of breath alcohol testing instruments (Moore, RL and Guillen, J), July, 829

Multidisciplinary approach

Review of: practical aspects of rape

investigation: a multidisciplinary approach, 3rd ed. (Bashinski, JS), July, 889

Multiplex

Developmental validation of a single-tube amplification of the 13 CODIS STR loci, D2S1338, D19S433 and amelogenin: the AmpFISTR identifier PCR amplification kit (Collins, PJ, Hennessy, LK, Leibel, CS, Roby, RK, Reeder, DJ, and Foxall, PA), Nov., 1265

Genotype distribution of DYS385 and D10S676 in Chinese Han population of Yunnan Province (Cheng, BW and Xiao, CJ), Sept., 1124

Y-chromosome STR system, Y-PLEX™ 12, for forensic casework: development and validation (Shewale, JG, Nasir, H, Schneida, E, Gross, AM, Budowle, B, and Sinha, SK), Nov., 1278

Multiplex Y-STR analysis

SWGAM developmental validation of a 19-locus Y-STR system for forensic casework (Daniels, DL, Hall, AM, and Ballantyne, J), July, 668

Murder

Review of: alchemy of bones: Chicago's Luetgert Murder Case of 1897 (DeHaan, JD), July, 884

Mummies

Review of: the scientific study of mummies (Ubelaker, DH), July, 878

Mummy analysis

Review of: the scientific study of mummies (Ubelaker, DH), July, 878

Muscle tissue decomposition

A laboratory incubation method for determining the rate of microbiological degradation of skeletal muscle tissue in soil (Tibbett, M, Carter, DO, Haslam, T, Major, R, and Haslam, R), May, 560

Muscone

Characterization of allegedly musk-containing medicinal products in Taiwan (Lin, DL, Chang, HC, and Huang, SH), Nov., 1188

Musk deer

Characterization of allegedly musk-containing medicinal products in Taiwan (Lin, DL, Chang, HC, and Huang, SH), Nov., 1187

N

Nailgun

Suicide with a butcher's bolt (Viola, L, Costantinides, F, Di Nunno, C, Battista, GM, and Di Nunno, N), May, 595

Negative control

Development of a simulation model to assess the impact of contamination in case-work using STRs (Gill, P and Kirkham, A), May, 485

Neglect

Estimation of caloric deficit in a fatal case of starvation resulting from child neglect (Nagao, M, Maeno, Y, Koyama, H, Seko-Nakamura, Y, Monma-Ohtaki, J, Iwasa, M, Zhe, LX, Kawashima, N, and Yano, T), Sept., 1073

Neural networks

Estimation of bullet striation similarity using neural networks (Banno, A), May, 500

Neurodevelopmental mechanisms

Review of: neurodevelopmental mechanisms in psychopathology (Malvade, K and Billick, SB), July, 892

New York City

Authors' response (Gill, JR and Lenz, KA), May, 638

Ninhydrin

Fingerprint detection on counterfeit US banknotes: the importance of preliminary paper examination (Azoury, M, Cohen, D, Himberg, K, Quintus-Leino, P, Saari, T, and Almog, J), Sept., 1015

Nitrites in urine

Analysis of nitrite in adulterated urine samples by capillary electrophoresis (Kinkennon, AE, Black, DL, Robert, TA, and Stout, PR), Sept., 1094

5-(4-Nitrophenyl)-2,4-pentadien-1-al (NPPD)

Evaluation of 5-(4-Nitrophenyl)-2, 4-pentadien-1-al (NPPD) as a tracer for shadowing pursuits (Ohta, H, Suzuki, Y, Sugita, R, Kasamatsu, M, Marumo, Y, and Suzuki, S), May, 517

Non-invasive autopsy

Visualization and quantification of air embolism structure by processing postmortem MSCT data (Jackowski, C, Thali, M, Sonnenschein, M, Aghayev, E, Yen, K, Dirmhofer, R, and Vock, P), Nov., 1339

O

Obliterated writing

Comparison of near infrared light photography and middle infrared light photography for deciphering obliterated writings (Sugawara, S), Nov., 1349

Occipitoatlantal dislocations

Homicide by manual occipitoatlantal dislocation (Raul, JS, Tracqui, A, and Ludes, B), May, 601

Odontology

Self-extraction of teeth involving gamma-hydroxybutyric acid (Pretty, IA and Hall, RC), Sept., 1069

Odor analysis

Decompositional odor analysis database (Vass, AA, Smith, RR, Thompson, CV, Burnett, MN, Wolf, DA, Synsteliën, JA, Dulgerian, N, and Eckenrode, BA), July, 760

Old and burned bones

A simple and efficient method for extracting DNA from old and burned bone (Ye, J, Ji, A, Parra, EJ, Zheng, XF, Jiang, CT, Zhao, XC, Hu, L, and Tu, Z), July, 754

Oleoresin capsicum

Visualization and LC/MS analysis of colorless pepper sprays (Vavett, V, Waninger, EM, Krutak, JJ, and Eckenrode, BA), May, 469

On-site

Review of: on-site drug testing (Larsen, Jr., AK), Sept., 1139

Opiates

Screening postmortem whole blood for oxycodone by ELISA response ratios (Spiehler, VR, DeCicco, L, McCutcheon, JR, Kupiec, T, and Kemp, P), May, 621

Organ weights

Fifteen year retrospective study of infant organ weights and revision of standard weight tables (Thompson, WS and Cohle, SD), May, 575

Os coxae

Reconsidering the auricular surface as an indicator of age at death (Osborne, DL, Simmons, TL, and Nawrocki, SP), Sept., 905

Oxycodone

Author's response (Burrows, D), May, 644
Author's response to Borrows, DL, et al. A fatal drug interaction between oxycodone and clonazepam (Paper ID#2003298) (Burrows, D), May, 642

Commentary on: Borrows, DL, et al. A fatal drug interaction between oxycodone and clonazepam. J Forensic Sci 2003;48(3):683-86 (Haddox, JD and Carrig, B), May, 643

Commentary on: Borrows, DL, et al. A fatal drug interaction between oxycodone and clonazepam. J Forensic Sci 2003;48(3):683-86 (Palmer, RB and Dart, RC), May, 641

Oxycodone intoxication in an infant: accidental or intentional exposure? (Levine, B, Moore, KA, Aronica-Pollak, P, and Fowler, DF), Nov., 1358

Screening postmortem whole blood for oxycodone by ELISA response ratios (Spiehler, VR, DeCicco, L, McCutcheon, JR, Kupiec, T, and Kemp, P), May, 621

P

Paraphilia

Treatment of paraphilia in young adults with leuprolide: a preliminary case report series (Saleh, FM, Niel, T, and Fishman, MJ), Nov., 1343

Partitions

The distribution of sevoflurane in a sevoflurane induced death (Burrows, DL, Nicolaidis, A, Stephens, GC, and Ferslew, KE), March, 394

Paternity testing

Human Y-chromosomal short tandem repeat DXYS156 in an Indian population sample (Ghosh, A and Seshadri, M), May, 635
 Unusual association of three rare alleles and a mismatch in a case of paternity testing (Turchi, C, Pesaresi, M, Alessandrini, F, Onofri, V, Arseni, A, and Tagliabracci, A), March, 260

Pathology

Review of: forensic pathology (2nd edition) (Bell, MD), July, 887

PCR

Developmental validation of a single-tube amplification of the 13 CODIS STR loci, D2S1338, D19S433 and amelogenin: the AmpFISTR identifier PCR amplification kit (Collins, PJ, Hennessy, LK, Leibelt, CS, Roby, RK, Reeder, DJ, and Foxall, PA), Nov., 1265
 Distribution of D1S80 alleles and their Tsp5091 subtypes in Romanian population (Ceacareanu, AC, Ceacareanu, B, Ofiteru, A, Rodewald, A, and Szegli, G), July, 865

Peak heights

Systematic differences in electropherogram peak heights reported by different versions of the GeneScan® Software (Gilder, JR, Ford, S, Doom, TE, Raymer, ML, and Krane, DE), Jan., 92

Pelvis

The determination of male adult age at death by central and posterior coxal analysis—a preliminary study (Telmon, N, Rissech, C, Malgosa, A, Rougé, D, and Rouge-Maillart), March, 208

Peroxide explosives

Trace analysis of peroxide explosives by high performance liquid chromatography-atmospheric pressure chemical ionization-tandem mass spectrometry (HPLC-APCI-MS/MS) for forensic applications (Xu, X, van de Craats, AM, Kok, EM, and de Bruyn, P), Nov., 1230

Personality profile

Authors' response (Silva, JA, Leong, GB, and Ferrari, MM), May, 640

Photocopiers

The use of an electrostatic detection device to identify individual and class characteristics on documents produced by printers and copiers—a preliminary study (LaPorte, GM), May, 610

Phylogenetics

Addressing the use of phylogenetics for identification of sequences in error in the SWGDAM mitochondrial DNA database (Budowle, B, Polansky, D, Allard, MW, and Chakraborty, R), Nov., 1256

Pigment microscopy

A selection of some of Dr. McCrone's high and low profile cases in forensic analysis of art (Stoney, DA), March, 280

Pipe bombs

Using STR analysis to detect human DNA from exploded pipe bomb devices (Esslinger, KJ, Siegel, JA, Spillane, H, and Stallworth, S), May, 481

Poisoning

Review of: Dreisbach's handbook of poisoning (Logan, BK), July, 872

Polarized light microscopy

Dr. Walter C. McCrone's contribution to the characterization and identification of explosives (Hopen, TJ), March, 275

Polyethylene glycol

A case study on forensic polymer analysis by DIOS-MS: the suspect who gave us the SLIP (Shen, ZX, Thomas, JJ, Siuzdak, G, and Blackledge, RD), Sept., 1028

Polymer

Thermogravimetric analysis as a polymer identification technique in forensic applications (Ihms, EC and Brinkman, DW), May, 505

Polymerase chain reaction

Allele frequencies and statistical parameters for Penta E and Penta D STR loci in Córdoba (Argentina) population (Miozzo, MC, Maxzud, MK, Casanova, AE, Mutal, SA, Pacharoni, C, and Modesti, NM), March, 407

Allele frequencies for markers CSF1PO, TPOX, TH01, F13A01, FESFPS, vWA, D16S539, D7S820, D13S317 in the general population of Nicaragua (Flores-Obando, RE, Budowle, B, and Huete-Pérez, JA), March, 416

Allele frequencies for two STR Loci D5S2500, D10S676 in a Chinese population (Gao, YZ and Xia, SX), July, 858

Analysis of Penta D (15q) and Penta E (21q) STR polymorphism in a Southern Italian population sample (Asmundo, A, Sapienza, D, and Crino, C), Sept., 1128

Distribution of D3S1358, vWA and D13S317 alleles in Chinese population (Ying, BW, Chen, JH, Wang, JP, Shi, MS, Deng, JQ, Li, YB, Wu, J, Zhang, J, Yan, J, Lin, W, and Hou, BS), Jan., 165

Distribution of HLA-DQA1, LDLR, GYPA, HBG, D7S8, and Gc alleles in a black population sample from Sao Paulo, Brazil (Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Figaro Gattas, GJ, Bydowski, SP, and Otto, PA), Nov., 1374

Effects of processing techniques on the forensic DNA analysis of human skeletal remains (Arismendi, JL, Baker, LE, and Matteson, KJ), Sept., 930

Enhanced kinship analysis and STR-based DNA typing for human identification in mass fatality incidents: The Swissair Flight 111 disaster (Leclair, B, Fregeau, CJ, Bowen, KL, and Fournay, RM), Sept., 939

Evaluation of five short tandem repeat loci among north Indian Muslim populations (Khan, F, Pandey, AK, Tripathi, M, Talwar, S, and Agrawal, S), July, 866

Genetic profile of two STR loci D1S2134, D2S2944 in Chinese population (Zhou, XP, Zhang, WJ, Jia, ZJ, Wu, J, Hou, YP, Li, YB, and Gao, YZ), Jan., 166

Genotype distribution of DYS385 and D10S676 in Chinese Han population of Yunnan Province (Cheng, BW and Xiao, CJ), Sept., 1124

Population data of two X-chromosome STR loci GATA186D06 and GATA198A10 in China (Deng, JQ, Shi, MS, Ying, BW, Jia, ZJ, Hou, YP, Suo, YP, Li, YB, Wu, J, Yan, J, Wang, XD, Dai, HL, and Zhu, QF), Jan., 173

Y-chromosome STR system, Y-PLEX™ 12, for forensic casework: development and validation (Shewale, JG, Nasir, H, Schneida, E, Gross, AM, Budowle, B, and Sinha, SK), Nov., 1278

Polymorphism

Distribution of D1S80 alleles and their Tsp5091 subtypes in Romanian population (Ceacareanu, AC, Ceacareanu, B, Ofiteru, A, Rodewald, A, and Szegli, G), July, 865

The autosomal STR frequencies in Pakistani populations (Hadi, S, Vanezis, P, and Goodwin, W), July, 868

Polymorphism chain reaction

Polymorphism data of two STR loci DYS632 and DYS634 in a Chinese Han population (Yun, LB, Ying, BW, Gu, Y, Fang, YQ, Sun, XM, Huang, J, Zhang, J, Li, YB, Wu, J, and Hou, YP), Nov., 1373

Polypropylene

Postmortem analysis of anastomotic suture line disruption following carotid endarterectomy (Melinek, J, Lento, P, and Moalli, J), Sept., 1077

Population data

Eight short tandem repeats (STR) frequencies for descendants from Terena indigenous Brazilian group (Silva, DA, Góes, AC, and Carvalho, EF), March, 398

Population genetics

Allele frequencies and statistical parameters for Penta E and Penta D STR loci in Córdoba (Argentina) population (Miozzo, MC, Maxzud, MK, Casanova, AE, Mutal, SA, Pacharoni, C, and Modesti, NM), March, 407

Allele frequencies for the PowerPlex® 16 STR loci in Javanese population in Malaysia (Othman, MI, Seah, LH, Panneerchelvam, S, and Nor, NM), Jan., 190

Allele frequencies for two STR loci D5S2500, D10S676 in a Chinese population (Gao, YZ and Xia, SX), July, 858

Allele frequencies of 15 Loci using AmpFISTR identifier kit in a Northern Portuguese population (Abrantes, D, Lima, G, Caimé, L, and Pinheiro, F), July, 842

Allele frequencies of four STR loci in Eastern Chinese population (Gao, YZ and Xia, SX), March, 404

- Allele frequencies of six STR loci (D3S4536, D4S2633, D5S2500, D9S925, D9S1118, and D20S481) in Chinese Han population (Huang, D, Yang, QG, and Yu, C), March, 413
- Allele frequency data for profiler plus loci in Australia (Weir, BS, Badgondavicius, A, Blair, B, Eckhoff, C, Pearman, C, Stringer, P, Sutton, J, Wynen, L, and West, J), Sept., 1121
- Allele frequency distribution for 9 STR loci in the Tamil population of Malaysia (Panneerchelvam, S, Thevan, K, Kok-Fai, L, Saravanakumar, M, Sumathy, V, Yuvaneswari, KC, and Norazmi, MN), July, 863
- Allelic frequencies of three X-Y homologous STR loci in Chinese population (Shi, MS, Deng, JQ, Jia, ZJ, Ying, BW, Li, YB, Wu, J, Hou, YP, and Zhang, J), Sept., 1130
- Autosomal STR Loci (HUMTPOX, HUMTH01, HUMVWA, D18S535, D1S1656 and D12S391) in San Salvador (El Salvador, Central America) (Martinez-Jarreta, B, Vasquez, P, Abecia, E, Garde, M, Budowle, B, and de Blas, I), May, 633
- Brasilian Caucasian population data for 15 STR loci (Powerplex 16™ kit) (Figueiredo, MS, Fernandez-Rosado, F, Kunii, I, Pacheco, AC, Lorente, JA, and Budowle, B), Jan., 167
- Distribution of allele frequencies of a STR (D5S580) marker in five population groups of Kerala in south India (Khurana, S and Seshadri, M), Nov., 1378
- Distribution of HLA-DQA1, LDLR, GYPA, HBGG, D7S8, and Gc alleles in a black population sample from Sao Paulo, Brazil (Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Figaro Gattas, GJ, Bydlowski, SP, and Otto, PA), Nov., 1374
- Distributions of allelic frequencies and haplotypes of two new STR loci in a Chinese Han population (Jia, ZJ, Wu, J, Zhang, WJ, Zhou, XP, Deng, JQ, Hou, YP, Zhang, J, Ying, BW, Yan, J, Gao, X, and Li, YB), Jan., 189
- Distributions of allelic frequencies and haplotypes of two new STR loci in a Chinese Han population (Jia, ZJ, Wu, J, Hou, YP, Zhou, XP, Zhang, WJ, Deng, JQ, Zhang, J, Ying, BW, Shi, MS, and Yan, J), March, 409
- Distributions of allelic frequencies and haplotypes of three new STR loci in a Chinese Han population (Jia, ZJ, Li, YB, Li, H, Zhou, XP, Zhang, WJ, Wang, SL, Wu, J, Deng, JQ, Zhang, J, and Hou, YP), Nov., 1367
- Eastern Chinese population data on four STR forensic loci: CSF1P0, TH01, TPOX, vWA (Gao, YZ, Xia, SX, Wang, ZF, Zhang, ZX, and Bian, SZ), July, 838
- Genetic analysis of large data sets of North American Black, Caucasian and Hispanic populations at 13 CODIS STR loci (Einum, DD and Scarpetta, M), Nov., 1381
- Genetic data of 8 Y-chromosome STRs in males from Santa Catarina, Brazil (Cainé, LM, Pontes, L, Abrantes, D, Lima, G, and Pinheiro, F), Sept., 1125
- Genetic data of two STR loci D4S2367, D20S601 in Chinese population (Zhou, XP, Bai, P, Zhang, WJ, Jia, ZJ, Wu, J, Li, YB, and Hou, YP), Nov., 1380
- Genetic diversity of sixteen STRs in the Peruvian Mesa Redonda Lima population (Tito, RY, López, PW, Iannacone, GC, and Lizárraga, B), July, 852
- Genetic polymorphism for two STR loci D4S2639 and D4S1644 in a Chinese population (Wang, ZF, Gao, YZ, Xia, SX, and Zhang, ZX), Nov., 1386
- Genetic profile of two STR loci D1S2134, D2S2944 in Chinese population (Zhou, XP, Zhang, WJ, Jia, ZJ, Wu, J, Hou, YP, Li, YB, and Gao, YZ), Jan., 166
- Genetic variation of two new STR Loci D2S1399, D16S3391 in a Chinese population (Gao, YZ and Xia, SX), July, 839
- Northwest Italian population data for thirteen tetrameric and two pentameric STR loci (Robino, C, Gino, S, Inturri, S, and Torre, C), March, 405
- Polymorphism of 9 STRs in ethnic Chinese population of Malaysia (Panneerchelvam, S, Thevan, K, Fai, LK, Saravanakumar, M, Sumathy, V, Yuvaneswari, KC, and Norazmi, MN), Sept., 1132
- Polymorphisms of D1S80 and 3' ApoB minisatellite loci in Northern Caucasus populations (Verbenko, DA, Pocheshkhova, EA, Balanovskaya, EV, Marshanija, EZ, Kvitzinija, PK, and Limborska, SA), Jan., 178
- Population data on 15 STR loci (Powerplex 16™ kit) in a Costa Rica (Central America) sample population (Melendez, E, Martinez-Espin, E, Karlson, IS, Lorente, JA, and Budowle, B), Jan., 170
- Population data on 9 STR loci in Crete (Greece) (Petridis, G, Abaci-Kalfoglou, E, Christakis-Hampsas, MG, Ferke, A, Filoglu, G, Kapsali, Y, Atasoy, S, and Michalodimitrakis, M), Nov., 1368
- Population genetic data at two minisatellites (D19S20 and APOB 3' VNTR) between two tribal populations from central India (Das, B and Seshadri, M), Nov., 1376
- Population genetics of eleven STR loci in the State of Sergipe, Northeastern Brazil (Pimentel, BJ, de Azevedo, DA, and da Silva, LA), March, 402
- Population genetics of two STR loci D2S1396 and D6S474 in a Chinese population (Zhang, WJ, Wu, J, Jia, ZJ, Zhou, XP, Li, YB, Yan, J, Ying, BW, Zhang, J, and Hou, YP), March, 415
- Population genetics of two STR loci D4S2366 and D6S1281 in a Chinese population (Zhang, WJ, Li, YB, Zhou, XP, Jia, ZJ, Gao, YZ, Yan, J, Wu, J, Zhang, J, and Hou, YP), Jan., 183
- Y-Chromosomal STR loci data in Japanese using the Y-PLEX™ 5 and Y-PLEX™ 6 PCR amplification kits (Kido, A, Hara, M, Kameyama, H, Yamamoto, Y, Sudukida, R, and Oya, M), July, 849
- Y-STR haplotypes from eight south Indian groups based on five loci (Cordaux, R, Bentley, G, Aunger, R, Sirajuddin, SM, and Stoneking, M), July, 847

Population structure

Matching and partially matching DNA profiles (Weir, BS), Sept., 1009

Porosity

Fingerprints' third dimension: the depth and shape of fingerprints penetration into paper—cross section examination by fluorescence microscopy (Almog, J, Azoury, M, Elmaliah, Y, Berenstein, L, and Zaban, A), Sept., 981

Posing

The rarity of unusual dispositions of victim bodies: staging and posing (Keppel, RD and Weis, JG), Nov., 1308

Post-blast

Trace analysis of peroxide explosives by high performance liquid chromatography-atmospheric pressure chemical ionization-tandem mass spectrometry (HPLC-APCI-MS/MS) for forensic applications (Xu, X, van de Craats, AM, Kok, EM, and de Bruyn, P), Nov., 1230

Post-explosion analysis

Improved method for the detection of TATP after explosion (Muller, D, Levy, A, Shelef, R, Abramovich-Bar, S, Sonenfeld, D, and Tamiri, T), Sept., 935

Post-explosion residues

Highly sensitive screening method for nitroaromatic, nitramine and nitrate ester explosives by high performance liquid chromatography-atmospheric pressure ionization-mass spectrometry (HPLC-API-MS) in forensic applications (Xu, X, de Craats, AM, and de Bruyn, P), Nov., 1171

Trace analysis of peroxide explosives by high performance liquid chromatography-atmospheric pressure chemical ionization-tandem mass spectrometry (HPLC-APCI-MS/MS) for forensic applications (Xu, X, van de Craats, AM, Kok, EM, and de Bruyn, P), Nov., 1230

Postmortem

Nutritional status of deceased illicit drug addicts in Stockholm, Sweden—a longitudinal medico-legal study (Rajs, J, Pettersson, A, Thiblin, I, Olsson-Mortlock, C, Fredriksson, A, and Eksborg, S), March, 320

Oxycodone intoxication in an infant: accidental or intentional exposure? (Levine, B, Moore, KA, Aronica-Pollak, P, and Fowler, DF), Nov., 1358

Postmortem chemistry

Hyaluronidase as a liquefying agent for chemical analysis of vitreous fluid (Garg, U,

Althahabi, R, Amirahmadi, V, Brod, M, Blanchard, C, and Young, T), March, 388

Postmortem genital examination

A mobile system for postmortem genital examinations with colposcopy: SART-TO-GO (Crowley, SR), Nov., 1299

Postmortem injuries

Unusual characteristic patterns of postmortem injuries (Asamura, H, Takayanagi, K, Ota, M, Kobayashi, K, and Fukushima, H), May, 592

Postmortem interval

Estimation of postmortem interval (PMI) as revealed through the analysis of annual growth in woody tissue (Courtin, GM and Fairgrieve, SI), July, 781

Mitochondrial DNA and STR analyses of maggot crop contents: effect of specimen preservation technique (Linville, JG, Hayes, J, and Wells, JD), March, 341

Postmortem interval (PMI)

Interpretation of postmortem change in cadavers in Spain (Prieto, JL, Magaña, C, and Ubelaker, DH), Sept., 918

Postmortem submersion interval

Pig decomposition in lotic aquatic systems: the potential use of algal growth in establishing a postmortem submersion interval (PMSI) (Haefner, JN, Wallace, JR, and Merritt, RW), March, 330

Postmortem toxicology

Stability of drugs in stored postmortem femoral blood and vitreous humor (Holmgren, P, Druid, H, Holmgren, A, and Ahlner, J), July, 820

Postprocessing

Visualization and quantification of air embolism structure by processing postmortem MSCT data (Jackowski, C, Thali, M, Sonnenschein, M, Aghayev, E, Yen, K, Dirnhofer, R, and Vock, P), Nov., 1339

PowerPlex® 16 BIO system

Validation and implementation of PowerPlex® 16 BIO system STR multiplex for forensic casework (Greenspoon, SA, Ban, JD, Pablo, L, Crouse, CA, Kist, FG, Tomsey, CS, Glessner, AL, Mihalacki, LR, Long, TM, Heidebrecht, BJ, Braunstein, CA, Freeman, DA, Soberalski, C, Bruesehoff, N, Amin, AS, Douglas, EK, and Schumm, JW), Jan., 71

Primates

Evaluation of an automated liquid hybrid hybridization method for DNA quantitation (Hayn, S, Wallace, MM, Prinz, M, and Shaler, RC), Jan., 87

Printers

The use of an electrostatic detection device to identify individual and class characteristics on documents produced by

printers and copiers—a preliminary study (LaPorte, GM), May, 610

Prison

Discriminating deliberate self-harm (DSH) in young prison inmates through personality disorder (Mohino, JS, Ortega-Monasterio, GL, Planchat, LM, Cuquerella, FA, Talón, T, and Macho, JL), Jan., 137

Products liability

Review of: science and litigation: products liability in theory and practice (Grey, BT), July, 882

Propellant residue

A novel method for extraction and analysis of gunpowder residues on double-side adhesive coated stubs (Zeichner, A and Eldar, B), Nov., 1194

Psychopathology

Review of: neurodevelopmental mechanisms in psychopathology (Malvade, K and Billick, SB), July, 892

Published works

Published works of Walter C. McCrone (Weaver, RM), March, 283

3-(2-Pyridyl)-5,6-diphenyl-1,2,4-triazine

Identification of firearms holders by the [FE(PDT)3] + 2 complex. Quantitative determination of iron transfer to the hand and its dependence on palmar moisture levels (Avissar, Y, Sagiv, AE, Mandler, D, and Almog, J), Nov., 1215

Q

Questioned document

Comparison of near infrared light photography and middle infrared light photography for deciphering obliterated writings (Sugawara, S), Nov., 1349

Questioned documents

Differentiation of black gel inks using optical and chemical techniques (Wilson, JD, LaPorte, GM, and Cantu, AA), March, 364

The identification of 2-phenoxyethanol in ballpoint inks using gas chromatography/mass spectrometry—relevance to ink dating (LaPorte, GM, Wilson, JD, Cantu, AA, Mancke, SA, and Fortunato, SL), Jan., 155

The use of an electrostatic detection device to identify individual and class characteristics on documents produced by printers and copiers—a preliminary study (LaPorte, GM), May, 610

R

Race determination

A proposed method for the identification of race in sub-adult skeletons: a geometric morphometric analysis of mandibular mor-

phology (Buck, TJ and Vidarsdottir, US), Nov., 1159

Radioimmunoassay

Use of solid-phase double-antibody radioimmunoassay to identify species from small skeletal fragments (Ubelaker, DH, Lowenstein, JM, and Hood, DG), Sept., 924

Rape

Evaluation of three rapid detection methods for the forensic identification of seminal fluid in rape cases (Khalidi, N, Miras, A, Botti, K, Benali, L, and Gromb, S), July, 749

Review of: practical aspects of rape investigation: a multidisciplinary approach, 3rd ed. (Bashinski, JS), July, 889

Rare alleles

Unusual association of three rare alleles and a mismatch in a case of paternity testing (Turchi, C, Pesaresi, M, Alessandrini, F, Onofri, V, Arseni, A, and Tagliabracci, A), March, 260

RDNA

Establishing the rDNA IGS structure of Cannabis Sativa (Hsieh, HM, Hou, RJ, Chen, KF, Tsai, LC, Liu, SW, Liu, KL, Linacre, A, and Lee, JC), May, 477

Recognition

In recognition and appreciation—guest and invited reviewers—2003 (Peat, MA), July, 837

Reconstruction

Review of: vehicular accident investigation and reconstruction (Batterman, SC), Sept., 1144

Virtopsy: forensic traumatology of the subcutaneous fatty tissue; multislice computed tomography (MSCT) and magnetic resonance imaging (MRI) as diagnostic tools (Yen, K, Vock, P, Tiefenthaler, B, Ranner, G, Scheurer, E, Thali, MJ, Zwygart, K, Sonnenschein, M, Wiltgen, M, and Dirnhofer, R), July, 799

Religious delusion

Enucleation in psychosis associated with aqueductal stenosis (Mancinelli, I, Pompili, M, Scapati, F, Lazanio, S, Kotzalidis, GD, and Tatarelli, R), March, 361

Respiration

A laboratory incubation method for determining the rate of microbiological degradation of skeletal muscle tissue in soil (Tibbett, M, Carter, DO, Haslam, T, Major, R, and Haslam, R), May, 560

RFLP

Distribution of D1S80 alleles and their Tsp5091 subtypes in Romanian population (Ceacareanu, AC, Ceacareanu, B, Ofiteru, A, Rodewald, A, and Szeqli, G), July, 865

Rib fractures

Understanding rib fracture patterns: incomplete and buckle fractures (Love, JC and Symes, SA), Nov., 1153

Robotics

Development of a finger printing device for use on a mobile robot (Dixon, K, Wu, J, Brennan, RW, and Goldsmith, P), March, 290

S**Safety helmet detection**

The safety helmet detection technology and its application to the surveillance system (Wen, CY), July, 770

Sample population

Commentary on: Budowle, B, Shea, B, Niezgoda, S, et al. CODIS STR loci data from 41 sample populations. *J Forensic Sci* 2001;46:453–89 (Krane, DE, Doom, TE, Mueller, L, Raymer, ML, Shields, WM, and Thompson, WC), Nov., 1388

Scale

Old dogs can learn new tricks—a new application of the ABFO #2 scale (Kaminski, JA), Nov., 1332

Scavenging

Erratum/correction of Puskas CM, Rummey DT. Bilateral fractures of the coronoid processes: differential diagnosis of intra-oral gunshot trauma and scavenging using a sheep crania model. *J Forensic Sci* 2003 Nov;48(6) (Puskas, CM), Jan., 198

Science and litigation

Review of: science and litigation: products liability in theory and practice (Grey, BT), July, 882

Screening tests

Rapid screening of selected organic explosives by high performance liquid chromatography using reversed-phase monolithic columns (Doble, P, Paull, B, Roux, C, and Dawson, M), Nov., 1181

Selected-ion mass spectrometry

Evaluation of 5-(4-nitrophenyl)-2, 4-pentadien-1-al (nppd) as a tracer for shadowing pursuits (Ohta, H, Suzuki, Y, Sugita, R, Kasamatsu, M, Marumo, Y, and Suzuki, S), May, 517

Selection

Attributes of specialist search dogs—a questionnaire survey of UK dog handlers and trainer (Rooney, NJ, Bradshaw, JW, and Almey, H), March, 300

Seminal fluid

Evaluation of three rapid detection methods for the forensic identification of seminal fluid in rape cases (Khaldi, N, Miras, A, Botti, K, Benali, L, and Gromb, S), July, 749

Serial murder

Frequency of serial sexual homicide victimization in Virginia for a ten-year period (McNamara, JJ and Morton, RJ), May, 529

Sex dimorphism

Cremation weights in East Tennessee (Bass, WM and Jantz, RL), Sept., 901

Sexing

Further evidence to show population specificity of discriminant function equations for sex determination using the talus of South African Blacks (Bidmos, MA and Dayal, MR), Nov., 1164

Sexual dimorphism of the calcaneus of South African Blacks (Bidmos, MA and Asala, SA), May, 446

Sex-related homicide

Review of: sex-related homicide and death investigation: practical and clinical perspectives (Davis, GJ), July, 873

Sexual assault

A case study on forensic polymer analysis by DIOS-MS: the suspect who gave us the SLIP (Shen, ZX, Thomas, JJ, Siuzdak, G, and Blackledge, RD), Sept., 1028

Sexual homicide

Frequency of serial sexual homicide victimization in Virginia for a ten-year period (McNamara, JJ and Morton, RJ), May, 529
Review of: juvenile sexual homicide (Brenzinger, M), July, 874

Sexual serial homicide

Commentary on: Silva, JA, et al. The case of Jeffrey Dahmer: sexual serial homicide from a neuropsychiatric developmental perspective. *J Forensic Sci* 2002 47(6):1347–59 (Desorgher, S), May, 639

Short tandem repeat

Allele frequency distribution of STR loci D5S2848 in four populations (Xu, Y, Lv, M, Liang, W, Gou, H, and Zhang, L), Nov., 1371

Distributions of allelic frequencies and haplotypes of three new STR loci in a Chinese Han population (Jia, ZJ, Li, YB, Li, H, Zhou, XP, Zhang, WJ, Wang, SL, Wu, J, Deng, JQ, Zhang, J, and Hou, YP), Nov., 1367

Polymorphism data of two STR loci DYS632 and DYS634 in a Chinese Han population (Yun, LB, Ying, BW, Gu, Y, Fang, YQ, Sun, XM, Huang, J, Zhang, J, Li, YB, Wu, J, and Hou, YP), Nov., 1373

The autosomal STR frequencies in Pakistani populations (Hadi, S, Vanezis, P, and Goodwin, W), July, 868

Short tandem repeats

A study on the effects of degradation and template concentration on the amplification efficiency of the STR miniplex primer sets (Chung, DT, Drabek, J, Opel, KL, Butler, JM, and McCord, BR), July, 733

Allele frequencies and statistical parameters for Penta E and Penta D STR loci in Córdoba (Argentina) population (Miozzo, MC, Maxzud, MK, Casanova, AE, Mutal, SA, Pacharoni, C, and Modesti, NM), March, 407

Allele frequencies for the PowerPlex® 16 STR loci in Javanese population in Malaysia (Othman, MI, Seah, LH, Panneerchelvam, S, and Nor, NM), Jan., 190

Allele frequencies of 15 loci using AmpFISTR identifier kit in a Northern Portuguese population (Abrantes, D, Lima, G, Cainé, L, and Pinheiro, F), July, 842

Allele frequencies of four STR loci in Eastern Chinese population (Gao, YZ and Xia, SX), March, 404

Allele frequency data for profiler plus loci in Australia (Weir, BS, Badgondavicius, A, Blair, B, Eckhoff, C, Pearman, C, Stringer, P, Sutton, J, Wynen, L, and West, J), Sept., 1121

Allele frequency distribution of D8S592 (STR) PDGFA (VNTR) among five endogamous population groups of India (Ahmad, S and Seshadri, M), July, 840

Allele frequency distribution of two X-chromosomal STR loci in Han population in China (Lv, M, Liang, W, Wu, MY, Zhou, B, Jia, Y, and Zhang, L), March, 418

Allelic frequencies of three X-Y homologous STR loci in Chinese population (Shi, MS, Deng, JQ, Jia, ZJ, Ying, BW, Li, YB, Wu, J, Hou, YP, and Zhang, J), Sept., 1130

Analysis of Penta D (15q) and Penta E (21q) STR polymorphism in a Southern Italian population sample (Asmundo, A, Sapienza, D, and Crino, C), Sept., 1128

Autosomal STR Loci (HUMTPOX, HUMTH01, HUMVWA, D18S535, D1S1656 and D12S391) in San Salvador (El Salvador, Central America) (Martinez-Jarreta, B, Vasquez, P, Abecia, E, Garde, M, Budowle, B, and de Blas, I), May, 633

Development of a simulation model to assess the impact of contamination in casework using STRs (Gill, P and Kirkham, A), May, 485

Distribution of D3S1358, vWA and D13S317 alleles in Chinese population (Ying, BW, Chen, JH, Wang, JP, Shi, MS, Deng, JQ, Li, YB, Wu, J, Zhang, J, Yan, J, Lin, W, and Hou, BS), Jan., 165

Distributions of allelic frequencies and haplotypes of two new STR loci in a Chinese Han population (Jia, ZJ, Wu, J, Hou, YP, Zhou, XP, Zhang, WJ, Deng, JQ, Zhang, J, Ying, BW, Shi, MS, and Yan, J), March, 409

Eastern Chinese population data on four STR forensic loci: CSF1P0, TH01, TPOX, vWA (Gao, YZ, Xia, SX, Wang, ZF, Zhang, ZX, and Bian, SZ), July, 838

Eight short tandem repeats (STR) frequencies for descendants from Terena indigenous Brazilian group (Silva, DA, Góes, AC, and Carvalho, EF), March, 398

Erroneous gender identification by the amelogenin sex test (Michael, A and Brauner, P), March, 258

Evaluation of five short tandem repeat loci among north Indian Muslim populations (Khan, F, Pandey, AK, Tripathi, M, Talwar, S, and Agrawal, S), July, 866

Genetic data of 8 Y-chromosome STRs in males from Santa Catarina, Brazil (Cainé, LM, Pontes, L, Abrantes, D, Lima, G, and Pinheiro, F), Sept., 1125

Genetic polymorphism for two STR loci D4S2639 and D4S1644 in a Chinese population (Wang, ZF, Gao, YZ, Xia, SX, and Zhang, ZX), Nov., 1386

Genetic profiles of five STR loci in eastern Chinese populations (Gao, YZ and Xia, SX), May, 631

Genetic variation of two new STR Loci D2S1399, D16S3391 in a Chinese population (Gao, YZ and Xia, SX), July, 839

Human Y-chromosomal short tandem repeat DXYS156 in an Indian population sample (Ghosh, A and Seshadri, M), May, 635

Minimal Y-chromosome haplotypes plus DYS287 in Jewish populations (Picornell, A, Jiménez, G, Castro, JA, and Ramon, MM), March, 410

Mutation in the STR locus D21S11 of father causing allele mismatch in the child (Thangaraj, K, Reddy, AG, and Singh, L), Jan., 99

Population data of two X-chromosome STR loci GATA186D06 and GATA198A10 in China (Deng, JQ, Shi, MS, Ying, BW, Jia, ZJ, Hou, YP, Suo, YP, Li, YB, Wu, J, Yan, J, Wang, XD, Dai, HL, and Zhu, QF), Jan., 173

Population genetics for three STR loci in the population from southern China (Ye, QS and Tang, JP), Nov., 1370

Population genetics of two STR loci D2S1396 and D6S474 in a Chinese population (Zhang, WJ, Wu, J, Jia, ZJ, Zhou, XP, Li, YB, Yan, J, Ying, BW, Zhang, J, and Hou, YP), March, 415

Specificity of sibship determination using the ABI identifier multiplex system (Reid, TM, Wolf, CA, Kraemer, CM, Lee, SC, Baird, ML, and Lee, RF), Nov., 1262

Utility of the Y-STR Typing Systems, Y-PLEX™ 6 and Y-PLEX™ 5 in forensic casework and 11 Y-STR haplotype database for three major population groups in the United States (Sinha, S, Budowle, B, Chakraborty, R, Paunovic, A, Guidry, RD, Larsen, C, Lal, A, Schaffer, M, Pineda, G, Sinha, SK, Schneida, E, Nasir, H, and Shewale, JG), July, 691

Y-chromosome STR system, Y-PLEX™ 12, for forensic casework: development and validation (Shewale, JG, Nasir, H, Schneida, E, Gross, AM, Budowle, B, and Sinha, SK), Nov., 1278

Y-STR haplotypes from eight South Indian groups based on five loci (Cordaux, R, Bentley, G, Aunger, R, Sirajuddin, SM, and Stoneking, M), July, 847

Short tandem repeats (STR)

Two X-chromosome STR loci DXS6803 and XS6793 frequency data in Chinese population (Jia, Y, Zhou, B, Liang, WB, Li, M, and Zhang, L), July, 845

Single nucleotide polymorphism

Accurate STR allele designations at the FGA and vWA loci despite primer site polymorphisms (Hendrickson, BC, Leclair, B,

Forrest, S, Ryan, J, Ward, BE, Petersen, C, Kupferschmid, TD, and Scholl, T), March, 250

Y-SNP Typing of U. S. African American and Caucasian samples using allele-specific hybridization and primer extension (Vallone, PM and Butler, JM), July, 723

Skeletal remains

Human remains sold to the highest bidder! A snapshot of the buying and selling of human skeletal remains on eBay®, an Internet auction site (Huxley, AK and Finnegan, M), Jan., 17

Skin reflectance

A calibrated gray scale for forensic ultraviolet photography (Dyer, AG, Muir, LL, and Muntz, WR), Sept., 1056

Smoothness

Fingerprints' third dimension: the depth and shape of fingerprints penetration into paper—cross section examination by fluorescence microscopy (Almog, J, Azoury, M, Elmaliyah, Y, Berenstein, L, and Zaban, A), Sept., 981

SNP typing

Y-SNP typing of U. S. African American and Caucasian samples using allele-specific hybridization and primer extension (Vallone, PM and Butler, JM), July, 723

SNP-based inference

Erratum/correction of Frudakis et al. A classifier for the SNP-based inference of ancestry. *J Forensic Sci* 2003 July;48(4):771–82 (Frudakis, T), Sept., 1145

Soft tissue trauma

Virtopsy: forensic traumatology of the subcutaneous fatty tissue; multislice computed tomography (MSCT) and magnetic resonance imaging (MRI) as diagnostic tools (Yen, K, Vock, P, Tiefenthaler, B, Ranner, G, Scheurer, E, Thali, MJ, Zwiygart, K, Sonnenschein, M, Wiltgen, M, and Dirnhofer, R), July, 799

Soil

Subsampling and preparing forensic samples for pollen analysis (Horrocks, M), Sept., 1024

Solvents

Effect of eight solvents on ethanol analysis by Dräger 7110 evidential breath analyzer (Laakso, O, Pennanen, T, Himberg, K, Kuitunen, T, and Himberg, JJ), Sept., 1113

Somatic mutation

A genetic basis for anomalous band patterns encountered during DNA STR profiling (Clayton, TM, Guest, JL, Urquhart, AJ, and Gill, PD), Nov., 1207

Specialist search dog

Attributes of specialist search dogs—a questionnaire survey of UK dog handlers and trainer (Rooney, NJ, Bradshaw, JW, and Almey, H), March, 300

Species identification

Use of solid-phase double-antibody radioimmunoassay to identify species from small skeletal fragments (Ubelaker, DH, Lowenstein, JM, and Hood, DG), Sept., 924

SPME

New developments in SPME Part 2: analysis of ammonium nitrate-based explosives (Brown, H, Kirkbride, KP, Pigou, PE, and Walker, GS), March, 215

Spores

Stable isotope ratios as a tool in microbial forensics—Part 1. Microbial isotopic composition as a function of growth medium (Kreuzer-Martine, HW, Chesson, LA, Lott, MJ, Dorigan, JV, and Ehleringer, JR), Sept., 954

Stability

Stability of drugs in stored postmortem femoral blood and vitreous humor (Holmgren, P, Druid, H, Holmgren, A, and Ahlner, J), July, 820

The reactivity of gamma-hydroxybutyric acid (GHB) and gamma-butyrolactone (GBL) in alcoholic solutions (Hennessy, SA, Moane, SM, and McDermott, SD), Nov., 1220

Stable isotopes

Stable isotope ratios as a tool in microbial forensics—Part 1. Microbial isotopic composition as a function of growth medium (Kreuzer-Martine, HW, Chesson, LA, Lott, MJ, Dorigan, JV, and Ehleringer, JR), Sept., 954

Stable isotope ratios as a tool in microbial forensics—Part 2. Isotopic variation among different growth media as a tool for sourcing origins of bacterial cells or spores (Kreuzer-Martine, HW, Chesson, LA, Lott, MJ, Dorigan, JV, and Ehleringer, JR), Sept., 961

Staging

The rarity of unusual dispositions of victim bodies: staging and posing (Keppel, RD and Weis, JG), Nov., 1308

Stalking

A research review of public figure threats, approaches, attacks, and assassinations in the United States (Meloy, JR, James, DV, Farnham, FR, Mullen, PE, Pathe, M, Darnley, B, and Preston, L), Sept., 1086

The impact of anti-stalking training on front line service providers: using the anti-stalking training evaluation protocol (A.S.T.E.P.) (Harmon, RB, O'Connor, M, Forcier, A, and Collins, M), Sept., 1050

Stillbirth

The significance of pulmonary interstitial emphysema in live birth determination (Lavezzi, WA, McKenna, BJ, and Wolf, BC), May, 546

Stored samples

Stability of drugs in stored postmortem femoral blood and vitreous humor

(Holmgren, P, Druid, H, Holmgren, A, and Ahlner, J), July, 820

STR

Concordance study between miniplex assays and a commercial STR typing kit (Drabek, J, Chung, DT, Butler, JM, and McCord, BR), July, 859

Developmental validation of a single-tube amplification of the 13 CODIS STR loci, D2S1338, D19S433 and amelogenin: the AmpFISTR identifier PCR amplification kit (Collins, PJ, Hennessy, LK, Leibel, CS, Roby, RK, Reeder, DJ, and Foxall, PA), Nov., 1265

Genetic diversity of sixteen STRs in the Peruvian Mesa Redonda Lima population (Tito, RY, López, PW, Iannacone, GC, and Lizárraga, B), July, 852

STR polymorphism between two tribal populations of India (Ghosh, A, Ramesh, A, Kumar, AR, and Seshadri, M), July, 856

STR allele

The application of an automated allele concordance analysis system (Compare CallsSM) to ensure the accuracy of single source STR DNA profiles (Ryan, JH, Barrus, JK, Budowle, B, Shannon, CM, Thompson, VW, and Ward, BE), May, 492

STR analysis

Validation study of the trueallele® automated data review system (Kadash, K, Kozłowski, BE, Biega, LA, and Duceman, BW), July, 660

STR loci

A genetic basis for anomalous band patterns encountered during DNA STR profiling (Clayton, TM, Guest, JL, Urquhart, AJ, and Gill, PD), Nov., 1207

Commentary on: Budowle, B, Shea, B, Niezgodna, S, et al. CODIS STR loci data from 41 sample populations. *J Forensic Sci* 2001;46:453-89 (Krane, DE, Doom, TE, Mueller, L, Raymer, ML, Shields, WM, and Thompson, WC), Nov., 1388

STR profile

The application of an automated allele concordance analysis system (Compare CallsSM) to ensure the accuracy of single source STR DNA profiles (Ryan, JH, Barrus, JK, Budowle, B, Shannon, CM, Thompson, VW, and Ward, BE), May, 492

STR typing

A possible source of reference DNA from archived adhesive lifters (Zamir, A, Oz, C, Wolf, E, Vinokurov, A, and Glatstein, B), Jan., 68

STR typing of human DNA from fly larvae fed on decomposing bodies (Zehner, R, Amendt, J, and Krettek, R), March, 337

Striations

Estimation of bullet striation similarity using neural networks (Banno, A), May, 500

STRs

Using STR analysis to detect human DNA from exploded pipe bomb devices (Esslinger, KJ, Siegel, JA, Spillane, H, and Stallworth, S), May, 481

Stutter

Systematic analysis of stutter percentages and allele peak height and peak area ratios at heterozygous STR loci for forensic casework and database samples (Leclair, B, Fregeau, CJ, Bowen, KL, and Fournay, RM), Sept., 968

Sub-adults

A proposed method for the identification of race in sub-adult skeletons: a geometric morphometric analysis of mandibular morphology (Buck, TJ and Vidarsdottir, US), Nov., 1158

Subarachnoid hemorrhage

Motor-vehicle collision-related death due to delayed-onset subarachnoid hemorrhage associated with anticoagulant therapy (Lopez, AE, Barnard, JJ, White, CL, Oeberst, JL, and Prahlow, JA), July, 807

Substance abuse

Relationships between the deinstitutionalization of healthcare for patients with mental disorder, substance abuse, and isolated death (Thiblin, I, Fugelstad, AB, Leifman, AG, Romelsjo, AP, Agren, GS, and Sorimachi, Y), March, 354

Sudden death

Sudden death caused by 1,1-difluoroethane inhalation (Xiong, Z, Avella, J, and Welti, CV), May, 627

Sudden infant death syndrome

Fifteen year retrospective study of infant organ weights and revision of standard weight tables (Thompson, WS and Cohle, SD), May, 575

Sudden natural death

Common mitochondrial DNA deletion associated with sudden natural death in adults (Polisecki, EY, Schreiber, LE, Ravioli, J, and Corach, D), Nov., 1335

Suicide

Female suicides in Diyarbakir, Turkey (Goren, S, Subasi, M, Tirasci, Y, and Ozen, S), July, 796

Suicide with a Butcher's Bolt (Viola, L, Costantinides, F, Di Nunno, C, Battista, GM, and Di Nunno, N), May, 595

Surveillance system

The safety helmet detection technology and its application to the surveillance system (Wen, CY), July, 770

Survey

A second survey of high explosives traces in public places (Cullum, HE, McGavigan, C, Uttley, CZ, Stroud, MA, and Warren, DC), July, 684

Suture

Postmortem analysis of anastomotic suture line disruption following carotid endarterectomy (Melinek, J, Lento, P, and Moalli, J), Sept., 1077

SWGDM

SWGDM developmental validation of a 19-locus Y-STR system for forensic casework (Daniels, DL, Hall, AM, and Ballantyne, J), July, 668

T

Taphonomic mycota

Commentary on: Carter, DO and Tibbett, M. Taphonomic mycota: fungi with forensic potential. *J Forensic Sci* 2003;48(1):168-71 (Bunyard, BA), Sept., 1134

TATP (triacetone triperoxide)

Trace analysis of peroxide explosives by high performance liquid chromatography-atmospheric pressure chemical ionization-tandem mass spectrometry (HPLC-APCI-MS/MS) for forensic applications (Xu, X, van de Craats, AM, Kok, EM, and de Bruyn, P), Nov., 1230

Terrorism

Review of: terrorism and organized hate crime: intelligence gathering, analysis, and investigations (Ward, RH), Sept., 1141

The mean exclusion chance

Allele frequency distribution of two X-chromosomal STR loci in Han population in China (Lv, M, Liang, W, Wu, MY, Zhou, B, Jia, Y, and Zhang, L), March, 418

Thermogravimetric analysis

Thermogravimetric analysis as a polymer identification technique in forensic applications (Ihms, EC and Brinkman, DW), May, 505

Thin layer chromatography

Differentiation of black gel inks using optical and chemical techniques (Wilson, JD, LaPorte, GM, and Cantu, AA), March, 364

Third molar

Radiographic survey of third molar development in relation to chronological age among Japanese juveniles (Arany, S, Iino, M, and Yoshioka, N), May, 534

Tissue depth

A new technique for three dimensional ultrasound scanning of facial tissues (Smith, SL and Throckmorton, GS), May, 451

Tissue thickness

A new technique for three dimensional ultrasound scanning of facial tissues (Smith, SL and Throckmorton, GS), May, 451

Tomography

Age calculation using X-ray microfoc computed tomographical scanning of

teeth: a pilot study (Vandevoort, FM, Bergmans, L, Cleynenbruegel, JV, Bielen, DJ, Lambrechts, P, Wevers, M, Peirs, A, and Willems, G), July, 787

Toxicity

Fatal bupivacaine intoxication following unusual erotic practices (Yazzie, J, Kelly, SC, Zumwalt, RE, and Kerrigan, S), March, 351

Toxicology

Distribution and optical purity of methamphetamine found in toxic concentration in a civil aviation accident pilot fatality (Chaturvedi, AK, Cardona, PS, Soper, JW, and Canfield, DV), July, 832

Methadone-related deaths in Palm Beach County (Wolf, BC, Lavezzi, WA, Sullivan, LM, and Flannagan, LM), March, 375

TP53

Characterization of TP53 microsatellite locus among selected ethnic populations of India (Ghosh, A and Seshadri, M), Jan., 174

TPO

Molecular genetic analysis of TPO and CD4 loci between two endogamous ethnic groups of Maharashtra in Western India (Das, B and Seshadri, M), July, 861

Trace analysis

Forensic identification of dyes extracted from textile fibers by liquid chromatography mass spectrometry (LC-MS) (Huang, M, Yinon, J, and Sigman, ME), March, 238

Trace evidence

An example of the use of forensic palynology in assessing an alibi (Mildenhall, DC), March, 312

Tramadol

Tramadol (Ultram®) concentrations in death investigation and impaired driving cases and their significance (Clarkson, JE, Lacy, JM, Fligner, CL, Thiersch, N, Howard, J, Harruff, RC, and Logan, BK), Sept., 1101

Triacetone triperoxide

Improved method for the detection of TATP after explosion (Muller, D, Levy, A, Shelef, R, Abramovich-Bar, S, Sonenfeld, D, and Tamiri, T), Sept., 935

Triallelic pattern

A genetic basis for anomalous band patterns encountered during DNA STR profiling (Clayton, TM, Guest, JL, Urquhart, AJ, and Gill, PD), Nov., 1207

U

Ultane

The distribution of sevoflurane in a sevoflurane induced death (Burrows, DL, Nicolaidis, A, Stephens, GC, and Ferslew, KE), March, 394

Ultraviolet photography

A calibrated gray scale for forensic ultraviolet photography (Dyer, AG, Muir, LL, and Muntz, WR), Sept., 1056

Urine adulteration

Analysis of nitrite in adulterated urine samples by capillary electrophoresis (Kinkennon, AE, Black, DL, Robert, TA, and Stout, PR), Sept., 1094

USS Iowa

The USS Iowa disaster: success of the forensic dental team (Brannon, RB and Morlang, WM), Sept., 1067

V

Vaginal cells

Lugol's test reexamined again: buccal cells (Jones Jr., EL and Leon, JA), Jan., 64

Validation

The effect of time after body discovery on the accuracy of retrospective weather station ambient temperature corrections in forensic entomology (Archer, MS), May, 553
SWGDAM developmental validation of a 19-locus Y-STR system for forensic casework (Daniels, DL, Hall, AM, and Ballantyne, J), July, 668

Vegetable oils

Erratum/Correction of Pitts SJ and Thomson CI. Analysis and classification of common vegetable oils. *J Forensic Sci* 2003 Nov;48(6):1293-1297. (Pitts, SJ and Thomson, CI), Sept., 1147

Vertebral osteophyte

Sex differences and aging of the vertebral column (Snodgrass, JJ), May, 458

Vertical deceleration injuries

The influence of behavior on freefall injury patterns: possible implications for forensic anthropological investigations (Christensen, AM), Jan., 5

Victimology

Homicide victim/offender relationship in Florida Medical Examiner District 8 (Drawdy, SM and Myers, WC), Jan., 150

Victims

Exploring the psychological and somatic impact of identity theft (Sharp, T, Shreve-Neiger, A, Fremouw, W, Kane, J, and Hutton, S), Jan., 131

Violence

A research review of public figure threats, approaches, attacks, and assassinations in the United States (Meloy, JR, James, DV, Farnham, FR, Mullen, PE, Pathe, M, Darnley, B, and Preston, L), Sept., 1086

Violence in prison

Assault in prison and assault in prison psychiatric treatment (Young, MH, Justice, JV, and Erdberg, P), Jan., 141

Virtopsy

Virtopsy—fatal motor vehicle accident with head injury (Aghayev, E, Thali, M, Jackowski, C, Sonnenschein, M, Yen, K, Vock, P, and Dirnhofer, R), July, 809
Visualization and quantification of air embolism structure by processing postmortem MSCT data (Jackowski, C, Thali, M, Sonnenschein, M, Aghayev, E, Yen, K, Dirnhofer, R, and Vock, P), Nov., 1339

Virtual autopsy

Virtopsy—fatal motor vehicle accident with head injury (Aghayev, E, Thali, M, Jackowski, C, Sonnenschein, M, Yen, K, Vock, P, and Dirnhofer, R), July, 809
Visualization and quantification of air embolism structure by processing postmortem MSCT data (Jackowski, C, Thali, M, Sonnenschein, M, Aghayev, E, Yen, K, Dirnhofer, R, and Vock, P), Nov., 1339

Vitreous humor

Measurement of chemical analytes in vitreous humor: stability and precision studies (Gagajewski, A, Murakami, MM, Kloss, J, Edstrom, M, Hillyer, M, Peterson, GF, Amatuzio, J, and Apple, FS), March, 371

Voice identification

Review of: forensic voice identification (Bohan, TL), July, 876

W

Walter C. McCrone

A selection of some of Dr. McCrone's high and low profile cases in forensic analysis of art (Stoney, DA), March, 280
Criminalistics section special session—a tribute to Walter McCrone (Stoney, DA and Gaensslen, RE), March, 263
Dr. McCrone's teaching methods in forensic microscopy, their nature, history, and durability (Laughlin, GT), March, 270
Dr. Walter C. McCrone—his contributions to environmental microscopy (Kubic, TA), March, 277
Dr. Walter C. McCrone's contribution to the characterization and identification of explosives (Hopen, TJ), March, 275
Dr. Walter C. McCrone's contributions to microscopy workshops and the certification of criminalists (Peterson, JL), March, 267
Published works of Walter C. McCrone (Weaver, RM), March, 283
Remembering Walter C. McCrone—scientist, mentor, leader and friend (Reffner, JA), March, 265

White collar crime

Exploring the psychological and somatic impact of identity theft (Sharp, T, Shreve-Neiger, A, Fremouw, W, Kane, J, and Hutton, S), Jan., 131

X**X-chromosome**

Allele frequency distribution of two X-chromosomal STR loci in Han population in China (Lv, M, Liang, W, Wu, MY, Zhou, B, Jia, Y, and Zhang, L), March, 418

Two X-chromosome STR Loci DXS6803 and XS6793 frequency data in Chinese population (Jia, Y, Zhou, B, Liang, WB, Li, M, and Zhang, L), July, 845

Y**Y chromosome**

Allele frequencies of Y-chromosome STR Loci DYS463 and DYS467 in a Chinese population (Wang, XD, Dai, HL, Hou, YP, Zhu, QF, Zhang, HJ, Li, YB, Wu, J, Zhang, J, and Deng, JQ), May, 632

Y-SNP typing of U. S. African American and Caucasian samples using allele-specific hybridization and primer extension (Vallone, PM and Butler, JM), July, 723

Y-chromosome

Genetic data of 8 Y-chromosome STRs in males from Santa Catarina, Brazil

(Cainé, LM, Pontes, L, Abrantes, D, Lima, G, and Pinheiro, F), Sept., 1125

Mutation in the STR locus D21S11 of father causing allele mismatch in the child (Thangaraj, K, Reddy, AG, and Singh, L), Jan., 99

Typing of XY (male) genotype from malignant neoplastic tissue by the amelogenin-based sex test (Vauhkonen, H, Hedman, M, Vauhkonen, M, Sipponen, P, and Sajantila, A), March, 222

Utility of the Y-STR typing systems, Y-PLEX™ 6 and Y-PLEX™ 5 in forensic casework and 11 Y-STR haplotype database for three major population groups in the United States (Sinha, S, Budowle, B, Chakraborty, R, Paunovic, A, Guidry, RD, Larsen, C, Lal, A, Schaffer, M, Pineda, G, Sinha, SK, Schneida, E, Nasir, H, and Shewale, JG), July, 691

Y-chromosomal STR loci data in Japanese using the Y-PLEX™ 5 and Y-PLEX™ 6 PCR amplification kits (Kido, A, Hara, M, Kameyama, H, Yamamoto, Y, Sudukida, R, and Oya, M), July, 849

Y-chromosome STR system, Y-PLEX™ 12, for forensic casework: development and validation (Shewale, JG, Nasir, H, Schneida, E, Gross, AM, Budowle, B, and Sinha, SK), Nov., 1278

Y-STR haplotypes from eight South Indian groups based on five loci (Cordaux, R, Bentley, G, Aunger, R, Sirajuddin, SM, and Stoneking, M), July, 847

Y-chromosome markers

A highly discriminating 21 locus Y-STR "Megaplex" system designed to augment the minimal haplotype loci for forensic casework (Hanson, EK and Ballantyne, J), Jan., 40

Y-STR

Y-chromosome STR system, Y-PLEX™ 12, for forensic casework: development and validation (Shewale, JG, Nasir, H, Schneida, E, Gross, AM, Budowle, B, and Sinha, SK), Nov., 1278

Y-STR megaplex

A highly discriminating 21 locus Y-STR "Megaplex" system designed to augment the minimal haplotype loci for forensic casework (Hanson, EK and Ballantyne, J), Jan., 40

Y-STR multiplex

A highly discriminating 21 locus Y-STR "Megaplex" system designed to augment the minimal haplotype loci for forensic casework (Hanson, EK and Ballantyne, J), Jan., 40