# Journal of Forensic Sciences Subject Index to Volume 45 2000

## A

## **Abortion material**

Paternity-testing on paraffin-embedded abortion tissue: preparation of fetal cells may be indispensable (Zehner, R and Lasczkowski, G), Nov., 1332

# Absorption during cardiopulmonary resuscitation

Determining the state of the deceased during cardiopulmonary resuscitation from tissue distribution patterns of intubation-related lidocaine (Moriya, F and Hashimoto, Y), July, 846

### Absorption status

Status of alcohol absorption in drinking drivers killed in traffic accidents (Levine, B and Smialek, J), Jan., 3

#### ABTS

ABTS: a safe alternative to DAB for the enhancement of blood fingerprints (Caldwell, JP, Henderson, W, and Kim, ND), July, 785

#### Accident

A review of crane deaths in Jefferson County, Alabama (Davis, GG and Brissie, RM), March, 392

# Accidents

When is 100% inspection not enough? An analysis of three pickup truck front wheel assembly failures (Van Kirk, DJ, Sas, JP, and Cross, PN), Jan., 175

## Acetylation

Determination of amphetamine by HPLC after acetylation (Veress, T), Jan., 161

## Achiral and chiral analyses

Achiral and chiral quantification of methamphetamine and amphetamine in human urine by semi-micro column high-performance liquid chromatography and fluorescence detection (Al-Dirbashi, OY, Wada, M, Kuroda, N, Takahashi, M, and Nakashima, K), May, 708

#### Adhesive

Analysis of pressure sensitive adhesive tape: I. Evaluation of infrared ATR accessory advances (Merrill, RA and Bartick, EG), Jan., 93

## Adhesive lifter

Improved method for shooting distance determination. Part 2—bullet holes in objects

that canot be processed in the laboratory (Glattstein, B, Zeichner, A, Vinokurov, A, and Shoshani, E), Sept., 1000

Improved method for shooting distance estimation. Part 1. Bullet holes in clothing items (Glattstein, B, Vinokurov, A, Levin, N, and Zeichner, A), July, 801

## Adhesive tapes

Paint and tape: collection and storage of microtraces of paint in adhesive tape (Bernhard, WR), Nov., 1312

#### Adolescence

Anger experience, styles of anger expression, sadistic personality disorder, and psychopathy in juvenile sexual homicide offenders (Myers, WC and Monaco, L), May, 698

### **African American**

Analysis of genotype frequencies and interlocus association for the PM, DQA1, and D1S80 loci in four populations (Klitz, W, Reynolds, R, Chen, J, and Erlich, HA), Sept., 1009

## Age

Aging and homicide rates (Paanila, J, Eronen, M, Hakola, P, and Tiihonen, J), March, 390

Gelatinase A in human dentin as a new biochemical marker for age estimation (Martín-de las Heras, S, Valenzuela, A, and Overall, CM), July, 807

# Age estimation

Age estimation by occlusal tooth wear (Kim, YK, Kho, HS, and Lee, KH), March, 303

The rhomboid fossa of the clavicle as a sex and age estimator (Rogers, NL, Flournoy, LE, and McCormick, WF), Jan., 61

#### Aircraft

Fatal fall of an aircraft stowaway: a demonstration of the importance of death scene investigation (Thogmartin, JR), Jan., 211

## Alcohol

Status of alcohol absorption in drinking drivers killed in traffic accidents (Levine, B and Smialek, J), Jan., 3

# Alcoholic ketoacidosis

Beta-hydroxybutyric acid—an indicator for an alcoholic ketoacidosis as cause of death in deceased alcohol abusers (Iten, PX and Meier, M), May, 624

## Algal colonization

Algal colonization of submerged carcasses in a mid-order woodland stream (Casamatta, DA and Verb, RG), Nov., 1280

## Alkaline lysis

Evaluation of an alkaline lysis method for the extraction of DNA from whole blood and forensic stains for STR analysis (Klintschar, M and Neuhuber, F), May, 669

# Allele frequencies

Allelic distribution of four tetranucleotide repeat loci (D3S1358, D18S51, D19S253, and FGA) in a population from Porto (North Portugal) (Pinheiro, F, Pontes, L, da Costa, JP, Huguet, E, Moreno, P, and Gené, M), July, 891

#### Alternative specimens

Analysis of morphine by RIA and HPLC in fingernail clippings obtained from heroin users (Lemos, NP, Anderson, RA, Valentini, R, Tagliaro, F, and Scott, RT), March, 407

# Amelogenin

A rare mutation in the amelogenin gene and its potential investigative ramifications (Roffey, PE, Eckhoff, CI, and Kuhl, JL), Sept., 1016

# 7-Aminoflunitrazepam

Elimination of 7-aminoflunitrazepam and flunitrazepam in urine after a single dose of rohypnol® (Negrusz, A, Moore, CM, Stockham, TL, Poiser, KR, Kern, JL, Palaparthy, R, Le, NLT, Janicak, PG, and Levy, NA), Sept., 1031

#### Amok

A cross-cultural review of sudden mass assault by a single individual in the oriental and occidental cultures (Hempel, AG, Levine, RE, Meloy, JR, and Westermeyer, J), May, 582

# AmpFISTR profiler plus

A rare mutation in the amelogenin gene and its potential investigative ramifications (Roffey, PE, Eckhoff, CI, and Kuhl, JL), Sept., 1016

STR data for the AMPF•STR Profiler Plus loci among four predominant populations of Eastern India (Dutta, R, Chattopadhyay, P, and Kashyap, VK), Nov., 1353

#### **Amphetamine**

Determination of amphetamine by HPLC after acetylation (Veress, T), Jan., 161

## Anabolic androgenic steroids

Cause and manner of death among users of anabolic androgenic steroids (Thiblin, I, Lindquist, O, and Rajs, J), Jan., 16

# Anger

Anger experience, styles of anger expression, sadistic personality disorder, and psychopathy in juvenile sexual homicide offenders (Myers, WC and Monaco, L), May, 608

## Anthropology

Obtaining fingerprints from mummified fingers: a method for tissue rehydration adapted from the archeological literature (Schmidt, CW, Nawrocki, SP, Williamson, MA, and Marlin, DC), July, 874

## Antidepressants

Among fatal poisonings dextyropropoxyphene predominates in younger people, antidepressants in the middle aged and sedatives in the elderly (Jonasson, BJ, Jonasson, U, and Saldeen, T), Jan., 7

## Antipsychotic drugs

Olanzapine concentrations in clinical serum and postmortem blood specimens—when does therapeutic become toxic (Robertson, MD and McMullin, MM), March, 418

## Archaeology

Strontium isotope composition of skeletal material can determine the birth place and geographic mobility of humans and animals (Beard, BL and Johnson, CM), Sept., 1049

## **Asphyxia**

A triad of laryngeal hemorrhages in strangulation: a report of eight cases (Pollanen, MS), May, 614

Asphyxial deaths and petechiae: a review (Ely, SF and Hirsch, CS), Nov., 1274 Suffocation using plastic bags: a retrospective study of suicides in Ontario, Canada (Bullock, MJ and Diniz, D), May, 608

## **Aspiration**

Fatal aspiration of sardine fry in a patient with lung cancer (Inayama, Y, Udaka, N, Amano, T, Watanuki, Y, Odagiri, S, Kawano, N, and Nakatani, Y), March, 478

## Aspiration pneumonia

Fatal aspiration of sardine fry in a patient with lung cancer (Inayama, Y, Udaka, N, Amano, T, Watanuki, Y, Odagiri, S, Kawano, N, and Nakatani, Y), March, 478

# Attenuated total reflection

A new infrared spectral library of controlled and noncontrolled drug standards using internal reflection spectroscopy (Koulis, CV, Hymes, KJ, and Rawlins, JL), July, 876

#### Automobile accident

Neck injuries caused by being run over by a motor vehicle (Maxeiner, H, Ehrlich, E, and Schyma, C), Jan., 31

## Automotive paint

Paint and tape: collection and storage of microtraces of paint in adhesive tape (Bernhard, WR), Nov., 1312

## В

# β-adrenergic drug

Doping control for β-adrenergic compounds through hair analysis (Kintz, P, Dumestree-Toulet, V, Jamey, C, Cirimele, V, and Ludes, B), Jan., 170

#### **Ballistics**

Analysis of primer residue from lead free ammunition by X-ray microfluorescence (Charpentier, B and Desrochers, C), March, 447

## **Barbiturates**

<sup>13</sup>C<sub>4</sub>-secobarbital as the internal standard for the quantitative determination of secobarbital—a critical evaluation (Chang, W-T, Lin, DL, Low, IA, and Liu, RH), May, 659

## **Barefoot impressions**

Increasing the identification potential from human foot remains (Rich, J), March, 505

## Benzo[f]ninhydrin

Reagents for the chemical development of latent fingerprints: scope and limitations of benzo[f]ninhydrin in comparison to ninhydrin (Almog, J, Sears, VC, Springer, E, Hewlett, DF, Walker, S, Wiesner, S, Lidor, R, and Bahar, E), May, 538

#### Benzovlecgonine

Regional distribution of cocaine in postmortem brain of chronic human cocaine users (Kalasinsky, KS, Bosy, TZ, Schmunk, GA, Ang, L, Adams, VI, Gore, SB, Smialek, J, Furukawa, Y, Guttman, M, and Kish, SJ), Sept., 1041

# Beta-hydroxybutyrate acid

Beta-hydroxybutyric acid—an indicator for an alcoholic ketoacidosis as cause of death in deceased alcohol abusers (Iten, PX and Meier, M), May, 624

## Beta-hydroxybutyric acid

Beta-hydroxybutyric acid—an indicator for an alcoholic ketoacidosis as cause of death in deceased alcohol abusers (Iten, PX and Meier, M), May, 624

## Bitemarks

Anatomical location of bitemarks and associated findings in 101 cases from the United States (Pretty, IA and Sweet, D), July, 812

#### Blood

ABTS: a safe alternative to DAB for the enhancement of blood fingerprints (Caldwell, JP, Henderson, W, and Kim, ND), July, 785

#### **Blood** crusts

Parentage testing on blood crusts from firearms projectiles by DNA typing settles an insurance fraud case (Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Cardoso, LA, and Muñoz, DR), Sept., 1142

## **Blood** enhancement chemicals

Fingerprint enhancement revisited and the effects of blood enhancement chemicals on subsequent Profiler Plus<sup>TM</sup> fluorescent short tandem repeat DNA analysis of fresh and aged bloody fingerprints (Frégeau, CJ, Germain, O, and Fourney, RM), March, 354

#### **Blood identification**

The presumptive reagent fluorescein for detection of dilute bloodstains and subsequent STR typing of recovered DNA (Budowle, B, Leggitt, JL, Defenbaugh, DA, Keys, KM, and Malkiewicz, SF), Sept., 1090

## **Bloodstains**

The accelerated polyvinyl-alcohol method for GSR collection—PVAL 2.0 (Schyma, C and Placidi, P), Nov., 1303

## Blow flies

Partial sequencing of the cytochrome oxydase b subunit gene I: a tool for the identification of European species of blow flies for postmortem interval estimation (Vincent, S, Vian, JM, and Carlotti, MP), July, 820

## Blow fly

Chrysomya rufifacies (Macquart) (Diptera: Calliphoridae) established in the vicinity of Knoxville, Tennessee, USA (Shahid, SA, Hall, RD, Haskell, NH, and Merritt, RW), July, 896

#### Bone

DNA typing of samples for polymarker, DQA1, and nine STR loci from a human body exhumed after 27 years (Tahir, MA, Balraj, E, Luke, L, Gilbert, T, Hamby, JE, and Amjad, M), July, 902

## Bone trauma

Keyhole defect production in tubular bone (Berryman, HE and Gunther, WM), March, 483

## **Bullet lead analysis**

Author's response (Keto, RO), March, 508

#### Bullets

Author's response (Keto, RO), March, 508

## Buprenorphine

Fatal intoxication following self-administration of a massive dose of buprenorphine (Gaulier, JM, Marquet, P, Lacassie, E, Dupuy, JL, and Lachatre, G), Jan., 226

 $\mathbf{C}$ 

## Cadmium sulfide

Diimide-enhanced fingerprint detection with photoluminescent CdS/dendrimer nanocomposites (Bouldin, KK, Menzel, ER, Takatsu, M, and Murdock, RH), Nov., 1239 Photoluminescent CdS/Dendrimer nanocomposites for fingerprint detection (Menzel, ER, Takatsu, M, Murdock, RH, Bouldin, K, and Cheng, KH), July, 770

## Calliphoridae

Minimum and maximum development rates of some forensically important Callphoridae (Diptera) (Anderson, GS), July, 824

Partial sequencing of the cytochrome oxydase b subunit gene I: a tool for the identification of European species of blow flies for postmortem interval estimation (Vincent, S, Vian, JM, and Carlotti, MP), July, 820

## Canada

Allele frequencies for the COFILER<sup>TM</sup> STR loci in the Canadian and Canadian First nations populations. (Borys, S, Vanstone, H, Carmody, G, and Fourney, R), July, 945

Allele frequencies for the COFILER™ STR loci in the Canadian caucasian and Canadian First nations populations (Borys, S, Vanstone, H, Carmody, G, and Fourney, R), July, 947

## **Canadian First**

Allele frequencies for the COFILER™ STR loci in the Canadian and Canadian First nations populations. (Borys, S, Vanstone, H, Carmody, G, and Fourney, R), July, 945

Allele frequencies for the COFILER<sup>TM</sup> STR loci in the Canadian caucasian and Canadian First nations populations (Borys, S, Vanstone, H, Carmody, G, and Fourney, R), July, 947

#### Canis familiaris

A novel method for forensic DNA investigations: repeat-type sequence analysis of tandemly repeated mtDNA in domestic dogs (Savolainen, P, Arvestad, L, and Lundeberg, J), Sept., 990

## Capillary electrophoresis

Comparing the additive composition of smokeless gunpowder and its handgunfired residues (Reardon, MR, MacCrehan, WA, and Rowe, WF), Nov., 1232

Detection and correction of a migration anomaly on a 310 genetic analyzer (Shewale, JG, Richey, SL, and Sinha, SK), Nov., 1339

## Cardiac tamponade

Unexpected sudden death from coronary sinus thrombosis. An unusual complication of central venous catheterization (Suárez-Peñaranda, JM, Rico-Boquete, R, Muñoz, JI, Rodríguez-Nuñez, A, Martínez Soto,

MI, Rodríguez-Calvo, M, and Concheiro-Carro, L), July, 920

## Cardiopulmonary resuscitation

Determining the state of the deceased during cardiopulmonary resuscitation from tissue distribution patterns of intubation-related lidocaine (Moriya, F and Hashimoto, Y), July, 846

# Cardiotonic glycosides

A non-fatal case of intoxication with foxglove, documented by means of liquid chromatography-electrospray-mass spectrometry (Lacassie, E, Marquet, P, Martin-Dupont, S, Gaulier, JM, and Lachâtre, G), Sept., 1154

#### Carisoprodol

Carisoprodol, meprobamate, and driving impairment (Logan, BK, Case, GA, and Gordon, AM), May, 619

#### Cars

When is 100% inspection not enough? An analysis of three pickup truck front wheel assembly failures (Van Kirk, DJ, Sas, JP, and Cross, PN), Jan., 175

#### Case

DNA typing of samples for polymarker, DQA1, and nine STR loci from a human body exhumed after 27 years (Tahir, MA, Balraj, E, Luke, L, Gilbert, T, Hamby, JE, and Amjad, M), July, 902

## Caucasian

Allele frequencies for the COFILER™ STR loci in the Canadian and Canadian First nations populations. (Borys, S, Vanstone, H, Carmody, G, and Fourney, R), July, 945

Allele frequencies for the COFILER™ STR loci in the Canadian caucasian and Canadian First nations populations (Borys, S, Vanstone, H, Carmody, G, and Fourney, R), July, 947

## Cause of death

Cause and manner of death among users of anabolic androgenic steroids (Thiblin, I, Lindquist, O, and Rajs, J), Jan., 16

## Centerfire rifle

Radiography of perforating centerfire rifle wounds of the trunk (Straathof, D, Bannach, BG, Wilson, AJ, and Dowling, GP), May, 597

## Central venous access devices

Unexpected sudden death from coronary sinus thrombosis. An unusual complication of central venous catheterization (Suárez-Peñaranda, JM, Rico-Boquete, R, Muñoz, JI, Rodríguez-Nuñez, A, Martínez Soto, MI, Rodríguez-Calvo, M, and Concheiro-Carro, L), July, 920

## Cerebellar hemorrhage

Acute cerebellar hemorrhage in a patient with Klinefelter syndrome: XXY karyotype obtained postmortem from cells from peri-

cardial fluid (Kominato, Y, Fujikura, T, Matsui, K, Hata, N, and Takizawa, H), Sept., 1148

## Certification program

Commentary on the American Board of Criminalistics (ABC) Certification Process (Adamo, R, Chany, C, Drummond, F, Hung, SM, Pool, T, Quarino, L, Ristenbatt, III, RR, and Pietro, DS), May, 749

#### Chain saws

The Chain Saw: an uncommon means of committing suicide (Campman, SC, Springer, FA, and Henrikson, DM), March, 471

#### Chemical ionization

Author's response (Crouch, DJ and Wu, AHB), Jan., 238

# **Chest compression**

Petechiae of the baby's skin as differentiation symptom of infanticide versus SIDS (Oehmichen, M, Gerling, I, and Meiβner, C), May, 602

## Child abuse

Homicidal commotio cordis in two children (Denton, JS and Kalelkar, MB), May, 734

## Child sexual abuse

Medical examination of sexually abused children: medico-legal value (Lauritsen, AK, Meldgaard, K, and Charles, AV), Jan., 115

On the assessment of children in suspected child sexual abuse in light of Daubert and Frye: limitations of profiles and interviews as scientifically grounded evidence (Bigelow, BJ), May, 573

### Chile

Gene frequencies for four hypervariable DNA loci in a Chilean population of mixed ancestry (Acuña, M, Jorquera, H, Armanet, L, and Cifuentes, L), Sept., 1160

## Chinese seals

A study on the use of photopolymer reflex plate in the forgery of Chinese seals (Cheng, KC, Cheng, N, and Wei, YC), Sept., 1062

## Chlorate

A fatal case of chlorate poisoning: confirmation by ion chromatography of body fluids (Eysseric, H, Vincent, F, Peoc'h, M, Marka, C, Aitken, Y, and Barret, L), March, 474

## 2-Chloro-4,5methylenedioxymethylamphetamine

The identification of 2-chloro-4,5-methylenedioxymethylamphetamine in an illicit drug seizure (Lewis, RJ, Reed, D, Service, AG, and Langford, AM), Sept., 1119

## Chloroethane

Death due to inhalation of ethyl chloride (Broussard, LA, Broussard, AK, Pittman, TS, and Lirette, DK), Jan., 223

#### Chronic alcoholics

Beta-hydroxybutyric acid—an indicator for an alcoholic ketoacidosis as cause of death in deceased alcohol abusers (Iten, PX and Meier, M), May, 624

## Chrysomya rufifacies

Chrysomya rufifacies (Macquart) (Diptera: Calliphoridae) established in the vicinity of Knoxville, Tennessee, USA (Shahid, SA, Hall, RD, Haskell, NH, and Merritt, RW), July, 896

## CI-MS

Authors' response (Crouch, DJ and Wu, AHB), Nov., 1360

## Cocaethylene

Regional distribution of cocaine in postmortem brain of chronic human cocaine users (Kalasinsky, KS, Bosy, TZ, Schmunk, GA, Ang, L, Adams, VI, Gore, SB, Smialek, J, Furukawa, Y, Guttman, M, and Kish, SJ), Sept., 1041

#### Cocaine

Regional distribution of cocaine in postmortem brain of chronic human cocaine users (Kalasinsky, KS, Bosy, TZ, Schmunk, GA, Ang, L, Adams, VI, Gore, SB, Smialek, J, Furukawa, Y, Guttman, M, and Kish, SJ), Sept., 1041

## Cocaine hydrochloride

The effects of microwave irradiation on occluded solvents in illicitly produced cocaine hydrochloride (Morello, DR, Casale, JF, Stevenson, ML, and Klein, RFX), Sept., 1126

## **CODIS** core loci

Allele frquencies for the CODIS core STR loci in Connecticut populations (Scherczinger, CA, Hintz, JL, Peck, BJ, Adamowicz, MS, Bourke, MT, Coyle, HM, Ladd, C, Yang, NCS, Budowle, B, and Lee, HC), July, 938

## Colposcope

Medical examination of sexually abused children: medico-legal value (Lauritsen, AK, Meldgaard, K, and Charles, AV), Jan., 115

## Common law

On the assessment of children in suspected child sexual abuse in light of Daubert and Frye: limitations of profiles and interviews as scientifically grounded evidence (Bigelow, BJ), May, 573

# Commotio cordis

Homicidal commotio cordis in two children (Denton, JS and Kalelkar, MB), May, 734

## Compositional analysis

Comparing the additive composition of smokeless gunpowder and its handgunfired residues (Reardon, MR, MacCrehan, WA, and Rowe, WF), Nov., 1232

## Computational

Chemical development of latent fingerprints: computational design of ninhydrin analogues (Elber, R, Frank, A, and Almog, J), July, 757

## Confocal macroscopy

A scanning beam time-resolved imaging system for fingerprint detection (Roorda, RD, Ribes, AC, Damaskinos, S, Dixon, AE, and Menzel, ER), May, 563

## Confocal microscopy

A scanning beam time-resolved imaging system for fingerprint detection (Roorda, RD, Ribes, AC, Damaskinos, S, Dixon, AE, and Menzel, ER), May, 563

#### Connecticut

Allele frquencies for the CODIS core STR loci in Connecticut populations (Scherczinger, CA, Hintz, JL, Peck, BJ, Adamowicz, MS, Bourke, MT, Coyle, HM, Ladd, C, Yang, NCS, Budowle, B, and Lee, HC), July, 938

#### Contamination

An evaluation of the relevance of routine DNA typing of fingernail clippings for forensic casework (Oz, C and Zamir, A), Jan., 158

# Coronary sinus thrombosis

Unexpected sudden death from coronary sinus thrombosis. An unusual complication of central venous catheterization (Suárez-Peñaranda, JM, Rico-Boquete, R, Muñoz, JI, Rodríguez-Nuñez, A, Martínez Soto, MI, Rodríguez-Calvo, M, and Concheiro-Carro, L), July, 920

## Costoclavicular ligament

The rhomboid fossa of the clavicle as a sex and age estimator (Rogers, NL, Flournoy, LE, and McCormick, WF), Jan., 61

## Cotard's syndrome

A case of Cotard's syndrome associated with self-starvation (Silva, JA, Leong, GB, Weinstock, R, and Gonzales, CL), Jan., 188

# Cotter pins

When is 100% inspection not enough? An analysis of three pickup truck front wheel assembly failures (Van Kirk, DJ, Sas, JP, and Cross, PN), Jan., 175

#### Crane

A review of crane deaths in Jefferson County, Alabama (Davis, GG and Brissie, RM), March, 392

# Cranial analysis

The postmortem fate of Pat Gregory: a disinterred Native American (Murad, TA and Murad, TD), March, 488

## Criminal characteristics

Characteristics of mentally retarded criminal offenders in Northern Taiwan (Su, KP, Yu, JM, Yang, TW, Tsai, SY, and Chen, CC), Nov., 1207

#### Criminalistics

A density gradient technique for use in forensic soil analysis (Petraco, N and Kubic, T), July, 872

A sandwich enzyme-linked immunosorbent assay for ABO blood typing of semen by using anti-p 84 monoclonal antibody as a marker of blood group substance in semen (Sato, I, Nakamura, A, Ujiie, K, Yukawa, N, and Nakajima, Y), July, 795

Application of true color X-ray vision for electron microscopy in fired bullets and gunshot residue investigation (Torre, C and Mattutino, G), July, 865

Clothing damage analysis and the phenomenon of the false sexual assault (Taupin, JM), May, 568

Comparing the additive composition of smokeless gunpowder and its handgunfired residues (Reardon, MR, MacCrehan, WA, and Rowe, WF), Nov., 1232

Improved method for shooting distance determination. Part 2—bullet holes in objects that canot be processed in the laboratory (Glattstein, B, Zeichner, A, Vinokurov, A, and Shoshani, E), Sept., 1000

Improved method for shooting distance estimation. Part III. Bullet holes in cadavers (Glattstein, B, Zeichner, A, Vinokurov, A, Levin, N, Kugel, C, and Hiss, J), Nov., 1243 Optimization of solid-phase microextraction (SPME) for the recovery of explosives from aqueous and post-explosion debris followed by gas and liquid chromatographic analysis (Furton, KG, Wu, L, and Almirall, JR), July, 857

Paint and tape: collection and storage of microtraces of paint in adhesive tape (Bernhard, WR), Nov., 1312

The accelerated polyvinyl-alcohol method for GSR collection—PVAL 2.0 (Schyma, C and Placidi, P), Nov., 1303

The petroleum-laced background (Lentini, JJ, Dolan, JA, and Cherry, C), Sept., 968

## Criminalistics

ABC response (Selavka, CM), May, 750 Commentary on the American Board of Criminalistics (ABC) Certification Process (Adamo, R, Chany, C, Drummond, F, Hung, SM, Pool, T, Quarino, L, Ristenbatt, III, RR, and Pietro, DS), May, 749

#### CSF1PO

Allele frequency distributions for twelve STR loci in a Brazilian population (Barros de Castro, IA, Rinzler, CMC, and Rumjanek, FD), July, 941

Commentary on Amar A, Brautbar C, Motro U, et al. Genetic variation of three tetrameric tandem repeats in four distinct Israeli ethnic groups. J Forensic Sci 1999;44(5):983–6 (Promish, DI), May, 747

Distribution of HLA-DQA1, polymarker, CSF1PO, vWA, TH01, TPOX, D16S539, D7S820, D13S317, and D5S818 alleles in East Bengali and West Punjabi populations

from Indo-Pak Subcontinent (Tahir, MA, Herrera, RJ, Khan, AA, Kashyap, VK, Duncan, G, Barna, C, Budowle, B, Rowold, DJ, Amjad, M, and Sinha, S), Nov., 1320

Validation of the PowerPlex 1.1<sup>TM</sup> loci for use in human identification (Greenspoon, SA, Lytle, PJ, Turek, SA, Rolands, JM, Scarpetta, MA, and Carr, CD), May, 677

## Cyberhate

Hate crimes on the Internet (Deirmenjian, JM), Sept., 1020

### Cyberspace

Hate crimes on the Internet (Deirmenjian, JM), Sept., 1020

D

## D10S2325

Allelic distribution for two short tandem repeat loci: D10S2325 and D20S161 (Baasner, A and Madea, B), Nov., 1349

#### D12S391

Population genetics of the D1S1656, D12S391, and D18S535 loci in Asturias (North Spain) (Martinez-Jarreta, B, Marco, PN, Martínez, EA, Lareu Huidobro, MV, and Budowle, B), March, 442

#### D13S317

Validation of the PowerPlex 1.1<sup>TM</sup> loci for use in human identification (Greenspoon, SA, Lytle, PJ, Turek, SA, Rolands, JM, Scarpetta, MA, and Carr, CD), May, 677

## D16S539

Validation of the PowerPlex 1.1<sup>TM</sup> loci for use in human identification (Greenspoon, SA, Lytle, PJ, Turek, SA, Rolands, JM, Scarpetta, MA, and Carr, CD), May, 677

# D19S253

Sequence variation of new alleles at the short tandem repeat D19S253 locus (Brito, RM, Ribeiro, T, Viriato, L, Vieira-Silva, C, Espinheira, R, Pinto-Ribeiro, I, and Geada, H), July, 932

## D1S1656

Population genetics of the D1S1656, D12S391, and D18S535 loci in Asturias (North Spain) (Martinez-Jarreta, B, Marco, PN, Martínez, EA, Lareu Huidobro, MV, and Budowle, B), March, 442

#### D1S339

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

#### **D1S7**

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

RFLP band size standards: NIST standard reference material® 2390 (Duewer, DL, Richie, KL, and Reeder, DJ), Sept., 1093

#### D1S80

Allelic frequencies for the HLA-DQA1, D1S80, HUMTHO1, HUMTPOX, HUM-CSF1PO and HUMVWA loci in Cantabria (middle north Spain) (Sánchez-Molina, I and Calvet, R), Jan., 167

Analysis of genotype frequencies and interlocus association for the PM, DQA1, and D1S80 loci in four populations (Klitz, W, Reynolds, R, Chen, J, and Erlich, HA), Sept., 1009

Parentage testing on blood crusts from firearms projectiles by DNA typing settles an insurance fraud case (Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Cardoso, LA, and Muñoz, DR), Sept., 1142

The distribution of D1S80 and vWA alleles in a Karen population from Northern Thailand (Steger, HF, Bhoopat, T, Sridoungkaew, S, and Sanguansermsri, T), March, 440

The Slovenian population data on the PCR based loci HLA-DQA1, LDLR, GYPA, HBGG, D7S8, GC, and D1S80 (Drobnic, K, Regent, A, and Budowle, B), May, 689

#### D20S161

Allelic distribution for two short tandem repeat loci: D10S2325 and D20S161 (Baasner, A and Madea, B), Nov., 1349

#### D25441

Allele frequency distributions for three STR loci in the Han and Thai populations (Huang, DX, Zhang, L, and Wu, MY), Nov., 1352

## D2S44

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

RFLP band size standards: NIST standard reference material® 2390 (Duewer, DL, Richie, KL, and Reeder, DJ), Sept., 1093

## D2S92

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

## D3S1358

Population genetics of nine STR loci in two populations from Brazil (Corte-Real, F, Andrade, L, Anjos, MJ, Carvalho, M, Vieira, DN, Carracedo, A, and Vide, MC), March, 432

The analysis of three short tandem repeat (STR) loci in the Slovene population by multiplex PCR (Drobnic, K and Budowle, B), July, 893

## D4S136

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency stud-

ies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

## D4S139

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

RFLP band size standards: NIST standard reference material<sup>®</sup> 2390 (Duewer, DL, Richie, KL, and Reeder, DJ), Sept., 1093

#### D5S110

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

RFLP band size standards: NIST standard reference material<sup>®</sup> 2390 (Duewer, DL, Richie, KL, and Reeder, DJ), Sept., 1093

#### D5S43

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

### D5S818

Validation of the PowerPlex 1.1<sup>™</sup> loci for use in human identification (Greenspoon, SA, Lytle, PJ, Turek, SA, Rolands, JM, Scarpetta, MA, and Carr, CD), May, 677

#### D6S132

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

# D752201

Allele frequency distributions for three STR loci in the Han and Thai populations (Huang, DX, Zhang, L, and Wu, MY), Nov., 1352

## D752846

Allele frequency distributions for three STR loci in the Han and Thai populations (Huang, DX, Zhang, L, and Wu, MY), Nov., 1352

#### D7S21

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

## D7S22

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

#### D7S467

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

RFLP band size standards: NIST standard reference material® 2390 (Duewer, DL, Richie, KL, and Reeder, DJ), Sept., 1093

#### **D7S8**

Analysis of genotype frequencies and interlocus association for the PM, DQA1, and D1S80 loci in four populations (Klitz, W, Reynolds, R, Chen, J, and Erlich, HA), Sept., 1009

Distribution of HLA-DQA1, polymarker, CSF1PO, vWA, TH01, TPOX, D16S539, D7S820, D13S317, and D5S818 alleles in East Bengali and West Punjabi populations from Indo-Pak Subcontinent (Tahir, MA, Herrera, RJ, Khan, AA, Kashyap, VK, Duncan, G, Barna, C, Budowle, B, Rowold, DJ, Amjad, M, and Sinha, S), Nov., 1320 HLA-DQA1 and polymarker locus allele frequencies for Elazig/Turkey (Dulger, HE and Tokdemir, M), July, 942

Usefulness of a toothbrush as a source of evidential DNA for typing (Tanaka, M, Yoshimoto, T, Nozawa, H, Ohtaki, H, Kato, Y, Sato, K, Yamamoto, T, Tamaki, K, and Katsumata, Y), May, 674

## D7S820

Validation of the PowerPlex 1.1<sup>TM</sup> loci for use in human identification (Greenspoon, SA, Lytle, PJ, Turek, SA, Rolands, JM, Scarpetta, MA, and Carr, CD), May, 677

#### Damage

Clothing damage analysis and the phenomenon of the false sexual assault (Taupin, JM), May, 568

# **Dangerousness**

Assessing the risk of recidivism in physicians with histories of sexual misconduct (Tillinghast, E and Cournos, F), Nov., 1184

## Data analysis

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

RFLP band size standards: NIST standard reference material® 2390 (Duewer, DL, Richie, KL, and Reeder, DJ), Sept., 1093

#### Date

Determining the time and day of photography (Levi, JA, Novoselsky, Y, Levin, N, and Volkov, N), Jan., 153

# Death

A 36-year history of fatal road rage in Marion County, Oregon: 1936–1998 (Batten, PJ, Penn, DW, and Bloom, JD), March, 397 A review of crane deaths in Jefferson County, Alabama (Davis, GG and Brissie, RM), March, 392

Aging and homicide rates (Paanila, J, Eronen, M, Hakola, P, and Tiihonen, J), March, 390

Unusual cases of suicide among health care workers (Budakov, BM, Simic, MA, Tasic, MM, and Vujic, DN), July, 923

## Decomposition

Comparison of patterns of decomposition in a hanging carcass in contact with soil in a

xerophytic habitat on the Island of Oahu, Hawaii (Shalaby, OA, deCarvalho, LML, and Goff, ML), Nov., 1267

Decomposition patterns in terrestrial and intertidal habitats on Oahu Island and Coconut Island, Hawaii (Davis, JB and Goff, ML), July, 836

## **Demographics**

The state of electroconvulsive therapy in Texas. Part I: Reported data on 41,660 ECT treatments in 5971 patients (Scarano, VR, Felthous, AR, and Early, TS), Nov., 1197

## Dendrimer

Diimide-enhanced fingerprint detection with photoluminescent CdS/dendrimer nanocomposites (Bouldin, KK, Menzel, ER, Takatsu, M, and Murdock, RH), Nov., 1239

## **Density gradients**

A density gradient technique for use in forensic soil analysis (Petraco, N and Kubic, T), July, 872

## **Dental** hygienist

The role of the dental hygienist in mass disasters (Brannon, RB and Connick, CM), March, 381

## Derivatization

Determination of amphetamine by HPLC after acetylation (Veress, T), Jan., 161

## Dermatoglyphs

Obtaining fingerprints from mummified fingers: a method for tissue rehydration adapted from the archeological literature (Schmidt, CW, Nawrocki, SP, Williamson, MA, and Marlin, DC), July, 874

## **Detection techniques**

Evaluation of 1,2-indanedione and 5,6-dimethoxy-1,2-indanedione for the detection of latent fingerprints on porous surfaces (Roux, C, Jones, N, Lennard, C, and Stoilovic, M), July, 761

## Determination

Determination of amphetamine by HPLC after acetylation (Veress, T), Jan., 161

## Deuterium nuclear magnetic resonance

Geographic origin determination of heroin and cocaine using site-specific isotopic ratio deuterium NMR (Hays, PA, Remaud, GS, Jamin, E, and Martin, YL), May, 552

# Dextropropoxyphene

Among fatal poisonings dextyropropoxyphene predominates in younger people, antidepressants in the middle aged and sedatives in the elderly (Jonasson, BJ, Jonasson, U, and Saldeen, T), Jan., 7

#### DFO

Threat mail and forensic science: DNA profiling from items of evidence after treatment with DFO (Zamir, A, Oz, C, and Geller, B), March, 445

#### Diabetic ketoacidosis

Beta-hydroxybutyric acid—an indicator for an alcoholic ketoacidosis as cause of death in deceased alcohol abusers (Iten, PX and Meier, M), May, 624

#### Dinucleotide

Population studies and validation of paternity determination by six microsatellite loci (Ingvarsson, S, Finnsdottir, V, Sigurdsson, A, and Geirsson, G), May, 692

## Diphenylamine

Comparing the additive composition of smokeless gunpowder and its handgunfired residues (Reardon, MR, MacCrehan, WA, and Rowe, WF), Nov., 1232

#### Disorders

On the assessment of children in suspected child sexual abuse in light of Daubert and Frye: limitations of profiles and interviews as scientifically grounded evidence (Bigelow, BJ), May, 573

## Distribution

Anatomical location of bitemarks and associated findings in 101 cases from the United States (Pretty, IA and Sweet, D), July, 812

## DLA-DOA1

Distribution of HLA-DQA1 and amplitype PM locus alleles in a Saudi Arabian population sample (Tahir, MA, Sinha, S, Rogers, C, Tahir, U, Balamurugan, K, Al-Kubaidan, NA, and Amjad, M), Jan., 236

#### DNA

Loss of heterozygosity detected in a short tandem repeat (STR) locus commonly used for human DNA identification (Rubocki, RJ, Duffy, KJ, Shepard, KL, McCue, BJ, Shepard, SJ, and Wisecarver, JL), Sept., 1087

# **DNA** extraction

DNA extraction from stamps and envelope flaps using QIAamp and QIAshredder (Sinclair, K and McKechnie, VM), Jan., 229

## **DNA** typing

A novel approach to obtaining reliable PCR results from luminol treated bloodstains (Della Manna, A and Montpetit, S), July, 886

A novel method for forensic DNA investigations: repeat-type sequence analysis of tandemly repeated mtDNA in domestic dogs (Savolainen, P, Arvestad, L, and Lundeberg, J), Sept., 990

A systematic and quantitative analysis for PCR template contamination (Urban, C, Gruber, F, Kundi, M, Falkner, FG, Dorner, F, and Hämmerle, T), Nov., 1307

Allele and genotype frequencies for D1S80 and 3'APOB in Recanati, Central Italy (Biondolillo, M, Mamolini, E, Manni, F, Scapoli, C, Lorenzetti, L, and Barrai, I), Sept., 1080

Allele and genotype frequencies for D1S80 locus in a Brazilian population sample

(Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Munoz, DR, and Otto, PA), May, 696

Allele frequencies for nine STR loci in African American and Caucasian populations from Marion County, Indiana, USA (Balamurugan, K, Budowle, B, and Tahir, MA), May, 744

Allele frequencies for the COFILER<sup>TM</sup> STR loci in the Canadian and Canadian First nations populations. (Borys, S, Vanstone, H, Carmody, G, and Fourney, R), July, 945

Allele frequencies for the COFILER<sup>TM</sup> STR loci in the Canadian caucasian and Canadian First nations populations (Borys, S, Vanstone, H, Carmody, G, and Fourney, R), July, 947

Allele frequency distributions for three STR loci in the Han and Thai populations (Huang, DX, Zhang, L, and Wu, MY), Nov., 1352

Allele frequency distributions for twelve STR loci in a Brazilian population (Barros de Castro, IA, Rinzler, CMC, and Rumjanek, FD), July, 941

Allele frquencies for the CODIS core STR loci in Connecticut populations (Scherczinger, CA, Hintz, JL, Peck, BJ, Adamowicz, MS, Bourke, MT, Coyle, HM, Ladd, C, Yang, NCS, Budowle, B, and Lee, HC), July, 938

Allelic distribution for two short tandem repeat loci: D10S2325 and D20S161 (Baasner, A and Madea, B), Nov., 1349

Allelic distribution of four tetranucleotide repeat loci (D3S1358, D18S51, D19S253, and FGA) in a population from Porto (North Portugal) (Pinheiro, F, Pontes, L, da Costa, JP, Huguet, E, Moreno, P, and Gené, M), July, 891

Allelic frequencies for the HLA-DQA1, D1S80, HUMTHO1, HUMTPOX, HUM-CSF1PO and HUMVWA loci in Cantabria (middle north Spain) (Sánchez-Molina, I and Calvet, R), Jan., 167

An evaluation of the relevance of routine DNA typing of fingernail clippings for forensic casework (Oz, C and Zamir, A), Jan., 158

Distribution of D1S80 and HLA-DQA1 alleles in a southern Italian population sample (Di Nunno, N, Baldassarra, SL, Carbonara, M, Viola, L, Mangiatordi, S, and Di Nunno, C), July, 944

Distribution of HLA-DQA1 and amplitype PM locus alleles in a Saudi Arabian population sample (Tahir, MA, Sinha, S, Rogers, C, Tahir, U, Balamurugan, K, Al-Kubaidan, NA, and Amjad, M), Jan., 236

Distribution of HLA-DQA1, polymarker, CSF1PO, vWA, TH01, TPOX, D16S539, D7S820, D13S317, and D5S818 alleles in East Bengali and West Punjabi populations from Indo-Pak Subcontinent (Tahir, MA, Herrera, RJ, Khan, AA, Kashyap, VK, Duncan, G, Barna, C, Budowle, B, Rowold, DJ, Amjad, M, and Sinha, S), Nov., 1320

Distribution of HumvWA31, HumFESFPS, HumTH01, Hum TPOX, HumCD4, HumCSF1PO alleles in a southern Italian population sample (Di Nunno, N, Baldassarra, SL, Carbonara, M, Guanti, G, Resta, N, Viola, L, and Di Nunno, C), July, 943

Distriution of amplified fragment length polymorphism D1S80 alleles in a Saudi Arabian population (Tahir, MA, Sinha, SK, A-AL-Kubaidan, N, Thair, UA, Budowle, B, and Amjad, M), Sept., 1159

DNA extraction from stamps and envelope flaps using QIAamp and QIAshredder (Sinclair, K and McKechnie, VM), Jan., 229

DNA typing of samples for polymarker, DQA1, and nine STR loci from a human body exhumed after 27 years (Tahir, MA, Balraj, E, Luke, L, Gilbert, T, Hamby, JE, and Amjad, M), July, 902

Evaluation of an alkaline lysis method for the extraction of DNA from whole blood and forensic stains for STR analysis (Klintschar, M and Neuhuber, F), May, 669 Gene frequencies for four hypervariable DNA loci in a Chilean population of mixed ancestry (Acuña, M, Jorquera, H, Armanet, L, and Cifuentes, L), Sept., 1160

Gene frequencies for six STR loci in a Chilean population of mixed ancestry (Figueroa, CC, Acuña, M, and Cifuentes, L), May, 742

Han Chinese population data in Chongqing China for nine STR loci (Wan, LH, Cao, Y, Xiu, CX, and Liu, C), March, 504

HLA-DQA1 and polymarker locus allele frequencies for Elazig/Turkey (Dulger, HE and Tokdemir, M), July, 942

Mitochondrial DNA HVI and HVII variation in a North-East Spanish population (Martinez-Jarreta, B, Prades, A, Calafell, F, and Budowle, B), Sept., 1162

Northeast Italy population data using multiplex PCR (HUMCD4, HUMTH01, HUMTPOX, and HUMCSF1P0) loci (Turrina, S, De Leo, D, and Marigo, M), Nov., 1324

Parentage testing on blood crusts from firearms projectiles by DNA typing settles an insurance fraud case (Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Cardoso, LA, and Muñoz, DR), Sept., 1142

Paternity-testing on paraffin-embedded abortion tissue: preparation of fetal cells may be indispensable (Zehner, R and Lasczkowski, G), Nov., 1332

Population data on the X chromosome short tandem repeat locus HumHPRTB in two regions of Germany (Szibor, R, Lautsch, S, Plate, I, and Beck, N), Jan., 231

Population frequency for the short tandem repeat loci D18S849, D3S1744, and D12S1090 in Caucasian-Mestizo and African descent populations of Colombia (Yunis, JJ, Garcia, O, Baena, A, Arboleda, G, Uriarte, I, and Yunis, E), March, 429 Population genetics of nine STR loci in two populations from Brazil (Corte-Real, F, Andrade, L, Anjos, MJ, Carvalho, M, Vieira,

DN, Carracedo, A, and Vide, MC), March, 432

Promega Corporation reveals primer sequences in its testing kits (Masibay, A, Mozer, TJ, and Sprecher, C), Nov., 1360 RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

RFLP band size standards: NIST standard reference material® 2390 (Duewer, DL, Richie, KL, and Reeder, DJ), Sept., 1093 Sequence polymorphisms of the mitochondrial DNA control region in 100 German Caucasians (Baasner, A and Madea, B), Nov., 1343

Sequence variation of new alleles at the short tandem repeat D19S253 locus (Brito, RM, Ribeiro, T, Viriato, L, Vieira-Silva, C, Espinheira, R, Pinto-Ribeiro, I, and Geada, H), July, 932

The analysis of three short tandem repeat (STR) loci in the Slovene population by multiplex PCR (Drobnic, K and Budowle, B), July, 893

The distribution of D1S80 and vWA alleles in a Karen population from Northern Thailand (Steger, HF, Bhoopat, T, Sridoungkaew, S, and Sanguansermsri, T), March, 440

Usefulness of a toothbrush as a source of evidential DNA for typing (Tanaka, M, Yoshimoto, T, Nozawa, H, Ohtaki, H, Kato, Y, Sato, K, Yamamoto, T, Tamaki, K, and Katsumata, Y), May, 674

Validation of the PowerPlex 1.1<sup>TM</sup> loci for use in human identification (Greenspoon, SA, Lytle, PJ, Turek, SA, Rolands, JM, Scarpetta, MA, and Carr, CD), May, 677 World population data for the HLA-DQA1, PM® and D1S80 loci with least and most common profile frequencies for combinations of loci estimatted following NRC II guidelines (Peterson, BL, Su, B, Chakraborty, R, Budowle, B, and Gaensslen, RE), Jan., 118

## **DNA**-analysis

Superfecundation and dual paternity in a twin pregnancy ending with placental abruption (Ambach, E, Parson, W, and Brezinka, C), Jan., 181

#### Dog

A novel method for forensic DNA investigations: repeat-type sequence analysis of tandemly repeated mtDNA in domestic dogs (Savolainen, P, Arvestad, L, and Lundeberg, J), Sept., 990

## DQA1

Distribution of HLA-DQA1, polymarker, CSF1PO, vWA, TH01, TPOX, D16S539, D7S820, D13S317, and D5S818 alleles in East Bengali and West Punjabi populations from Indo-Pak Subcontinent (Tahir, MA, Herrera, RJ, Khan, AA, Kashyap, VK, Duncan, G, Barna, C, Budowle, B, Rowold, DJ, Amjad, M, and Sinha, S), Nov., 1320

DNA typing of samples for polymarker, DQA1, and nine STR loci from a human body exhumed after 27 years (Tahir, MA, Bałraj, E, Luke, L, Gilbert, T, Hamby, JE, and Amjad, M), July, 902

## Drug analysis

ABC response (Selavka, CM), May, 750 Analysis of morphine by RIA and HPLC in fingernail clippings obtained from heroin users (Lemos, NP, Anderson, RA, Valentini, R, Tagliaro, F, and Scott, RT), March, 407

Commentary on the American Board of Criminalistics (ABC) Certification Process (Adamo, R, Chany, C, Drummond, F, Hung, SM, Pool, T, Quarino, L, Ristenbatt, III, RR, and Pietro, DS), May, 749

## **Drug elimination**

Elimination of 7-aminoflunitrazepam and flunitrazepam in urine after a single dose of rohypnol<sup>®</sup> (Negrusz, A, Moore, CM, Stockham, TL, Poiser, KR, Kern, JL, Palaparthy, R, Le, NLT, Janicak, PG, and Levy, NA), Sept., 1031

## Drug packaging

Tracing the source of illicit drugs through plastic packaging—a database (Roux, C, Bull, S, Goulding, J, and Lennard, C), Jan., 99

# Drug-facilitated

Analysis of biofluids for flunitrazepam and metabolites by electrospray liquid chromatography/mass spectrometry (LeBeau, MA, Montgomery, MA, Wagner, JR, and Miller, ML), Sept., 1133

## Drug-facilitated sexual assault

Elimination of 7-aminoflunitrazepam and flunitrazepam in urine after a single dose of rohypnol<sup>®</sup> (Negrusz, A, Moore, CM, Stockham, TL, Poiser, KR, Kern, JL, Palaparthy, R, Le, NLT, Janicak, PG, and Levy, NA), Sept., 1031

## **Drug-related deaths**

Drug-related deaths among recently released prisoners in the Strathclyde Region of Scotland (Seymour, A, Oliver, JS, and Black, M), May, 649

#### Drugs

Erratum (Aitken, CGG), May, 751

E

## Ecgonine methyl ester

Regional distribution of cocaine in postmortem brain of chronic human cocaine users (Kalasinsky, KS, Bosy, TZ, Schmunk, GA, Ang, L, Adams, VI, Gore, SB, Smialek, J, Furukawa, Y, Guttman, M, and Kish, SJ), Sept., 1041

#### Ecstasy

Solid-phase extraction for profiling of ecstasy tablets (Rashed, AM, Anderson, RA, and King, LA), March, 413

## "Ecstasy"

Hair analysis: self-reported use of "Speed" and "Ecstasy" compared with laboratory findings (Cooper, GA, Allen, DL, Scott, KS, Oliver, JS, Ditton, J, and Smith, I), March, 400

#### EEG

Author's response (Shapiro, CM, Kayumov, L, and Fedoroff, JP), Sept., 1164

#### Elderly

Elderly sexual offenders admitted to a maximum-security forensic hospital (Rayel, MC), Nov., 1190

## **Elderly offenders**

Clinical and demographic characteristics of elderly offencers at a maximum-security forensic hospital (Rayel, MG), Nov., 1193

## Electroconvulsive therapy

The state of electroconvulsive therapy in Texas. Part I: Reported data on 41,660 ECT treatments in 5971 patients (Scarano, VR, Felthous, AR, and Early, TS), Nov., 1197

## Electrocution

Suicide by electrocution with low-voltage current (Marc, B, Baudry, F, Douceron, H, Ghaith, A, Wepierre, JL, and Garnier, M), Jan., 216

## **Electromagnetic methods**

The search for "Yvonne": a case example of the delineation of a grave using near-surface geophysical methods (Nobes, DC), May, 715

# Electrostatic detection apparatus

Correction of: Seward GH. Practical implications of charge transport model for electrostatic detection apparatus (ESDA). J Forensic Sci 1999 July;44(4):832–6 (Seward, GH), March, 506

#### ELISA

A sandwich enzyme-linked immunosorbent assay for ABO blood typing of semen by using anti-p 84 monoclonal antibody as a marker of blood group substance in semen (Sato, I, Nakamura, A, Ujiie, K, Yukawa, N, and Nakajima, Y), July, 795

# **Emergency medicine**

Screening of amphetamine/methamphetamine and their derivatives in urine using FPIA and Triage<sup>TM8</sup> and the scope and limits of a subsequent identification by means of the REMNEDi<sup>TM</sup> HS system (Felscher, D and Schulz, K), Nov., 1327

# Encephalitis

Hydrocephalus: a fatal late consequence of mumps encephalitis (González-Gil, J, Zarrabeitia, MT, Altuzarra, E, Sánchez-Molina, I, and Calvet, R), Jan., 204

## Endoscopy

Erratum/correction of Platt MS, Roe DC. Complications following insertion and replacement of percutaneous endoscopic gastrostomy (PEG) tubes. J Forensic Sci 2000;45(4):833–835 (Platt, MS and Roe, DC), Sept., 1179

#### **Endotracheal intubation**

Determining the state of the deceased during cardiopulmonary resuscitation from tissue distribution patterns of intubation-related lidocaine (Moriya, F and Hashimoto, Y), July, 846

## Energy dispersive X-ray analysis

Rapid search and quantitative analysis of gunshot residue particles in the SEM (Lebiedzik, J and Johnson, DL), Jan., 83

## Enterostomy

Complications following insertion and replacement of percutaneous endoscopic gastrostomy (PEG) tubes (Platt, MS and Roe, DC), July, 833

Erratum/correction of Platt MS, Roe DC. Complications following insertion and replacement of percutaneous endoscopic gastrostomy (PEG) tubes. J Forensic Sci 2000;45(4):833–835 (Platt, MS and Roe, DC), Sept., 1179

## **Epilepsy**

Commentary on George JR, Davis GG. Comparision of anti-epileptic drug levels in different cases of sudden death. J Forensic Sci 1998;43:595–603 (May, TW and Schnabel, R), May, 748

Postmortem investigation of lamotrigine concentrations (Pricone, MG, King, CV, Drummer, OH, Opeskin, K, and McIntyre, IM), Jan., 11

## **Ethics**

The multidisciplinary approach to dealing with families: a model for medical examiners (Coburn, MU, Borges, MC, Knake, E, and Harper, M), Nov., 1278

## Ethyl centralite

Comparing the additive composition of smokeless gunpowder and its handgunfired residues (Reardon, MR, MacCrehan, WA, and Rowe, WF), Nov., 1232

## Ethyl chloride

Death due to inhalation of ethyl chloride (Broussard, LA, Broussard, AK, Pittman, TS, and Lirette, DK), Jan., 223

## Eucalliphora latifrons

Minimum and maximum development rates of some forensically important Callphoridae (Diptera) (Anderson, GS), July, 824

## Evidence cleaning technique

Restoration tactics for seriously corroded Cu and Cu-alloy firearms evidence (Randich, E, Fickies, TE, Tulleners, FA, Andresen, BD, and Grant, PM), Nov., 1316

## Exhumation

DNA typing of samples for polymarker, DQA1, and nine STR loci from a human body exhumed after 27 years (Tahir, MA, Balraj, E, Luke, L, Gilbert, T, Hamby, JE, and Amjad, M), July, 902

#### **Explosives**

Optimization of solid-phase microextraction (SPME) for the recovery of explosives from aqueous and post-explosion debris followed by gas and liquid chromatographic analysis (Furton, KG, Wu, L, and Almirall, JR), July, 857

Physical and chemical evidence remaining after the explosion of large improvised bombs. Part 2: firings of calcium ammomium nitrate/sugar mixtures (Cullum, H, Lowe, A, Marshall, M, and Hubbard, P), March, 333

Physical and chemical evidence remaining after the explosion of large improvised bombs. Part I: firings of ammonium nitrate/sugar and urea nitrate (Phillips, SA, Lowe, A, Marshall, M, Hubbard, P, Burmeister, SG, and Williams, DR), March, 324

#### External examination

Suicide by electrocution with low-voltage current (Marc, B, Baudry, F, Douceron, H, Ghaith, A, Wepierre, JL, and Garnier, M), Jan., 216

#### Extracranial

Periadventitial extracranial vertebral artery hemorrhage in a case of Shaken Baby Syndrome (Gleckman, AM, Kessler, SC, and Smith, TW), Sept., 1151

## Extraction

Evaluation of an alkaline lysis method for the extraction of DNA from whole blood and forensic stains for STR analysis (Klintschar, M and Neuhuber, F), May, 669

F

## F13A01

Allele frequency distributions for twelve STR loci in a Brazilian population (Barros de Castro, IA, Rinzler, CMC, and Rumjanek, FD), July, 941

#### F13B

Population genetics of HPRTB, F13B, and LPL in Pernambuco, Northeast Brazil (Mauricio-da-Silva, L, Silva, RS, Dellalibera, E, and Donadi, EA), May, 684

# Facial tissue depth standards

In vivo facial tissue depth measurements for children and adults (Manhein, MH, Listi, GA, Barsley, RE, Musselman, R, Barrow, NE, and Ubelaker, D), Jan., 48

## Fatal poisoning

Fatal poisoning from nicotiana glauca leaves: identification of anabasine by gaschromatography/mass spectrometry (Mizrachi, N, Levy, S, and Goren, Z), May, 736

#### Feces

Use of fecal material to associate a suspect with a crime scene: report of two cases (Norris, DO and Bock, JH), Jan., 184

#### Federal Rules of Evidence

On the assessment of children in suspected child sexual abuse in light of Daubert and Frye: limitations of profiles and interviews as scientifically grounded evidence (Bigelow, BJ), May, 573

## **Fertilizer**

Physical and chemical evidence remaining after the explosion of large improvised bombs. Part 2: firings of calcium ammomium nitrate/sugar mixtures (Cullum, H, Lowe, A, Marshall, M, and Hubbard, P), March, 333

## **FESFPS**

Allele frequency distributions for twelve STR loci in a Brazilian population (Barros de Castro, IA, Rinzler, CMC, and Rumjanek, FD), July, 941

#### FGA

Population genetics of nine STR loci in two populations from Brazil (Corte-Real, F, Andrade, L, Anjos, MJ, Carvalho, M, Vieira, DN, Carracedo, A, and Vide, MC), March, 432

## Fingermarks

Fingerprint enhancement revisited and the effects of blood enhancement chemicals on subsequent Profiler Plus™ fluorescent short tandem repeat DNA analysis of fresh and aged bloody fingerprints (Frégeau, CJ, Germain, O, and Fourney, RM), March, 354

## Fingernail clippings

An evaluation of the relevance of routine DNA typing of fingernail clippings for forensic casework (Oz, C and Zamir, A), Jan., 158

# **Fingernails**

DNA typing of samples for polymarker, DQA1, and nine STR loci from a human body exhumed after 27 years (Tahir, MA, Balraj, E, Luke, L, Gilbert, T, Hamby, JE, and Amjad, M), July, 902

## Fingerprint development

Reagents for the chemical development of latent fingerprints: scope and limitations of benzo[f]ninhydrin in comparison to ninhydrin (Almog, J, Sears, VC, Springer, E, Hewlett, DF, Walker, S, Wiesner, S, Lidor, R, and Bahar, E), May, 538

# Fingerprint processing

Fingerprints and DNA: STR typing of DNA extracted from adhesive tape after processing for fingerprints (Zamir, A, Springger, E, and Glattstein, B), May, 687

## **Fingerprints**

A new visibly-excited fluorescent component in latent fingerprint residue induced by gaseous electrical discharge (Davies, LM, Jones, NE, Brennan, JS, and Bramble, SK), Nov., 1294

A scanning beam time-resolved imaging system for fingerprint detection (Roorda,

RD, Ribes, AC, Damaskinos, S, Dixon, AE, and Menzel, ER), May, 563

ABTS: a safe alternative to DAB for the enhancement of blood fingerprints (Caldwell, JP, Henderson, W, and Kim, ND), July, 785

Diimide-enhanced fingerprint detection with photoluminescent CdS/dendrimer nanocomposites (Bouldin, KK, Menzel, ER, Takatsu, M, and Murdock, RH), Nov., 1239

Evaluation of 1,2-indanedione and 5,6-dimethoxy-1,2-indanedione for the detection of latent fingerprints on porous surfaces (Roux, C, Jones, N, Lennard, C, and Stoilovic, M), July, 761

Fingerprint enhancement revisited and the effects of blood enhancement chemicals on subsequent Profiler Plus™ fluorescent short tandem repeat DNA analysis of fresh and aged bloody fingerprints (Frégeau, CJ, Germain, O, and Fourney, RM), March, 354

Method for characterization of adhesion properties of trace explosives in fingerprints and fingerprint simulations (Phares, DJ, Holt, JK, Smedley, GT, and Flagan, RC), July, 774

Photoluminescent CdS/Dendrimer nanocomposites for fingerprint detection (Menzel, ER, Takatsu, M, Murdock, RH, Bouldin, K, and Cheng, KH), July, 770

Photoluminescent semiconductor nanocrystals for fingerprint detection (Menzel, ER, Savoy, SM, Ulvick, SJ, Cheng, KH, Murdock, RH, and Sudduth, MR), May, 545

Separation of visibly-excited fluorescent components in fingerprint residues by thinlayer chromatography (Jones, NE, Davies, LM, Brennan, JS, and Bramble, SK), Nov., 1286

## Fire debris

The detection and analysis of ignitable liquid residues extracted from human skin using SPME/GC (Almirall, JR, Wang, J, Lothridge, K, and Furton, KG), March, 453

The petroleum-laced background (Lentini, JJ, Dolan, JA, and Cherry, C), Sept., 968

# Firearms

Consecutive matching striation criteria: a general critique (Bunch, SG), Sept., 955 The accelerated polyvinyl-alcohol method for GSR collection—PVAL 2.0 (Schyma, C and Placidi, P), Nov., 1303

Time since discharge of rifles (Andrasko, J and Ståhling, S), Nov., 1250

# Firearms discharge residue (FDR)

Rapid search and quantitative analysis of gunshot residue particles in the SEM (Lebiedzik, J and Johnson, DL), Jan., 83

## Fired bullets

Application of true color X-ray vision for electron microscopy in fired bullets and gunshot residue investigation (Torre, C and Mattutino, G), July, 865

## Flunitrazepam

Analysis of biofluids for flunitrazepam and metabolites by electrospray liquid chromatography/mass spectrometry (LeBeau, MA, Montgomery, MA, Wagner, JR, and Miller, ML), Sept., 1133

Elimination of 7-aminoflunitrazepam and flunitrazepam in urine after a single dose of rohypnol® (Negrusz, A, Moore, CM, Stockham, TL, Poiser, KR, Kern, JL, Palaparthy, R, Le, NLT, Janicak, PG, and Levy, NA), Sept., 1031

Fatal intoxication following self-administration of a massive dose of buprenorphine (Gaulier, JM, Marquet, P, Lacassie, E, Dupuy, JL, and Lachatre, G), Jan., 226

#### Fluorescein

The presumptive reagent fluorescein for detection of dilute bloodstains and subsequent STR typing of recovered DNA (Budowle, B, Leggitt, JL, Defenbaugh, DA, Keys, KM, and Malkiewicz, SF), Sept., 1090

#### Fluorescence

Fingerprint enhancement revisited and the effects of blood enhancement chemicals on subsequent Profiler Plus<sup>TM</sup> fluorescent short tandem repeat DNA analysis of fresh and aged bloody fingerprints (Frégeau, CJ, Germain, O, and Fourney, RM), March, 354

## Fluorescin

The presumptive reagent fluorescein for detection of dilute bloodstains and subsequent STR typing of recovered DNA (Budowle, B, Leggitt, JL, Defenbaugh, DA, Keys, KM, and Malkiewicz, SF), Sept., 1090

# Foot morphology

Increasing the identification potential from human foot remains (Rich, J), March, 505

#### Footwear

Increasing the identification potential from human foot remains (Rich, J), March, 505

## Forensic anthropology

Age estimation by occlusal tooth wear (Kim, YK, Kho, HS, and Lee, KH), March, 303

Age estimation from sternal ends of ribs by phase analysis in South African Blacks (Oettlé, AC and Steyn, M), Sept., 1071 Archaeology, science and forensic anthropology: a tribute to Dr. T. Dale Stewart (Bass, WM and Bennett, JL), March, 267 Becoming respectable: T. Dale Stewart and the acceptance of forensic anthropology in the academic community (Kennedy, KAR), March, 253

Dr. T. Dale Stewart's Travels (Prokopec, M), March, 258

Gelatinase A in human dentin as a new biochemical marker for age estimation (Martín-de las Heras, S, Valenzuela, A, and Overall, CM), July, 807

Publications of T. Dale Stewart (1901–1997) (Ubelaker, DH), March, 279

Sex variation in the second cervical vertebra (Wescott, DJ), March, 462

Strontium isotope composition of skeletal material can determine the birth place and geographic mobility of humans and animals (Beard, BL and Johnson, CM), Sept., 1049 Symposium: essays honoring T. Dale Stewart, M.D. (1901–1997) (Ubelaker, DH), March, 243

T. Dale Stewarat: remembrances of a scholar and colleague (Finnegan, M), March, 265

The Forensic Anthropology Legacy of T. Dale Stewart (1901–1997) (Ubelaker, DH), March, 245

The postmortem fate of Pat Gregory: a disinterred Native American (Murad, TA and Murad, TD), March, 488

Use of radiographic atlases in a mass fatality (Warren, MW, Smith, KR, Stubblefield, PR, Martin, SS, and Walsh-Haney, HA), March, 467

## Forensic botany

Use of fecal material to associate a suspect with a crime scene: report of two cases (Norris, DO and Bock, JH), Jan., 184

## Forensic dental records

Burned beyond recognition: systematic approach to the dental identification of charred human remains (Delattre, VF), May, 589

## Forensic dentistry

Burned beyond recognition: systematic approach to the dental identification of charred human remains (Delattre, VF), May, 589

## Forensic DNA typing

Population studies and validation of paternity determination by six microsatellite loci (Ingvarsson, S, Finnsdottir, V, Sigurdsson, A, and Geirsson, G), May, 692

# Forensic engineering

When is 100% inspection not enough? An analysis of three pickup truck front wheel assembly failures (Van Kirk, DJ, Sas, JP, and Cross, PN), Jan., 175

## Forensic entomology

Chrysomya rufifacies (Macquart) (Diptera: Calliphoridae) established in the vicinity of Knoxville, Tennessee, USA (Shahid, SA, Hall, RD, Haskell, NH, and Merritt, RW), July, 896

Comparison of patterns of decomposition in a hanging carcass in contact with soil in a xerophytic habitat on the Island of Oahu, Hawaii (Shalaby, OA, deCarvalho, LML, and Goff, ML), Nov., 1267

Decomposition patterns in terrestrial and intertidal habitats on Oahu Island and Coconut Island, Hawaii (Davis, JB and Goff, ML), July, 836

Minimum and maximum development rates of some forensically important Callphoridae (Diptera) (Anderson, GS), July, 824

## Forensic genetics

Population frequency distribution of HumF13A01, HumFXIIIB, and Hum-LIPOL loci in the Basque Country (Northern Spain) (Fernández-Fernández, I, Castro, A, Buján, M, Cuevas, N, García-Orad, A, and de Pancorbo, MM), Sept., 1083

## Forensic hair comparision

The use of microscopic postmortem changes in anagen hair roots to associate questioned hairs with known hairs and reconstruct events in two murder cases (Tafaro, JT), March, 495

## Forensic medicine

Among fatal poisonings dextyropropoxyphene predominates in younger people, antidepressants in the middle aged and sedatives in the elderly (Jonasson, BJ, Jonasson, U, and Saldeen, T), Jan., 7

## Forensic odontology

Age estimation by occlusal tooth wear (Kim, YK, Kho, HS, and Lee, KH), March, 303

Burned beyond recognition: systematic approach to the dental identification of charred human remains (Delattre, VF), May, 589

Gelatinase A in human dentin as a new biochemical marker for age estimation (Martín-de las Heras, S, Valenzuela, A, and Overall, CM), July, 807

The role of the dental hygienist in mass disasters (Brannon, RB and Connick, CM), March, 381

## Forensic pathology

Chrysomya rufifacies (Macquart) (Diptera: Calliphoridae) established in the vicinity of Knoxville, Tennessee, USA (Shahid, SA, Hall, RD, Haskell, NH, and Merritt, RW), July, 896

A 36-year history of fatal road rage in Marion County, Oregon: 1936–1998 (Batten, PJ, Penn, DW, and Bloom, JD), March, 397 A review of crane deaths in Jefferson County, Alabama (Davis, GG and Brissie, RM), March, 392

Author's Response (Davis, GG), May, 749 Ballistic characterization of the Remington Premier® Copper Solid™ sabot shotgun slug (Ward, ME and Nolte, KB), Nov., 1259

Decomposition patterns in terrestrial and intertidal habitats on Oahu Island and Coconut Island, Hawaii (Davis, JB and Goff, ML), July, 836

Fatal aspiration of sardine fry in a patient with lung cancer (Inayama, Y, Udaka, N, Amano, T, Watanuki, Y, Odagiri, S, Kawano, N, and Nakatani, Y), March, 478 Heroin body packing: three fatal cases of intestinal perforation (Hutchins, KD, Pierre-Louis, PJ, Zaretski, L, Williams, AW, Lin, R-L, and Natarajan, GA), Jan., 42 Ketamine in non-hospital and hospital

deaths in New York City (Gill, JR and Stajíc, M), May, 655

Motorboat propeller injuries (Di Nunno, N and Di Nunno, C), July, 917

Neck injuries caused by being run over by a motor vehicle (Maxeiner, H, Ehrlich, E, and Schyma, C), Jan., 31

Radiography of perforating centerfire rifle wounds of the trunk (Straathof, D, Bannach, BG, Wilson, AJ, and Dowling, GP), May, 597

Suffocation using plastic bags: a retrospective study of suicides in Ontario, Canada (Bullock, MJ and Diniz, D), May, 608

Suicide: a ten-year retrospective study (Bennett, AT and Collins, KA), Nov., 1256 The Frye hearing in Florida: an attempt to exclude scientific evidence (Sturner, WQ, Herrmann, MA, Boden, C, Scarritt, TP, Sherman, RE, Harmon, TS, and Woods, KB), July, 908

The multidisciplinary approach to dealing with families: a model for medical examiners (Coburn, MU, Borges, MC, Knake, E, and Harper, M), Nov., 1278

Unusual cases of suicide among health care workers (Budakov, BM, Simic, MA, Tasic, MM, and Vujic, DN), July, 923

Work-place homicide by bow and arrow (Eriksson, A, Georén, B, and Öström, M), July, 911

## Forensic psychiatry

A 36-year history of fatal road rage in Marion County, Oregon: 1936–1998 (Batten, PJ, Penn, DW, and Bloom, JD), March, 397

A cross-cultural review of sudden mass assault by a single individual in the oriental and occidental cultures (Hempel, AG, Levine, RE, Meloy, JR, and Westermeyer, J), May, 582

A replication study of obsessional followers and offenders with mental disorders (Meloy, JR, Rivers, L, Siegel, L, Gothard, S, Naimark, D, and Nicolini, JR), Jan., 147 Characteristics of mentally retarded criminal offenders in Northern Taiwan (Su, KP, Yu, JM, Yang, TW, Tsai, SY, and Chen, CC), Nov., 1207

Familicide, depression and catathymic process (Schlesinger, LB), Jan., 200

Hate crimes on the Internet (Deirmenjian, JM), Sept., 1020

On the assessment of children in suspected child sexual abuse in light of Daubert and Frye: limitations of profiles and interviews as scientifically grounded evidence (Bigelow, BJ), May, 573

Richard Rosner Awards for the best papers by fellows in forensic psychiatry or forensic psychology (Rosner, R), Nov., 1183

The state of electroconvulsive therapy in Texas. Part 2: Contact with physicians, hospitals, medical liability insurance companies, and manufacturers of stimulus generating equipment (Scarano, VR, Felthous, AR, and Early, TS), Nov., 1203

The state of electroconvulsive therapy in Texas. Part I: Reported data on 41,660 ECT treatments in 5971 patients (Scarano, VR, Felthous, AR, and Early, TS), Nov., 1197

#### Forensic psychology

Familicide, depression and catathymic process (Schlesinger, LB), Jan., 200

On the assessment of children in suspected child sexual abuse in light of Daubert and Frye: limitations of profiles and interviews as scientifically grounded evidence (Bigelow, BJ), May, 573

Richard Rosner Awards for the best papers by fellows in forensic psychiatry or forensic psychology (Rosner, R), Nov., 1183

#### Forensic toxicology

A fatal case of chlorate poisoning: confirmation by ion chromatography of body fluids (Eysseric, H, Vincent, F, Peoc'h, M, Marka, C, Aitken, Y, and Barret, L), March, 474

A non-fatal case of intoxication with foxglove, documented by means of liquid chromatography-electrospray-mass spectrometry (Lacassie, E, Marquet, P, Martin-Dupont, S, Gaulier, JM, and Lachâtre, G), Sept., 1154

Analysis of biofluids for flunitrazepam and metabolites by electrospray liquid chromatography/mass spectrometry (LeBeau, MA, Montgomery, MA, Wagner, JR, and Miller, ML), Sept., 1133

Analysis of morphine by RIA and HPLC in fingernail clippings obtained from heroin users (Lemos, NP, Anderson, RA, Valentini, R, Tagliaro, F, and Scott, RT), March, 407

Carisoprodol, meprobamate, and driving impairment (Logan, BK, Case, GA, and Gordon, AM), May, 619

Commentary on Wu AHB, Hill DW, Crouch D, Hodnett CN, McCurdy HH. Minimal standards for the performance and interpretation of toxicology test in legal proceedings (Kidwell, DA and Smith, FP), Jan., 237

Death due to inhalation of ethyl chloride (Broussard, LA, Broussard, AK, Pittman, TS, and Lirette, DK), Jan., 223

Determining the state of the deceased during cardiopulmonary resuscitation from tissue distribution patterns of intubation-related lidocaine (Moriya, F and Hashimoto, Y), July, 846

Elimination of 7-aminoflunitrazepam and flunitrazepam in urine after a single dose of rohypnol® (Negrusz, A, Moore, CM, Stockham, TL, Poiser, KR, Kern, JL, Palaparthy, R, Le, NLT, Janicak, PG, and Levy, NA), Sept., 1031

Formation of an interfering substance, 3, 4-dimethyl-5-phenyl-1, 3-oxazolidine, during a pseudoephedrine urinalysis (Lewis, RJ, Huffine, EF, Chaturvedi, AK, Canfield, DV, and Mattson, J), July, 898

Further commentary on: Wu AHB, Hill DW, Crouch D, Hodnett CN, McCurdy HH. Minimal standards for the performance and interpretation of toxicology tests in legal proceedings. J Forensic Sci 1999;44(3): 516–522 and on the commentary of Kidwell DA, Smith FP. (Bogusz, MJ), Nov., 1359

Ketamine in non-hospital and hospital deaths in New York City (Gill, JR and Stajíc, M), May, 655

Olanzapine concentrations in clinical serum and postmortem blood specimens—when does therapeutic become toxic (Robertson, MD and McMullin, MM), March, 418

Postmortem foensic toxicology of trazodone (Goeringer, KE, Raymon, L, and Logan, BK), July, 850

Postmortem forensic toxicology of selective serotonin reuptake inhibitors: a review of pharmacology and report of 168 cases (Goeringer, KE, Raymon, L, Christian, GD, and Logan, BK), May, 633

Postmortem redistribution of morphine and its metabolites (Gerostamoulos, J and Drummer, OH), July, 843

Screening of amphetamine/methamphetamine and their derivatives in urine using FPIA and Triage<sup>TM8</sup> and the scope and limits of a subsequent identification by means of the REMNEDi<sup>TM</sup> HS system (Felscher, D and Schulz, K), Nov., 1327

Status of alcohol absorption in drinking drivers killed in traffic accidents (Levine, B and Smialek, J), Jan., 3

The FAA's postmortem forensic toxicology self-evaluated proficiency test program: the first seven years (Chaturvedi, AK), March, 422

Unusual cases of suicide among health care workers (Budakov, BM, Simic, MA, Tasic, MM, and Vujic, DN), July, 923

# Formalin-fixation

Paternity-testing on paraffin-embedded abortion tissue: preparation of fetal cells may be indispensable (Zehner, R and Lasczkowski, G), Nov., 1332

## **FPIA**

Screening of amphetamine/methamphetamine and their derivatives in urine using FPIA and Triage™8 and the scope and limits of a subsequent identification by means of the REMNEDi™ HS system (Felscher, D and Schulz, K), Nov., 1327

## Fracture mechanics

Keyhole defect production in tubular bone (Berryman, HE and Gunther, WM), March, 483

## Freshwater

Algal colonization of submerged carcasses in a mid-order woodland stream (Casamatta, DA and Verb, RG), Nov., 1280

#### Frye

On the assessment of children in suspected child sexual abuse in light of Daubert and Frye: limitations of profiles and interviews as scientifically grounded evidence (Bigelow, BJ), May, 573

## Frye hearing

The Frye hearing in Florida: an attempt to exclude scientific evidence (Sturner, WQ, Herrmann, MA, Boden, C, Scarritt, TP, Sherman, RE, Harmon, TS, and Woods, KB), July, 908

## FTIR spectroscopy

Paint and tape: collection and storage of microtraces of paint in adhesive tape (Bernhard, WR), Nov., 1312

G

## Gas chromatography

The effects of microwave irradiation on occluded solvents in illicitly produced cocaine hydrochloride (Morello, DR, Casale, JF, Stevenson, ML, and Klein, RFX), Sept., 1126

## Gas chromatography-mass spectrometry

Normalization of residual ions after removal of the base peak in electron impact mass spectrometry (Steeves, JB, Gagné, HM, and Buel, E), July, 882

## Gas chromatography/mass spectrometry

Postmortem forensic toxicology of selective serotonin reuptake inhibitors: a review of pharmacology and report of 168 cases (Goeringer, KE, Raymon, L, Christian, GD, and Logan, BK), May, 633

# Gas chromotographic analysis

The petroleum-laced background (Lentini, JJ, Dolan, JA, and Cherry, C), Sept., 968

# Gaseous electrical discharge

A new visibly-excited fluorescent component in latent fingerprint residue induced by gaseous electrical discharge (Davies, LM, Jones, NE, Brennan, JS, and Bramble, SK), Nov., 1294

## Gastrostomy

Complications following insertion and replacement of percutaneous endoscopic gastrostomy (PEG) tubes (Platt, MS and Roe, DC), July, 833

Erratum/correction of Platt MS, Roe DC. Complications following insertion and replacement of percutaneous endoscopic gastrostomy (PEG) tubes. J Forensic Sci 2000;45(4):833–835 (Platt, MS and Roe, DC), Sept., 1179

#### GC

Distribution of HLA-DQA1, polymarker, CSF1PO, vWA, TH01, TPOX, D16S539, D7S820, D13S317, and D5S818 alleles in East Bengali and West Punjabi populations from Indo-Pak Subcontinent (Tahir, MA, Herrera, RJ, Khan, AA, Kashyap, VK,

Duncan, G, Barna, C, Budowle, B, Rowold, DJ, Amjad, M, and Sinha, S), Nov., 1320

HLA-DQA1 and polymarker locus allele frequencies for Elazig/Turkey (Dulger, HE and Tokdemir, M), July, 942

Time since discharge of rifles (Andrasko, J and Ståhling, S), Nov., 1250

#### GC-TEA

Time since discharge of rifles (Andrasko, J and Ståhling, S), Nov., 1250

#### GC/MS

<sup>13</sup>C<sub>4</sub>-secobarbital as the internal standard for the quantitative determination of secobarbital—a critical evaluation (Chang, W-T, Lin, DL, Low, IA, and Liu, RH), May, 659

Analytical methods for ignitable liquid residues (Lentini, JJ), Nov., 1358

Potency trends of  $\triangle^9$ -THC and other cannabinoids in confiscated marijuana from 1980–1997 (ElSohly, MA, Ross, SA, Mehmedic, Z, Arafat, R, Yi, B, and Banahan, BF), Jan., 24

The identification of 2-chloro-4,5-methylenedioxymethylamphetamine in an illicit drug seizure (Lewis, RJ, Reed, D, Service, AG, and Langford, AM), Sept., 1119

## Geology

Strontium isotope composition of skeletal material can determine the birth place and geographic mobility of humans and animals (Beard, BL and Johnson, CM), Sept., 1049

## Geophysical survey

Ground penetrating radar surveys to locate 1918 Spanish flu victims in permafrost (Davis, JL, Heginbottom, JA, Annan, AP, Daniels, RS, Berdal, BP, Bergan, T, Duncan, KE, Lewin, PK, Oxdord, JS, Roberts, N, Skehel, JJ, and Smith, CR), Jan., 68 The search for "Yvonne": a case example of the delineation of a grave using near-surface geophysical methods (Nobes, DC), May, 715

#### Geriatrics

Clinical and demographic characteristics of elderly offencers at a maximum-security forensic hospital (Rayel, MG), Nov., 1193 Elderly sexual offenders admitted to a maximum-security forensic hospital (Rayel, MC), Nov., 1190

## Glue-sniffing

The comparison of toluence determination between headspace-solid phase microextraction and headspace methods in gluesniffer's blood and urine samples (Kim, NY and Park, SW), May, 702

## Grief

The multidisciplinary approach to dealing with families: a model for medical examiners (Coburn, MU, Borges, MC, Knake, E, and Harper, M), Nov., 1278

## Griess reagent

Improved method for shooting distance determination. Part 2—bullet holes in objects that canot be processed in the laboratory (Glattstein, B, Zeichner, A, Vinokurov, A, and Shoshani, E), Sept., 1000

Improved method for shooting distance estimation. Part 1. Bullet holes in clothing items (Glattstein, B, Vinokurov, A, Levin, N, and Zeichner, A), July, 801

## Ground penetrating radar

Ground penetrating radar surveys to locate 1918 Spanish flu victims in permafrost (Davis, JL, Heginbottom, JA, Annan, AP, Daniels, RS, Berdal, BP, Bergan, T, Duncan, KE, Lewin, PK, Oxdord, JS, Roberts, N, Skehel, JJ, and Smith, CR), Jan., 68

#### GSR

A method for collection of gunshot residues from skin and other surfaces (Ståhling, S and Karlsson, T), Nov., 1299

## **Gunshot residue composition**

Rapid search and quantitative analysis of gunshot residue particles in the SEM (Lebiedzik, J and Johnson, DL), Jan., 83

## Gunshot residues

Analysis of primer residue from lead free ammunition by X-ray microfluorescence (Charpentier, B and Desrochers, C), March, 447

Application of true color X-ray vision for electron microscopy in fired bullets and gunshot residue investigation (Torre, C and Mattutino, G), July, 865

Rapid search and quantitative analysis of gunshot residue particles in the SEM (Lebiedzik, J and Johnson, DL), Jan., 83 The accelerated polyvinyl-alcohol method for GSR collection—PVAL 2.0 (Schyma, C and Placidi, P), Nov., 1303

## Gunshot trauma

Keyhole defect production in tubular bone (Berryman, HE and Gunther, WM), March, 483

## **Gunshot wounds**

Suicide: a ten-year retrospective study (Bennett, AT and Collins, KA), Nov., 1256

#### **GYPA**

Analysis of genotype frequencies and interlocus association for the PM, DQA1, and D1S80 loci in four populations (Klitz, W, Reynolds, R, Chen, J, and Erlich, HA), Sept., 1009

HLA-DQA1 and polymarker locus allele frequencies for Elazig/Turkey (Dulger, HE and Tokdemir, M), July, 942

Usefulness of a toothbrush as a source of evidential DNA for typing (Tanaka, M, Yoshimoto, T, Nozawa, H, Ohtaki, H, Kato, Y, Sato, K, Yamamoto, T, Tamaki, K, and Katsumata, Y), May, 674

Н

## HaeW

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

RFLP band size standards: NIST standard reference material® 2390 (Duewer, DL, Richie, KL, and Reeder, DJ), Sept., 1093

#### Hair

Doping control for β-adrenergic compounds through hair analysis (Kintz, P, Dumestree-Toulet, V, Jamey, C, Cirimele, V, and Ludes, B), Jan., 170

# Hair analysis

Hair analysis: self-reported use of "Speed" and "Ecstasy" compared with laboratory findings (Cooper, GA, Allen, DL, Scott, KS, Oliver, JS, Ditton, J, and Smith, I), March, 400

## Hairy maggot blow fly

Chrysomya rufifacies (Macquart) (Diptera: Calliphoridae) established in the vicinity of Knoxville, Tennessee, USA (Shahid, SA, Hall, RD, Haskell, NH, and Merritt, RW), July, 896

## Hand grenade

Suicide using a hand grenade (Siciliano, C, Costantinides, F, Bernasconi, P, and Di Nunno, N), Jan., 208

## Handwriting evidence

Verbal conventions for handwriting opinions (Evett, IW), March, 508

#### Hanging

Comparison of patterns of decomposition in a hanging carcass in contact with soil in a xerophytic habitat on the Island of Oahu, Hawaii (Shalaby, OA, deCarvalho, LML, and Goff, ML), Nov., 1267

# Hardy-Weinberg expectation

The Slovenian population data on the PCR based loci HLA-DQA1, LDLR, GYPA, HBGG, D7S8, GC, and D1S80 (Drobnic, K, Regent, A, and Budowle, B), May, 689

# Hate crimes

Hate crimes on the Internet (Deirmenjian, JM), Sept., 1020

## **HBGG**

Analysis of genotype frequencies and interlocus association for the PM, DQA1, and D1S80 loci in four populations (Klitz, W, Reynolds, R, Chen, J, and Erlich, HA), Sept., 1009

Distribution of HLA-DQA1, polymarker, CSF1PO, vWA, TH01, TPOX, D16S539, D7S820, D13S317, and D5S818 alleles in East Bengali and West Punjabi populations from Indo-Pak Subcontinent (Tahir, MA, Herrera, RJ, Khan, AA, Kashyap, VK, Duncan, G, Barna, C, Budowle, B,

Rowold, DJ, Amjad, M, and Sinha, S), Nov., 1320

HLA-DQA1 and polymarker locus allele frequencies for Elazig/Turkey (Dulger, HE and Tokdemir, M), July, 942

Usefulness of a toothbrush as a source of evidential DNA for typing (Tanaka, M, Yoshimoto, T, Nozawa, H, Ohtaki, H, Kato, Y, Sato, K, Yamamoto, T, Tamaki, K, and Katsumata, Y), May, 674

#### Health care workers

Unusual cases of suicide among health care workers (Budakov, BM, Simic, MA, Tasic, MM, and Vujic, DN), July, 923

## Heart block

Metastatic calcification of the cardiac conduction system with heart block: an underreported entity in chronic renal failure patients (Isotalo, PA, Halil, A, Green, M, Tang, A, Lach, B, and Veinot, JP), Nov., 1335

## Heroin

Geographic origin determination of heroin and cocaine using site-specific isotopic ratio deuterium NMR (Hays, PA, Remaud, GS, Jamin, E, and Martin, YL), May, 552 Identification of heroin in street doses using 1D-TOCSY nuclear magnetic resonance (Suryaprakash, N, Azoury, M, Goren, Z, and Jelinek, R), Sept., 963

## Heroin body packer

Heroin body packing: three fatal cases of intestinal perforation (Hutchins, KD, Pierre-Louis, PJ, Zaretski, L, Williams, AW, Lin, R-L, and Natarajan, GA), Jan., 42

#### Hinf

RFLP band size standards: cell line K562 values from 1991 to 1997 proficiency studies (Duewer, DL, Gary, KT, and Reeeder, DJ), Sept., 1106

RFLP band size standards: NIST standard reference material<sup>®</sup> 2390 (Duewer, DL, Richie, KL, and Reeder, DJ), Sept., 1093

#### History

T. Dale Stewart's perspective on his career as a forensic anthropologist at the Smithsonian (Ubelaker, DH), March, 269

## **HLA-DQA1**

Allelic frequencies for the HLA-DQA1, D1S80, HUMTHO1, HUMTPOX, HUMCSF1PO and HUMVWA loci in Cantabria (middle north Spain) (Sánchez-Molina, I and Calvet, R), Jan., 167

HLA-DQA1 and polymarker locus allele frequencies for Elazig/Turkey (Dulger, HE and Tokdemir, M), July, 942

Mitochondrial DNA HVI and HVII variation in a North-East Spanish population (Martinez-Jarreta, B, Prades, A, Calafell, F, and Budowle, B), Sept., 1162

Parentage testing on blood crusts from firearms projectiles by DNA typing settles an insurance fraud case (Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Cardoso, LA, and Muñoz, DR), Sept., 1142

The Slovenian population data on the PCR based loci HLA-DQA1, LDLR, GYPA, HBGG, D7S8, GC, and D1S80 (Drobnic, K, Regent, A, and Budowle, B), May, 689

## Homemade explosives

Physical and chemical evidence remaining after the explosion of large improvised bombs. Part 2: firings of calcium ammomium nitrate/sugar mixtures (Cullum, H, Lowe, A, Marshall, M, and Hubbard, P), March, 333

Physical and chemical evidence remaining after the explosion of large improvised bombs. Part I: firings of ammonium nitrate/sugar and urea nitrate (Phillips, SA, Lowe, A, Marshall, M, Hubbard, P, Burmeister, SG, and Williams, DR), March, 324

## Homicide

Cause and manner of death among users of anabolic androgenic steroids (Thiblin, I, Lindquist, O, and Rajs, J), Jan., 16

The relationship between substance use, drug selling, and lethal violence in 25 juvenile murderers (McLaughlin, CR, Daniel, J, and Joost, TF), March, 349

Work-place homicide by bow and arrow (Eriksson, A, Georén, B, and Öström, M), July, 911

## Homicide rate

Aging and homicide rates (Paanila, J, Eronen, M, Hakola, P, and Tiihonen, J), March, 390

## Hospitals

The state of electroconvulsive therapy in Texas. Part 2: Contact with physicians, hospitals, medical liability insurance companies, and manufacturers of stimulus generating equipment (Scarano, VR, Felthous, AR, and Early, TS), Nov., 1203

#### HPLC-MS

Author's response (Crouch, DJ and Wu, AHB), Jan., 238

#### HPRTB

Allele frequency distributions for twelve STR loci in a Brazilian population (Barros de Castro, IA, Rinzler, CMC, and Rumjanek, FD), July, 941

Population genetics of HPRTB, F13B, and LPL in Pernambuco, Northeast Brazil (Mauricio-da-Silva, L, Silva, RS, Dellalibera, E, and Donadi, EA), May, 684

# **Human dentin**

Gelatinase A in human dentin as a new biochemical marker for age estimation (Martín-de las Heras, S, Valenzuela, A, and Overall, CM), July, 807

## **Human identification**

Burned beyond recognition: systematic approach to the dental identification of

charred human remains (Delattre, VF), May, 589

## **Human morphology**

Sex differences in proximal humeral outline shape: elliptical fourier functions (Tanaka, H, Lestrel, PE, Uetake, T, Kato, S, and Ohtsuki, F). March, 292

## Human urine

Achiral and chiral quantification of methamphetamine and amphetamine in human urine by semi-micro column high-performance liquid chromatography and fluorescence detection (Al-Dirbashi, OY, Wada, M, Kuroda, N, Takahashi, M, and Nakashima, K), May, 708

#### HumCD4

Northeast Italy population data using multiplex PCR (HUMCD4, HUMTH01, HUMTPOX, and HUMCSF1P0) loci (Turrina, S, De Leo, D, and Marigo, M), Nov., 1324

## HumF13A01

Population frequency distribution of HumF13A01, HumFXIIIB, and Hum-LIPOL loci in the Basque Country (Northern Spain) (Fernández-Fernández, I, Castro, A, Buján, M, Cuevas, N, García-Orad, A, and de Pancorbo, MM), Sept., 1083

#### **HUMTH01**

Northeast Italy population data using multiplex PCR (HUMCD4, HUMTH01, HUMTPOX, and HUMCSF1P0) loci (Turrina, S, De Leo, D, and Marigo, M), Nov., 1324

Parentage testing on blood crusts from firearms projectiles by DNA typing settles an insurance fraud case (Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Cardoso, LA, and Muñoz, DR), Sept., 1142

# HUMTPOX

Parentage testing on blood crusts from firearms projectiles by DNA typing settles an insurance fraud case (Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Cardoso, LA, and Muñoz, DR), Sept., 1142

## **HUMVWA31/A**

Phenotypic differences at the HUMvWA locus amplified with different STR kits (Allen, RW, Pritchard, J, Harmon, J, and Floyd, S), Sept., 1166

#### HVII

Detection of sequence variation in the HVII region of the human mitochondrial genome in 689 individuals using immobilized sequence-specific oligonucleotide probes (Reynolds, R, Walker, K, Varlaro, J, Allen, M, Clark, E, Alavaren, M, and Erlich, H), Nov., 1210

## Hydrocephalus

Hydrocephalus: a fatal late consequence of mumps encephalitis (González-Gil, J, Zarrabeitia, MT, Altuzarra, E, Sánchez-Molina, I, and Calvet, R), Jan., 204

## Hyperparathyroidism

Hyperparathyroidism and psychosis: possible prelude to murder (Bresler, SA, Logan WS, and Washington, D), May, 728

# Hypervariable region I

Sequence polymorphisms of the mitochondrial DNA control region in 100 German Caucasians (Baasner, A and Madea, B), Nov., 1343

#### Hypervariable region II

Sequence polymorphisms of the mitochondrial DNA control region in 100 German Caucasians (Baasner, A and Madea, B), Nov., 1343

1

## Identification

Interferences with semen detection by an immunoassay for a seminal vesicle-specific antigen (Chen, JT and Hortin, GL), Jan., 234

## Illicit drug identification

Normalization of residual ions after removal of the base peak in electron impact mass spectrometry (Steeves, JB, Gagné, HM, and Buel, E), July, 882

# Immobilized sequence-specific oligonucleotide probes

Detection of sequence variation in the HVII region of the human mitochondrial genome in 689 individuals using immobilized sequence-specific oligonucleotide probes (Reynolds, R, Walker, K, Varlaro, J, Allen, M, Clark, E, Alavaren, M, and Erlich, H), Nov., 1210

## Improvised explosive devices

Physical and chemical evidence remaining after the explosion of large improvised bombs. Part 2: firings of calcium ammomium nitrate/sugar mixtures (Cullum, H, Lowe, A, Marshall, M, and Hubbard, P), March, 333

Physical and chemical evidence remaining after the explosion of large improvised bombs. Part I: firings of ammonium nitrate/sugar and urea nitrate (Phillips, SA, Lowe, A, Marshall, M, Hubbard, P, Burmeister, SG, and Williams, DR), March, 324

## Indanediones

Evaluation of 1,2-indanedione and 5,6-dimethoxy-1,2-indanedione for the detection of latent fingerprints on porous surfaces (Roux, C, Jones, N, Lennard, C, and Stoilovic, M), July, 761

## Indiana

Allele frequencies for nine STR loci in African American and Caucasian populations from Marion County, Indiana, USA (Balamurugan, K, Budowle, B, and Tahir, MA), May, 744

# Inductively-coupled plasma mass spectrometry

Commentary on Keto RO. Analysis and comparison of bullet leads by inductively-coupled plasma mass spectrometry. J Forensic Sci 1999;44(5):1021–6 (Promish, DI), March, 507

#### **Industrial accident**

A review of crane deaths in Jefferson County, Alabama (Davis, GG and Brissie, RM), March, 392

## Infant

Sudden unexpected infant death due to fibroma of the heart (Meissner, C, Minnasch, P, Gafumbegete, E, Reiter, A, Gerling, I, and Oehmichen, M), May, 731

#### Infanticide

Petechiae of the baby's skin as differentiation symptom of infanticide versus SIDS (Oehmichen, M, Gerling, I, and Meiβner, C), May, 602

# Infrared spectroscopy

A new infrared spectral library of controlled and noncontrolled drug standards using internal reflection spectroscopy (Koulis, CV, Hymes, KJ, and Rawlins, JL), July, 876

## Inhalant abuse

The comparison of toluence determination between headspace-solid phase microextraction and headspace methods in gluesniffer's blood and urine samples (Kim, NY and Park, SW), May, 702

#### Insects

A DNA-based approach to the identification of insect species used for postmortem interval estimation. Partial sequencing of the cxydase b subunit gene I: a tool for the identification of European species of blow flies for postmortem interval estimation (Wells, JD and Sperling, FAH), Nov., 1358

## Insurance fraud

Parentage testing on blood crusts from firearms projectiles by DNA typing settles an insurance fraud case (Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Cardoso, LA, and Muñoz, DR), Sept., 1142

# Intent

Psychological factors in the determination of suicide in self-inflicted gunshot head wounds (Weinberger, LE, Sreenivasan, S, Gross, EA, Markowitz, E, and Gross, BH), July, 815

# Internal reflection spectroscopy

A new infrared spectral library of controlled and noncontrolled drug standards using internal reflection spectroscopy (Koulis, CV, Hymes, KJ, and Rawlins, JL), July, 876

# Internal standard

<sup>13</sup>C<sub>4</sub>-secobarbital as the internal standard for the quantitative determination of seco-

barbital—a critical evaluation (Chang, W-T, Lin, DL, Low, IA, and Liu, RH), May, 659

Commentary on Wu AHB, Hill DW, Crouch D, Hodnett CN, McCurdy HH. Minimal standards for the performance and interpretation of toxicology test in legal proceedings (Kidwell, DA and Smith, FP), Jan., 237

#### Internet

Hate crimes on the Internet (Deirmenjian, JM), Sept., 1020

#### Interviews

On the assessment of children in suspected child sexual abuse in light of Daubert and Frye: limitations of profiles and interviews as scientifically grounded evidence (Bigelow, BJ), May, 573

#### Intestinal obstruction

Heroin body packing: three fatal cases of intestinal perforation (Hutchins, KD, Pierre-Louis, PJ, Zaretski, L, Williams, AW, Lin, R-L, and Natarajan, GA), Jan., 42

## Intracranial injuries

A cause célèbre: the so-called "ballpoint murder" (Rompen, JC, Meek, MF, and van Andel, MV), Sept., 1144

## Ion chromatography

A fatal case of chlorate poisoning: confirmation by ion chromatography of body fluids (Eysseric, H, Vincent, F, Peoc'h, M, Marka, C, Aitken, Y, and Barret, L), March, 474

## Israeli

Commentary on Amar A, Brautbar C, Motro U, et al. Genetic variation of three tetrameric tandem repeats in four distinct Israeli ethnic groups. J Forensic Sci 1999;44(5):983–6 (Promish, DI), May, 747

J

## Japanese

Analysis of genotype frequencies and interlocus association for the PM, DQA1, and D1S80 loci in four populations (Klitz, W, Reynolds, R, Chen, J, and Erlich, HA), Sept., 1009

Sex differences in proximal humeral outline shape: elliptical fourier functions (Tanaka, H, Lestrel, PE, Uetake, T, Kato, S, and Ohtsuki, F), March, 292

#### Juvenile

The relationship between substance use, drug selling, and lethal violence in 25 juvenile murderers (McLaughlin, CR, Daniel, J, and Joost, TF), March, 349

K

#### Ketamine

Ketamine in non-hospital and hospital deaths in New York City (Gill, JR and Stajíc, M), May, 655

# Keyhole fracture

Keyhole defect production in tubular bone (Berryman, HE and Gunther, WM), March, 483

#### Klinefelter syndrome

Acute cerebellar hemorrhage in a patient with Klinefelter syndrome: XXY karyotype obtained postmortem from cells from pericardial fluid (Kominato, Y, Fujikura, T, Matsui, K, Hata, N, and Takizawa, H), Sept., 1148

#### **KTM**

A method for collection of gunshot residues from skin and other surfaces (Ståhling, S and Karlsson, T), Nov., 1299

L

## Lamotrigine

Postmortem investigation of lamotrigine concentrations (Pricone, MG, King, CV, Drummer, OH, Opeskin, K, and McIntyre, IM), Jan., 11

## Larynx

A triad of laryngeal hemorrhages in strangulation: a report of eight cases (Pollanen, MS), May, 614

#### Laser

Separation of visibly-excited fluorescent components in fingerprint residues by thinlayer chromatography (Jones, NE, Davies, LM, Brennan, JS, and Bramble, SK), Nov., 1286

## Latent fingerprint

Method for characterization of adhesion properties of trace explosives in fingerprints and fingerprint simulations (Phares, DJ, Holt, JK, Smedley, GT, and Flagan, RC), July, 774

## Latent fingerprints

Reagents for the chemical development of latent fingerprints: scope and limitations of benzo[f]ninhydrin in comparison to ninhydrin (Almog, J, Sears, VC, Springer, E, Hewlett, DF, Walker, S, Wiesner, S, Lidor, R, and Bahar, E), May, 538

Threat mail and forensic science: DNA profiling from items of evidence after treatment with DFO (Zamir, A, Oz, C, and Geller, B), March, 445

# LC-APCI-MS

Further commentary on: Wu AHB, Hill DW, Crouch D, Hodnett CN, McCurdy HH. Minimal standards for the performance and interpretation of toxicology tests in le-

gal proceedings. J Forensic Sci 1999;44(3): 516–522 and on the commentary of Kidwell DA, Smith FP. (Bogusz, MJ), Nov., 1359

#### LDLR

Analysis of genotype frequencies and interlocus association for the PM, DQA1, and D1S80 loci in four populations (Klitz, W, Reynolds, R, Chen, J, and Erlich, HA), Sept., 1009

Distribution of HLA-DQA1, polymarker, CSF1PO, vWA, TH01, TPOX, D16S539, D7S820, D13S317, and D5S818 alleles in East Bengali and West Punjabi populations from Indo-Pak Subcontinent (Tahir, MA, Herrera, RJ, Khan, AA, Kashyap, VK, Duncan, G, Barna, C, Budowle, B, Rowold, DJ, Amjad, M, and Sinha, S), Nov., 1320 HLA-DQA1 and polymarker locus allele frequencies for Elazig/Turkey (Dulger, HE and Tokdemir, M), July, 942

Mitochondrial DNA HVI and HVII variation in a North-East Spanish population (Martinez-Jarreta, B, Prades, A, Calafell, F, and Budowle, B), Sept., 1162

Usefulness of a toothbrush as a source of evidential DNA for typing (Tanaka, M, Yoshimoto, T, Nozawa, H, Ohtaki, H, Kato, Y, Sato, K, Yamamoto, T, Tamaki, K, and Katsumata, Y), May, 674

#### Lidocaine

Determining the state of the deceased during cardiopulmonary resuscitation from tissue distribution patterns of intubation-related lidocaine (Moriya, F and Hashimoto, Y), July, 846

# Liquid chromatography-electrospraymass spectrometry

A non-fatal case of intoxication with foxglove, documented by means of liquid chromatography-electrospray-mass spectrometry (Lacassie, E, Marquet, P, Martin-Dupont, S, Gaulier, JM, and Lachâtre, G), Sept., 1154

## Liquid residues

Analytical methods for ignitable liquid residues (Lentini, JJ), Nov., 1358

#### LOH

Loss of heterozygosity detected in a short tandem repeat (STR) locus commonly used for human DNA identification (Rubocki, RJ, Duffy, KJ, Shepard, KL, McCue, BJ, Shepard, SJ, and Wisecarver, JL), Sept., 1087

## Loss of heterozygosity

Loss of heterozygosity detected in a short tandem repeat (STR) locus commonly used for human DNA identification (Rubocki, RJ, Duffy, KJ, Shepard, KL, McCue, BJ, Shepard, SJ, and Wisecarver, JL), Sept., 1087

#### Low-voltage

Suicide by electrocution with low-voltage current (Marc, B, Baudry, F, Douceron, H,

Ghaith, A, Wepierre, JL, and Garnier, M), Jan., 216

#### LPL

Allele frequency distributions for twelve STR loci in a Brazilian population (Barros de Castro, IA, Rinzler, CMC, and Rumjanek, FD), July, 941

Population genetics of HPRTB, F13B, and LPL in Pernambuco, Northeast Brazil (Mauricio-da-Silva, L, Silva, RS, Dellalibera, E, and Donadi, EA), May, 684

## Lucilia illustris and Calliphora vicina

Minimum and maximum development rates of some forensically important Callphoridae (Diptera) (Anderson, GS), July, 824

#### Luminol

A novel approach to obtaining reliable PCR results from luminol treated bloodstains (Della Manna, A and Montpetit, S), July, 886

The presumptive reagent fluorescein for detection of dilute bloodstains and subsequent STR typing of recovered DNA (Budowle, B, Leggitt, JL, Defenbaugh, DA, Keys, KM, and Malkiewicz, SF), Sept., 1090

M

#### Mail bomb

The first mail bomb? (Burnett, B and Golubovs, P), July, 935

## Major depressive disorder

A case of Cotard's syndrome associated with self-starvation (Silva, JA, Leong, GB, Weinstock, R, and Gonzales, CL), Jan., 188

# Manufacturers of ECT stimulus generating devices

The state of electroconvulsive therapy in Texas. Part 2: Contact with physicians, hospitals, medical liability insurance companies, and manufacturers of stimulus generating equipment (Scarano, VR, Felthous, AR, and Early, TS), Nov., 1203

# Marijuana

Potency trends of  $\triangle^9$ -THC and other cannabinoids in confiscated marijuana from 1980–1997 (ElSohly, MA, Ross, SA, Mehmedic, Z, Arafat, R, Yi, B, and Banahan, BF), Jan., 24

# **Marion County**

Allele frequencies for nine STR loci in African American and Caucasian populations from Marion County, Indiana, USA (Balamurugan, K, Budowle, B, and Tahir, MA), May, 744

# Mass fatalities

Use of radiographic atlases in a mass fatality (Warren, MW, Smith, KR, Stubblefield, PR, Martin, SS, and Walsh-Haney, HA), March, 467

#### Mass murder

A cross-cultural review of sudden mass assault by a single individual in the oriental and occidental cultures (Hempel, AG, Levine, RE, Meloy, JR, and Westermeyer, J), May, 582

## Mass slayings

Time trends in a study of 440 mass slayings/rampages occurring in public places (Mooney, JJ and Orav, EJ), Sept., 1028

## Mass spectrometry

The effects of microwave irradiation on occluded solvents in illicitly produced cocaine hydrochloride (Morello, DR, Casale, JF, Stevenson, ML, and Klein, RFX), Sept., 1126

The petroleum-laced background (Lentini, JJ, Dolan, JA, and Cherry, C), Sept., 968

## Matrix metalloproteinase

Gelatinase A in human dentin as a new biochemical marker for age estimation (Martín-de las Heras, S, Valenzuela, A, and Overall, CM), July, 807

### **MDMA**

Authors' response (Crouch, DJ and Wu, AHB), Nov., 1360

## Mechanical fit

Physical match of fragmented bullets (Klein, A, Nedivi, L, and Silverwater, H), May, 722

# Medical insurance companies

The state of electroconvulsive therapy in Texas. Part 2: Contact with physicians, hospitals, medical liability insurance companies, and manufacturers of stimulus generating equipment (Scarano, VR, Felthous, AR, and Early, TS), Nov., 1203

## Medical license

Assessing the risk of recidivism in physicians with histories of sexual misconduct (Tillinghast, E and Cournos, F), Nov., 1184

## Memory

On the assessment of children in suspected child sexual abuse in light of Daubert and Frye: limitations of profiles and interviews as scientifically grounded evidence (Bigelow, BJ), May, 573

# Mental disorder

Stalking behavior in delusional jealousy (Silva, JA, Derecho, DV, Leong, GB, and Ferrari, MM), Jan., 77

#### Mental retardation

Characteristics of mentally retarded criminal offenders in Northern Taiwan (Su, KP, Yu, JM, Yang, TW, Tsai, SY, and Chen, CC), Nov., 1207

## Metal restoration

Restoration tactics for seriously corroded Cu and Cu-alloy firearms evidence (Randich, E, Fickies, TE, Tulleners, FA, Andresen, BD, and Grant, PM), Nov., 1316

## Metastatic calcification

Metastatic calcification of the cardiac conduction system with heart block: an underreported entity in chronic renal failure patients (Isotalo, PA, Halil, A, Green, M, Tang, A, Lach, B, and Veinot, JP), Nov., 1335

## Methamphetamine

Achiral and chiral quantification of methamphetamine and amphetamine in human urine by semi-micro column high-performance liquid chromatography and fluorescence detection (Al-Dirbashi, OY, Wada, M, Kuroda, N, Takahashi, M, and Nakashima, K), May, 708

# MGT

A method for collection of gunshot residues from skin and other surfaces (Ståhling, S and Karlsson, T), Nov., 1299

## Minimal standards

Commentary on Wu AHB, Hill DW, Crouch D, Hodnett CN, McCurdy HH. Minimal standards for the performance and interpretation of toxicology test in legal proceedings (Kidwell, DA and Smith, FP), Jan., 237

## Minimum allele frequency

World population data for the HLA-DQA1, PM® and D1S80 loci with least and most common profile frequencies for combinations of loci estimatted following NRC II guidelines (Peterson, BL, Su, B, Chakraborty, R, Budowle, B, and Gaensslen, RE), Jan., 118

#### Minimum standards

Author's response (Crouch, DJ and Wu, AHB), Jan., 238

# Mitochondrial DNA

A novel method for forensic DNA investigations: repeat-type sequence analysis of tandemly repeated mtDNA in domestic dogs (Savolainen, P, Arvestad, L, and Lundeberg, J), Sept., 990

Detection of sequence variation in the HVII region of the human mitochondrial genome in 689 individuals using immobilized sequence-specific oligonucleotide probes (Reynolds, R, Walker, K, Varlaro, J, Allen, M, Clark, E, Alavaren, M, and Erlich, H), Nov., 1210

Partial sequencing of the cytochrome oxydase b subunit gene I: a tool for the identification of European species of blow flies for postmortem interval estimation (Vincent, S, Vian, JM, and Carlotti, MP), July, 820 Sequence polymorphisms of the mitochondrial DNA control region in 100 German

## Molecular biology

Nov., 1343

ABC response (Selavka, CM), May, 750 Commentary on the American Board of Criminalistics (ABC) Certification Process (Adamo, R, Chany, C, Drummond, F,

Caucasians (Baasner, A and Madea, B),

Hung, SM, Pool, T, Quarino, L, Ristenbatt, III, RR, and Pietro, DS), May, 749

## Morphine

Postmortem redistribution of morphine and its metabolites (Gerostamoulos, J and Drummer, OH), July, 843

#### **MSPM**

A method for collection of gunshot residues from skin and other surfaces (Ståhling, S and Karlsson, T), Nov., 1299

## Mule

Heroin body packing: three fatal cases of intestinal perforation (Hutchins, KD, Pierre-Louis, PJ, Zaretski, L, Williams, AW, Lin, R-L, and Natarajan, GA), Jan.,

## Multiplex

Fingerprint enhancement revisited and the effects of blood enhancement chemicals on subsequent Profiler Plus<sup>TM</sup> fluorescent short tandem repeat DNA analysis of fresh and aged bloody fingerprints (Frégeau, CJ, Germain, O, and Fourney, RM), March, 354

#### Mummification

Obtaining fingerprints from mummified fingers: a method for tissue rehydration adapted from the archeological literature (Schmidt, CW, Nawrocki, SP, Williamson, MA, and Marlin, DC), July, 874

## Murder

Anger experience, styles of anger expression, sadistic personality disorder, and psychopathy in juvenile sexual homicide offenders (Myers, WC and Monaco, L), May, 698

N

# Nail polish

Secondary ion mass spectrometric characterization of nail polishes and paint surfaces (Gresham, GL, Groenewold, GS, Bauer, WF, and Ingram, JC), March, 310

## Nanoparticle

Photoluminescent semiconductor nanocrystals for fingerprint detection (Menzel, ER, Savoy, SM, Ulvick, SJ, Cheng, KH, Murdock, RH, and Sudduth, MR), May, 545

# Native American Graves Protection and Repatriation Act

The postmortem fate of Pat Gregory: a disinterred Native American (Murad, TA and Murad, TD), March, 488

## Nicotiana glauca

Fatal poisoning from nicotiana glauca leaves: identification of anabasine by gaschromatography/mass spectrometry (Mizrachi, N, Levy, S, and Goren, Z), May, 736

# Nineteenth century

The first mail bomb? (Burnett, B and Golubovs, P), July, 935

## Ninhydrin

Chemical development of latent fingerprints: computational design of ninhydrin analogues (Elber, R, Frank, A, and Almog, J), July, 757

# Ninhydrin analogues

Chemical development of latent fingerprints: computational design of ninhydrin analogues (Elber, R, Frank, A, and Almog, J), July, 757

#### Non-insane automatism

Diagnostic values of polysomnography in forensic medicine (Kayumov, L, Pandi-Perumal, SR, Fedoroff, P, and Shapiro, CM), Jan., 191

## Norcocaine

Regional distribution of cocaine in postmortem brain of chronic human cocaine users (Kalasinsky, KS, Bosy, TZ, Schmunk, GA, Ang, L, Adams, VI, Gore, SB, Smialek, J, Furukawa, Y, Guttman, M, and Kish, SJ), Sept., 1041

## Nuclear magnetic resonance

Identification of heroin in street doses using 1D-TOCSY nuclear magnetic resonance (Suryaprakash, N, Azoury, M, Goren, Z, and Jelinek, R), Sept., 963

o

## Objective criteria

Consecutive matching striation criteria: a general critique (Bunch, SG), Sept., 955

## Obsessional following

A descriptive study of child and adolescent obsessional followers (McCann, JT), Jan., 195

## **Olanzapine**

Olanzapine concentrations in clinical serum and postmortem blood specimens—when does therapeutic become toxic (Robertson, MD and McMullin, MM), March, 418

# Optical absorption

Chemical development of latent fingerprints: computational design of ninhydrin analogues (Elber, R, Frank, A, and Almog, J), July, 757

P

### P 84

A sandwich enzyme-linked immunosorbent assay for ABO blood typing of semen by using anti-p 84 monoclonal antibody as a marker of blood group substance in semen (Sato, I, Nakamura, A, Ujiie, K, Yukawa, N, and Nakajima, Y), July, 795

#### **Paints**

Secondary ion mass spectrometric characterization of nail polishes and paint surfaces (Gresham, GL, Groenewold, GS, Bauer, WF, and Ingram, JC), March, 310

## Paraffin-embedded fetal tissue

Paternity-testing on paraffin-embedded abortion tissue: preparation of fetal cells may be indispensable (Zehner, R and Lasczkowski, G), Nov., 1332

## Parentage testing

Parentage testing on blood crusts from firearms projectiles by DNA typing settles an insurance fraud case (Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Cardoso, LA, and Muñoz, DR), Sept., 1142

Paternity-testing on paraffin-embedded abortion tissue: preparation of fetal cells may be indispensable (Zehner, R and Lasczkowski, G), Nov., 1332

## Particle adhesion

Method for characterization of adhesion properties of trace explosives in fingerprints and fingerprint simulations (Phares, DJ, Holt, JK, Smedley, GT, and Flagan, RC), July, 774

## **Paternity**

Population studies and validation of paternity determination by six microsatellite loci (Ingvarsson, S, Finnsdottir, V, Sigurdsson, A, and Geirsson, G), May, 692

Sequence variation of new alleles at the short tandem repeat D19S253 locus (Brito, RM, Ribeiro, T, Viriato, L, Vieira-Silva, C, Espinheira, R, Pinto-Ribeiro, I, and Geada, H), July, 932

## Paternity testing

Development of the X-linked tetrameric microsatellite marker DXS9898 for forensic purposes (Hering, S and Szibor, R), July, 929

Superfecundation and dual paternity in a twin pregnancy ending with placental abruption (Ambach, E, Parson, W, and Brezinka, C), Jan., 181

## PEG tubes

Complications following insertion and replacement of percutaneous endoscopic gastrostomy (PEG) tubes (Platt, MS and Roe, DC), July, 833

Erratum/correction of Platt MS, Roe DC. Complications following insertion and replacement of percutaneous endoscopic gastrostomy (PEG) tubes. J Forensic Sci 2000;45(4):833–835 (Platt, MS and Roe, DC), Sept., 1179

# Periadventitial hemorrhage

Periadventitial extracranial vertebral artery hemorrhage in a case of Shaken Baby Syndrome (Gleckman, AM, Kessler, SC, and Smith, TW), Sept., 1151

#### Petechiae

Asphyxial deaths and petechiae: a review (Ely, SF and Hirsch, CS), Nov., 1274

Petechiae of the baby's skin as differentiation symptom of infanticide versus SIDS (Oehmichen, M, Gerling, I, and Meißner, C), May, 602

## Phaenicia sericata

Minimum and maximum development rates of some forensically important Callphoridae (Diptera) (Anderson, GS), July, 824

## Phase analysis

Age estimation from sternal ends of ribs by phase analysis in South African Blacks (Oettlé, AC and Steyn, M), Sept., 1071

## Phenotypic differences

Phenotypic differences at the HUMvWA locus amplified with different STR kits (Allen, RW, Pritchard, J, Harmon, J, and Floyd, S), Sept., 1166

### Phormia regina

Minimum and maximum development rates of some forensically important Callphoridae (Diptera) (Anderson, GS), July, 824

## Photogrammetry

Sex differences in proximal humeral outline shape: elliptical fourier functions (Tanaka, H, Lestrel, PE, Uetake, T, Kato, S, and Ohtsuki, F), March, 292

## **Photography**

Determining the time and day of photography (Levi, JA, Novoselsky, Y, Levin, N, and Volkov, N), Jan., 153

# Photoluminescence

Diimide-enhanced fingerprint detection with photoluminescent CdS/dendrimer nanocomposites (Bouldin, KK, Menzel, ER, Takatsu, M, and Murdock, RH), Nov., 1239

Photoluminescent CdS/Dendrimer nanocomposites for fingerprint detection (Menzel, ER, Takatsu, M, Murdock, RH, Bouldin, K, and Cheng, KH), July, 770

Photoluminescent semiconductor nanocrystals for fingerprint detection (Menzel, ER, Savoy, SM, Ulvick, SJ, Cheng, KH, Murdock, RH, and Sudduth, MR), May, 545

# Phycology

Algal colonization of submerged carcasses in a mid-order woodland stream (Casamatta, DA and Verb, RG), Nov., 1280

## Physical anthropology

Age estimation from sternal ends of ribs by phase analysis in South African Blacks (Oettlé, AC and Steyn, M), Sept., 1071 Skeletal manifestations of bear scavenging (Carson, EA, Stefan, VH, and Powell, JF), May, 515

# Physical fit

Physical match of fragmented bullets (Klein, A, Nedivi, L, and Silverwater, H), May, 722

#### Physical match

Physical match of fragmented bullets (Klein, A, Nedivi, L, and Silverwater, H), May, 722

## **Physicians**

The state of electroconvulsive therapy in Texas. Part 2: Contact with physicians, hospitals, medical liability insurance companies, and manufacturers of stimulus generating equipment (Scarano, VR, Felthous, AR, and Early, TS), Nov., 1203

## Plastic bags

Suffocation using plastic bags: a retrospective study of suicides in Ontario, Canada (Bullock, MJ and Diniz, D), May, 608

#### **Poisoning**

Fatal poisoning from nicotiana glauca leaves: identification of anabasine by gaschromatography/mass spectrometry (Mizrachi, N, Levy, S, and Goren, Z), May, 736 Unusual cases of suicide among health care workers (Budakov, BM, Simic, MA, Tasic, MM, and Vujic, DN), July, 923

## Police-assisted suicide

Clinical and forensic indicators of "suicide by cop" (Mohandie, K and Meloy, JR), March, 384

# Polydactyle

Acute cerebellar hemorrhage in a patient with Klinefelter syndrome: XXY karyotype obtained postmortem from cells from pericardial fluid (Kominato, Y, Fujikura, T, Matsui, K, Hata, N, and Takizawa, H), Sept., 1148

## Polymarker

The Slovenian population data on the PCR based loci HLA-DQA1, LDLR, GYPA, HBGG, D7S8, GC, and D1S80 (Drobnic, K, Regent, A, and Budowle, B), May, 689

#### Polymer backing

Analysis of pressure sensitive adhesive tape: I. Evaluation of infrared ATR accessory advances (Merrill, RA and Bartick, EG), Jan., 93

## Polymerase chain reaction

A novel approach to obtaining reliable PCR results from luminol treated bloodstains (Della Manna, A and Montpetit, S), July, 886

## Polymerase chain reaction (PCR)

A systematic and quantitative analysis for PCR template contamination (Urban, C, Gruber, F, Kundi, M, Falkner, FG, Dorner, F, and Hämmerle, T), Nov., 1307

Allele frequencies for nine STR loci in African American and Caucasian populations from Marion County, Indiana, USA (Balamurugan, K, Budowle, B, and Tahir, MA), May, 744

Allele frequencies for the COFILER™ STR loci in the Canadian and Canadian First nations populations. (Borys, S, Van-

stone, H, Carmody, G, and Fourney, R), July, 945

Allele frequencies for the COFILER<sup>TM</sup> STR loci in the Canadian caucasian and Canadian First nations populations (Borys, S, Vanstone, H, Carmody, G, and Fourney, R), July, 947

An evaluation of the relevance of routine DNA typing of fingernail clippings for forensic casework (Oz, C and Zamir, A), Jan., 158

Distribution of D1S80 and HLA-DQA1 alleles in a southern Italian population sample (Di Nunno, N, Baldassarra, SL, Carbonara, M, Viola, L, Mangiatordi, S, and Di Nunno, C), July, 944

Distribution of HumvWA31, HumFESFPS, HumTH01, Hum TPOX, HumCD4, HumCSF1PO alleles in a southern Italian population sample (Di Nunno, N, Baldassarra, SL, Carbonara, M, Guanti, G, Resta, N, Viola, L, and Di Nunno, C), July, 943

DNA typing of samples for polymarker, DQA1, and nine STR loci from a human body exhumed after 27 years (Tahir, MA, Balraj, E, Luke, L, Gilbert, T, Hamby, JE, and Amjad, M), July, 902

Fingerprint enhancement revisited and the effects of blood enhancement chemicals on subsequent Profiler Plus™ fluorescent short tandem repeat DNA analysis of fresh and aged bloody fingerprints (Frégeau, CJ, Germain, O, and Fourney, RM), March, 354

Fingerprints and DNA: STR typing of DNA extracted from adhesive tape after processing for fingerprints (Zamir, A, Springger, E, and Glattstein, B), May, 687

Gene frequencies for six STR loci in a Chilean population of mixed ancestry (Figueroa, CC, Acuña, M, and Cifuentes, L), May, 742

Han Chinese population data in Chongqing China for nine STR loci (Wan, LH, Cao, Y, Xiu, CX, and Liu, C), March, 504

Loss of heterozygosity detected in a short tandem repeat (STR) locus commonly used for human DNA identification (Rubocki, RJ, Duffy, KJ, Shepard, KL, McCue, BJ, Shepard, SJ, and Wisecarver, JL), Sept., 1087

Parentage testing on blood crusts from firearms projectiles by DNA typing settles an insurance fraud case (Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Cardoso, LA, and Muñoz, DR), Sept., 1142

Population frequency for the short tandem repeat loci D18S849, D3S1744, and D12S1090 in Caucasian-Mestizo and African descent populations of Colombia (Yunis, JJ, Garcia, O, Baena, A, Arboleda, G, Uriarte, I, and Yunis, E), March, 429 Population studies and validation of paternity determination by six microsatellite loci (Ingvarsson, S, Finnsdottir, V, Sigurdsson,

The analysis of three short tandem repeat (STR) loci in the Slovene population by

A, and Geirsson, G), May, 692

multiplex PCR (Drobnic, K and Budowle, B), July, 893

Usefulness of a toothbrush as a source of evidential DNA for typing (Tanaka, M, Yoshimoto, T, Nozawa, H, Ohtaki, H, Kato, Y, Sato, K, Yamamoto, T, Tamaki, K, and Katsumata, Y), May, 674

## Polymerism chain reaction

Allele frquencies for the CODIS core STR loci in Connecticut populations (Scherczinger, CA, Hintz, JL, Peck, BJ, Adamowicz, MS, Bourke, MT, Coyle, HM, Ladd, C, Yang, NCS, Budowle, B, and Lee, HC), July, 938

# Polymorphism

Gene frequencies for four hypervariable DNA loci in a Chilean population of mixed ancestry (Acuña, M, Jorquera, H, Armanet, L, and Cifuentes, L), Sept., 1160

## **Polysomnography**

Author's response (Shapiro, CM, Kayumov, L, and Fedoroff, JP), Sept., 1164 Commentary on Kayumov L, Pandi-Perumal SR, Federoff P, Shapiro CM. Diagnostic values of polysomnograph in a forensic medicine. J Forensic Sci 2000 Jan;45(1): 191–4 (Schenck, CH and Mahowald, MW), Sept., 1164

Diagnostic values of polysomnography in forensic medicine (Kayumov, L, Pandi-Perumal, SR, Fedoroff, P, and Shapiro, CM), Jan., 191

# Population data

World population data for the HLA-DQA1, PM® and D1S80 loci with least and most common profile frequencies for combinations of loci estimatted following NRC II guidelines (Peterson, BL, Su, B, Chakraborty, R, Budowle, B, and Gaensslen, RE), Jan., 118

## Population databases

The Slovenian population data on the PCR based loci HLA-DQA1, LDLR, GYPA, HBGG, D7S8, GC, and D1S80 (Drobnic, K, Regent, A, and Budowle, B), May, 689

# Population genetics

Allele and genotype frequencies for D1S80 and 3'APOB in Recanati, Central Italy (Biondolillo, M, Mamolini, E, Manni, F, Scapoli, C, Lorenzetti, L, and Barrai, I), Sept., 1080

Allele and genotype frequencies for D1S80 locus in a Brazilian population sample (Soares-Vieira, JA, Billerbeck, AEC, Iwamura, ESM, Munoz, DR, and Otto, PA), May, 696

Allele frequencies for nine STR loci in African American and Caucasian populations from Marion County, Indiana, USA (Balamurugan, K, Budowle, B, and Tahir, MA), May, 744

Allele frequencies for the COFILER<sup>TM</sup> STR loci in the Canadian and Canadian First nations populations. (Borys, S, Van-

stone, H, Carmody, G, and Fourney, R), July, 945

Allele frequencies for the COFILER<sup>TM</sup> STR loci in the Canadian caucasian and Canadian First nations populations (Borys, S, Vanstone, H, Carmody, G, and Fourney, R), July, 947

Allele frequency distributions for three STR loci in the Han and Thai populations (Huang, DX, Zhang, L, and Wu, MY), Nov., 1352

Allele frequency distributions for twelve STR loci in a Brazilian population (Barros de Castro, IA, Rinzler, CMC, and Rumjanek, FD), July, 941

Allele frquencies for the CODIS core STR loci in Connecticut populations (Scherczinger, CA, Hintz, JL, Peck, BJ, Adamowicz, MS, Bourke, MT, Coyle, HM, Ladd, C, Yang, NCS, Budowle, B, and Lee, HC), July, 938

Allelic distribution of four tetranucleotide repeat loci (D3S1358, D18S51, D19S253, and FGA) in a population from Porto (North Portugal) (Pinheiro, F, Pontes, L, da Costa, JP, Huguet, E, Moreno, P, and Gené, M), July, 891

Allelic frequencies for the HLA-DQA1, D1S80, HUMTHO1, HUMTPOX, HUM-CSF1PO and HUMVWA loci in Cantabria (middle north Spain) (Sánchez-Molina, I and Calvet, R), Jan., 167

Analysis of genotype frequencies and interlocus association for the PM, DQA1, and D1S80 loci in four populations (Klitz, W, Reynolds, R, Chen, J, and Erlich, HA), Sept., 1009

Distribution of D1S80 and HLA-DQA1 alleles in a southern Italian population sample (Di Nunno, N, Baldassarra, SL, Carbonara, M, Viola, L, Mangiatordi, S, and Di Nunno, C), July, 944

Distribution of HLA-DQA1 and amplitype PM locus alleles in a Saudi Arabian population sample (Tahir, MA, Sinha, S, Rogers, C, Tahir, U, Balamurugan, K, Al-Kubaidan, NA, and Amjad, M), Jan., 236

Distribution of HLA-DQA1, polymarker, CSF1PO, vWA, TH01, TPOX, D16S539, D7S820, D13S317, and D5S818 alleles in East Bengali and West Punjabi populations from Indo-Pak Subcontinent (Tahir, MA, Herrera, RJ, Khan, AA, Kashyap, VK, Duncan, G, Barna, C, Budowle, B, Rowold, DJ, Amjad, M, and Sinha, S), Nov., 1320 Distribution of HumvWA31, HumFESFPS, HumTH01, Hum TPOX, HumCD4, HumCSF1PO alleles in a southern Italian population sample (Di Nunno, N, Baldassarra, SL, Carbonara, M, Guanti, G, Resta, N, Viola, L, and Di Nunno, C), July, 943

Distriution of amplified fragment length polymorphism D1S80 alleles in a Saudi Arabian population (Tahir, MA, Sinha, SK, A-AL-Kubaidan, N, Thair, UA, Budowle, B, and Amjad, M), Sept., 1159

Gene frequencies for four hypervariable DNA loci in a Chilean population of mixed

ancestry (Acuña, M, Jorquera, H, Armanet, L, and Cifuentes, L), Sept., 1160

Gene frequencies for six STR loci in a Chilean population of mixed ancestry (Figueroa, CC, Acuña, M, and Cifuentes, L), May, 742

Han Chinese population data in Chongqing China for nine STR loci (Wan, LH, Cao, Y, Xiu, CX, and Liu, C), March, 504

HLA-DQA1 and polymarker locus allele frequencies for Elazig/Turkey (Dulger, HE and Tokdemir, M), July, 942

Mitochondrial DNA HVI and HVII variation in a North-East Spanish population (Martinez-Jarreta, B, Prades, A, Calafell, F, and Budowle, B), Sept., 1162

Northeast Italy population data using multiplex PCR (HUMCD4, HUMTH01, HUMTPOX, and HUMCSF1P0) loci (Turrina, S, De Leo, D, and Marigo, M), Nov., 1324

Population genetics of nine STR loci in two populations from Brazil (Corte-Real, F, Andrade, L, Anjos, MJ, Carvalho, M, Vieira, DN, Carracedo, A, and Vide, MC), March, 432

The distribution of D1S80 and vWA alleles in a Karen population from Northern Thailand (Steger, HF, Bhoopat, T, Sridoungkaew, S, and Sanguansermsri, T), March, 440

World population data for the HLA-DQA1, PM® and D1S80 loci with least and most common profile frequencies for combinations of loci estimatted following NRC II guidelines (Peterson, BL, Su, B, Chakraborty, R, Budowle, B, and Gaensslen, RE), Jan., 118

# Porous surfaces

Evaluation of 1,2-indanedione and 5,6-dimethoxy-1,2-indanedione for the detection of latent fingerprints on porous surfaces (Roux, C, Jones, N, Lennard, C, and Stoilovic, M), July, 761

## Portugal

Allelic distribution of four tetranucleotide repeat loci (D3S1358, D18S51, D19S253, and FGA) in a population from Porto (North Portugal) (Pinheiro, F, Pontes, L, da Costa, JP, Huguet, E, Moreno, P, and Gené, M), July, 891

#### Post-explosion debris

Optimization of solid-phase microextraction (SPME) for the recovery of explosives from aqueous and post-explosion debris followed by gas and liquid chromatographic analysis (Furton, KG, Wu, L, and Almirall, JR), July, 857

## Postmortem interval

Comparison of patterns of decomposition in a hanging carcass in contact with soil in a xerophytic habitat on the Island of Oahu, Hawaii (Shalaby, OA, deCarvalho, LML, and Goff, ML), Nov., 1267

Partial sequencing of the cytochrome oxydase b subunit gene I: a tool for the identifi-

cation of European species of blow flies for postmortem interval estimation (Vincent, S, Vian, JM, and Carlotti, MP), July, 820 Spectroscopic determination of skin viability. A predictor of postmortem interval (Doukas, AG, Bamberg, M, Gillies, R, Evans, R, and Kollias, N), Jan., 36

## Postmortem karyotyping

Acute cerebellar hemorrhage in a patient with Klinefelter syndrome: XXY karyotype obtained postmortem from cells from pericardial fluid (Kominato, Y, Fujikura, T, Matsui, K, Hata, N, and Takizawa, H), Sept., 1148

## Postmortem radiography

Radiography of perforating centerfire rifle wounds of the trunk (Straathof, D, Bannach, BG, Wilson, AJ, and Dowling, GP), May, 597

## Postmortem redistribution

Postmortem redistribution of morphine and its metabolites (Gerostamoulos, J and Drummer, OH), July, 843

## Pressure on the neck

A triad of laryngeal hemorrhages in strangulation: a report of eight cases (Pollanen, MS), May, 614

## **Prison hospital**

Clinical and demographic characteristics of elderly offencers at a maximum-security forensic hospital (Rayel, MG), Nov., 1193

## Proficiency-testing program

The FAA's postmortem forensic toxicology self-evaluated proficiency test program: the first seven years (Chaturvedi, AK), March, 422

## **Propeller**

Motorboat propeller injuries (Di Nunno, N and Di Nunno, C), July, 917

# Pseudoephedrine

Formation of an interfering substance, 3, 4-dimethyl-5-phenyl-1, 3-oxazolidine, during a pseudoephedrine urinalysis (Lewis, RJ, Huffine, EF, Chaturvedi, AK, Canfield, DV, and Mattson, J), July, 898

# **Psilocybin**

Detecting psychoactive drugs in the developmental stages of mushrooms (Gross, ST), May, 527

#### Psilocyn

Detecting psychoactive drugs in the developmental stages of mushrooms (Gross, ST), May, 527

## **Psychiatric**

Clinical and demographic characteristics of elderly offencers at a maximum-security forensic hospital (Rayel, MG), Nov., 1193

## Psychiatry

Stalking behavior in delusional jealousy (Silva, JA, Derecho, DV, Leong, GB, and Ferrari, MM), Jan., 77

## Psychological autopsy

Psychological factors in the determination of suicide in self-inflicted gunshot head wounds (Weinberger, LE, Sreenivasan, S, Gross, EA, Markowitz, E, and Gross, BH), July, 815

## **Psychosis**

Hyperparathyroidism and psychosis: possible prelude to murder (Bresler, SA, Logan WS, and Washington, D), May, 728 Stalking behavior in delusional jealousy (Silva, JA, Derecho, DV, Leong, GB, and Ferrari, MM), Jan., 77

#### Puparia

Partial sequencing of the cytochrome oxydase b subunit gene I: a tool for the identification of European species of blow flies for postmortem interval estimation (Vincent, S, Vian, JM, and Carlotti, MP), July, 820

## Q

## Quality assurance

The FAA's postmortem forensic toxicology self-evaluated proficiency test program: the first seven years (Chaturvedi, AK), March, 422

## Quality control

The FAA's postmortem forensic toxicology self-evaluated proficiency test program: the first seven years (Chaturvedi, AK), March, 422

## **Quantum dot**

Photoluminescent semiconductor nanocrystals for fingerprint detection (Menzel, ER, Savoy, SM, Ulvick, SJ, Cheng, KH, Murdock, RH, and Sudduth, MR), May, 545

## **Questioned documents**

A study on the use of photopolymer reflex plate in the forgery of Chinese seals (Cheng, KC, Cheng, N, and Wei, YC), Sept., 1062

## R

## Radiographic atlas

Use of radiographic atlases in a mass fatality (Warren, MW, Smith, KR, Stubblefield, PR, Martin, SS, and Walsh-Haney, HA), March, 467

# Rampages

Time trends in a study of 440 mass slayings/rampages occurring in public places (Mooney, JJ and Orav, EJ), Sept., 1028

## Recently released prisoners

Drug-related deaths among recently released prisoners in the Strathclyde Region of Scotland (Seymour, A, Oliver, JS, and Black, M), May, 649

#### Recidivism

Assessing the risk of recidivism in physicians with histories of sexual misconduct (Tillinghast, E and Cournos, F), Nov., 1184

## REMEDI HS

Screening of amphetamine/methamphetamine and their derivatives in urine using FPIA and Triage<sup>TM</sup><sub>8</sub> and the scope and limits of a subsequent identification by means of the REMNEDi<sup>TM</sup> HS system (Felscher, D and Schulz, K), Nov., 1327

## Renal failure

Metastatic calcification of the cardiac conduction system with heart block: an underreported entity in chronic renal failure patients (Isotalo, PA, Halil, A, Green, M, Tang, A, Lach, B, and Veinot, JP), Nov., 1335

## Residues

Method for characterization of adhesion properties of trace explosives in fingerprints and fingerprint simulations (Phares, DJ, Holt, JK, Smedley, GT, and Flagan, RC), July, 774

#### Rhomboid fossa

The rhomboid fossa of the clavicle as a sex and age estimator (Rogers, NL, Flournoy, LE, and McCormick, WF), Jan., 61

#### Ribs

Age estimation from sternal ends of ribs by phase analysis in South African Blacks (Oettlé, AC and Steyn, M), Sept., 1071

# Rohypnol®

Analysis of biofluids for flunitrazepam and metabolites by electrospray liquid chromatography/mass spectrometry (LeBeau, MA, Montgomery, MA, Wagner, JR, and Miller, ML), Sept., 1133

## Ruhemann's purple

Chemical development of latent fingerprints: computational design of ninhydrin analogues (Elber, R, Frank, A, and Almog, J), July, 757

## Running over

Neck injuries caused by being run over by a motor vehicle (Maxeiner, H, Ehrlich, E, and Schyma, C), Jan., 31

## $\mathbf{S}$

## Saliva

DNA extraction from stamps and envelope flaps using QIAamp and QIAshredder (Sinclair, K and McKechnie, VM), Jan., 229

## Scanning electron microscopy

Rapid search and quantitative analysis of gunshot residue particles in the SEM (Lebiedzik, J and Johnson, DL), Jan., 83 Scanning electron microscopic analysis of skin resolution as an aid in identifying trauma in forensic investigations (Rawson, RB, Starich, GH, and Rawson, RD), Sept., 1023

## Scanning laser imaging

A scanning beam time-resolved imaging system for fingerprint detection (Roorda, RD, Ribes, AC, Damaskinos, S, Dixon, AE, and Menzel, ER), May, 563

# Selective serotonin reuptake inhibitors

Postmortem forensic toxicology of selective serotonin reuptake inhibitors: a review of pharmacology and report of 168 cases (Goeringer, KE, Raymon, L, Christian, GD, and Logan, BK), May, 633

# Self-destructive behavior

A case of Cotard's syndrome associated with self-starvation (Silva, JA, Leong, GB, Weinstock, R, and Gonzales, CL), Jan., 188

#### Self-report

Hair analysis: self-reported use of "Speed" and "Ecstasy" compared with laboratory findings (Cooper, GA, Allen, DL, Scott, KS, Oliver, JS, Ditton, J, and Smith, I), March, 400

#### Self-starvation

A case of Cotard's syndrome associated with self-starvation (Silva, JA, Leong, GB, Weinstock, R, and Gonzales, CL), Jan., 188

#### Semen

A sandwich enzyme-linked immunosorbent assay for ABO blood typing of semen by using anti-p 84 monoclonal antibody as a marker of blood group substance in semen (Sato, I, Nakamura, A, Ujiie, K, Yukawa, N, and Nakajima, Y), July, 795

Interferences with semen detection by an immunoassay for a seminal vesicle-specific antigen (Chen, JT and Hortin, GL), Jan., 234

## Semi-micro column

Achiral and chiral quantification of methamphetamine and amphetamine in human urine by semi-micro column high-performance liquid chromatography and fluorescence detection (Al-Dirbashi, OY, Wada, M, Kuroda, N, Takahashi, M, and Nakashima, K), May, 708

## Semiconductor nanocrystal

Photoluminescent CdS/Dendrimer nanocomposites for fingerprint detection (Menzel, ER, Takatsu, M, Murdock, RH, Bouldin, K, and Cheng, KH), July, 770

Photoluminescent semiconductor nanocrystals for fingerprint detection (Menzel, ER, Savoy, SM, Ulvick, SJ, Cheng, KH, Murdock, RH, and Sudduth, MR), May, 545

# Seminal vesicles

Interferences with semen detection by an immunoassay for a seminal vesicle-specific antigen (Chen, JT and Hortin, GL), Jan., 234

#### Sequencer

Fingerprint enhancement revisited and the effects of blood enhancement chemicals on subsequent Profiler Plus<sup>TM</sup> fluorescent short tandem repeat DNA analysis of fresh and aged bloody fingerprints (Frégeau, CJ, Germain, O, and Fourney, RM), March, 354

#### Serial murder

Signature murders: a report of the 1984 Cranbrook, British Columbia Cases (Keppel, RD), March, 500

## Sex estimation

The rhomboid fossa of the clavicle as a sex and age estimator (Rogers, NL, Flournoy, LE, and McCormick, WF), Jan., 61

#### Sex-typing

A rare mutation in the amelogenin gene and its potential investigative ramifications (Roffey, PE, Eckhoff, CI, and Kuhl, JL), Sept., 1016

## Sexual assault

Analysis of biofluids for flunitrazepam and metabolites by electrospray liquid chromatography/mass spectrometry (LeBeau, MA, Montgomery, MA, Wagner, JR, and Miller, ML), Sept., 1133

## Sexual homicide

Anger experience, styles of anger expression, sadistic personality disorder, and psychopathy in juvenile sexual homicide offenders (Myers, WC and Monaco, L), May, 698

## Sexual misconduct

Assessing the risk of recidivism in physicians with histories of sexual misconduct (Tillinghast, E and Cournos, F), Nov., 1184

# Sexual offenders

Elderly sexual offenders admitted to a maximum-security forensic hospital (Rayel, MC), Nov., 1190

#### Shadow

Determining the time and day of photography (Levi, JA, Novoselsky, Y, Levin, N, and Volkov, N), Jan., 153

# Shaken baby syndrome

Periadventitial extracranial vertebral artery hemorrhage in a case of Shaken Baby Syndrome (Gleckman, AM, Kessler, SC, and Smith, TW), Sept., 1151

## Shooting distance

A method for collection of gunshot residues from skin and other surfaces (Ståhling, S and Karlsson, T), Nov., 1299

Improved method for shooting distance determination. Part 2—bullet holes in objects that canot be processed in the laboratory (Glattstein, B, Zeichner, A, Vinokurov, A, and Shoshani, E), Sept., 1000

Improved method for shooting distance estimation. Part 1. Bullet holes in clothing

items (Glattstein, B, Vinokurov, A, Levin, N, and Zeichner, A), July, 801

Improved method for shooting distance estimation. Part III. Bullet holes in cadavers (Glattstein, B, Zeichner, A, Vinokurov, A, Levin, N, Kugel, C, and Hiss, J), Nov., 1243

# **Shooting spree**

Time trends in a study of 440 mass slayings/rampages occurring in public places (Mooney, JJ and Oray, EJ), Sept., 1028

## Short tandem repeat

A novel approach to obtaining reliable PCR results from luminol treated bloodstains (Della Manna, A and Montpetit, S), July, 886

Development of the X-linked tetrameric microsatellite marker DXS9898 for forensic purposes (Hering, S and Szibor, R), July, 929

Distribution of D1S80 and HLA-DQA1 alleles in a southern Italian population sample (Di Nunno, N, Baldassarra, SL, Carbonara, M, Viola, L, Mangiatordi, S, and Di Nunno, C), July, 944

DNA typing of samples for polymarker, DQA1, and nine STR loci from a human body exhumed after 27 years (Tahir, MA, Balraj, E, Luke, L, Gilbert, T, Hamby, JE, and Amjad, M), July, 902

Sequence variation of new alleles at the short tandem repeat D19S253 locus (Brito, RM, Ribeiro, T, Viriato, L, Vieira-Silva, C, Espinheira, R, Pinto-Ribeiro, I, and Geada, H), July, 932

# Short tandem repeats

Allele frequencies for nine STR loci in African American and Caucasian populations from Marion County, Indiana, USA (Balamurugan, K, Budowle, B, and Tahir, MA), May, 744

Allele frequencies for the COFILER<sup>TM</sup> STR loci in the Canadian and Canadian First nations populations. (Borys, S, Vanstone, H, Carmody, G, and Fourney, R), July, 945

Allele frequencies for the COFILER<sup>TM</sup> STR loci in the Canadian caucasian and Canadian First nations populations (Borys, S, Vanstone, H, Carmody, G, and Fourney, R), July, 947

Allele frequency distributions for twelve STR loci in a Brazilian population (Barros de Castro, IA, Rinzler, CMC, and Rumjanek, FD), July, 941

Allelic distribution for two short tandem repeat loci: D10S2325 and D20S161 (Baasner, A and Madea, B), Nov., 1349

Commentary on Amar A, Brautbar C, Motro U, et al. Genetic variation of three tetrameric tandem repeats in four distinct Israeli ethnic groups. J Forensic Sci 1999;44(5):983–6 (Promish, DI), May, 747 Detection and correction of a migration anomaly on a 310 genetic analyzer (Shewale, JG, Richey, SL, and Sinha, SK), Nov., 1339

Distribution of HLA-DQA1, polymarker, CSF1PO, vWA, TH01, TPOX, D16S539, D7S820, D13S317, and D5S818 alleles in East Bengali and West Punjabi populations from Indo-Pak Subcontinent (Tahir, MA, Herrera, RJ, Khan, AA, Kashyap, VK, Duncan, G, Barna, C, Budowle, B, Rowold, DJ, Amjad, M, and Sinha, S), Nov., 1320

Distribution of HumvWA31, Hum-FESFPS, HumTH01, Hum TPOX, HumCD4, HumCSF1PO alleles in a southern Italian population sample (Di Nunno, N, Baldassarra, SL, Carbonara, M, Guanti, G, Resta, N, Viola, L, and Di Nunno, C), July, 943

Fingerprint enhancement revisited and the effects of blood enhancement chemicals on subsequent Profiler Plus™ fluorescent short tandem repeat DNA analysis of fresh and aged bloody fingerprints (Frégeau, CJ, Germain, O, and Fourney, RM), March, 354

Fingerprints and DNA: STR typing of DNA extracted from adhesive tape after processing for fingerprints (Zamir, A, Springger, E, and Glattstein, B), May, 687

Gene frequencies for six STR loci in a Chilean population of mixed ancestry (Figueroa, CC, Acuña, M, and Cifuentes, L), May, 742

Han Chinese population data in Chongqing China for nine STR loci (Wan, LH, Cao, Y, Xiu, CX, and Liu, C), March, 504

Loss of heterozygosity detected in a short tandem repeat (STR) locus commonly used for human DNA identification (Rubocki, RJ, Duffy, KJ, Shepard, KL, McCue, BJ, Shepard, SJ, and Wisecarver, JL), Sept., 1087

Mitochondrial DNA HVI and HVII variation in a North-East Spanish population (Martinez-Jarreta, B, Prades, A, Calafell, F, and Budowle, B), Sept., 1162

Paternity-testing on paraffin-embedded abortion tissue: preparation of fetal cells may be indispensable (Zehner, R and Lasczkowski, G), Nov., 1332

Population data on the X chromosome short tandem repeat locus HumHPRTB in two regions of Germany (Szibor, R, Lautsch, S, Plate, I, and Beck, N), Jan., 231

Population frequency for the short tandem repeat loci D18S849, D3S1744, and D12S1090 in Caucasian-Mestizo and African descent populations of Colombia (Yunis, JJ, Garcia, O, Baena, A, Arboleda, G, Uriarte, I, and Yunis, E), March, 429

Population genetics of HPRTB, F13B, and LPL in Pernambuco, Northeast Brazil (Mauricio-da-Silva, L, Silva, RS, Dellalibera, E, and Donadi, EA), May, 684

Population genetics of the D1S1656, D12S391, and D18S535 loci in Asturias (North Spain) (Martinez-Jarreta, B, Marco, PN, Martínez, EA, Lareu Huidobro, MV, and Budowle, B), March, 442

Population studies and validation of paternity determination by six microsatellite loci (Ingvarsson, S, Finnsdottir, V, Sigurdsson, A, and Geirsson, G), May, 692

Promega Corporation reveals primer sequences in its testing kits (Masibay, A, Mozer, TJ, and Sprecher, C), Nov., 1360 The analysis of three short tandem repeat (STR) loci in the Slovene population by multiplex PCR (Drobnic, K and Budowle, B), July, 893

Validation of the PowerPlex 1.1<sup>™</sup> loci for use in human identification (Greenspoon, SA, Lytle, PJ, Turek, SA, Rolands, JM, Scarpetta, MA, and Carr, CD), May, 677

## **Short tandem reports**

Allele frquencies for the CODIS core STR loci in Connecticut populations (Scherczinger, CA, Hintz, JL, Peck, BJ, Adamowicz, MS, Bourke, MT, Coyle, HM, Ladd, C, Yang, NCS, Budowle, B, and Lee, HC), July, 938

## Signature murder

Signature murders: a report of the 1984 Cranbrook, British Columbia Cases (Keppel, RD), March, 500

## Skeletal anatomy

Sex variation in the second cervical vertebra (Wescott, DJ), March, 462

## Skeleton

Strontium isotope composition of skeletal material can determine the birth place and geographic mobility of humans and animals (Beard, BL and Johnson, CM), Sept., 1049

## Skin

Petechiae of the baby's skin as differentiation symptom of infanticide versus SIDS (Oehmichen, M, Gerling, I, and Meiβner, C), May, 602

## Skin viability

Spectroscopic determination of skin viability. A predictor of postmortem interval (Doukas, AG, Bamberg, M, Gillies, R, Evans, R, and Kollias, N), Jan., 36

### Sleepwalking disorder

Commentary on Kayumov L, Pandi-Perumal SR, Federoff P, Shapiro CM. Diagnostic values of polysomnograph in a forensic medicine. J Forensic Sci 2000 Jan;45(1): 191–4 (Schenck, CH and Mahowald, MW), Sept., 1164

# Slovenia

The Slovenian population data on the PCR based loci HLA-DQA1, LDLR, GYPA, HBGG, D7S8, GC, and D1S80 (Drobnic, K, Regent, A, and Budowle, B), May, 689

## SNIF-NMR

Geographic origin determination of heroin and cocaine using site-specific isotopic ratio deuterium NMR (Hays, PA, Remaud, GS, Jamin, E, and Martin, YL), May, 552

# Sodium oxybate (gamma-hydroxybutyrate)

Microchemical identification of gammahydroxybutyrate (GHB) (Andera, KM, Evans, HK, and Wojcik, CM), May, 665

#### Soi

A density gradient technique for use in forensic soil analysis (Petraco, N and Kubic, T), July, 872

## Solid phase micro-extraction

The detection and analysis of ignitable liquid residues extracted from human skin using SPME/GC (Almirall, JR, Wang, J, Lothridge, K, and Furton, KG), March, 453

## Solid-phase extraction

Solid-phase extraction for profiling of ecstasy tablets (Rashed, AM, Anderson, RA, and King, LA), March, 413

#### Solvent treatments

Restoration tactics for seriously corroded Cu and Cu-alloy firearms evidence (Randich, E, Fickies, TE, Tulleners, FA, Andresen, BD, and Grant, PM), Nov., 1316

## Spain

Allelic frequencies for the HLA-DQA1, D1S80, HUMTHO1, HUMTPOX, HUMCSF1PO and HUMVWA loci in Cantabria (middle north Spain) (Sánchez-Molina, I and Calvet, R), Jan., 167

## Spanish Flu

Ground penetrating radar surveys to locate 1918 Spanish flu victims in permafrost (Davis, JL, Heginbottom, JA, Annan, AP, Daniels, RS, Berdal, BP, Bergan, T, Duncan, KE, Lewin, PK, Oxdord, JS, Roberts, N, Skehel, JJ, and Smith, CR), Jan., 68

## 1918 Spanish Flu

Ground penetrating radar surveys to locate 1918 Spanish flu victims in permafrost (Davis, JL, Heginbottom, JA, Annan, AP, Daniels, RS, Berdal, BP, Bergan, T, Duncan, KE, Lewin, PK, Oxdord, JS, Roberts, N, Skehel, JJ, and Smith, CR), Jan., 68

## Specimen

A DNA-based approach to the idetification of insect species used for postmortem interval estimatioan. Partial sequencing of the cxydase b subunit gene I: a tool for the identification of European species of blow flies for postmortem interval estimation (Wells, JD and Sperling, FAH), Nov., 1358

#### "Speed"

Hair analysis: self-reported use of "Speed" and "Ecstasy" compared with laboratory findings (Cooper, GA, Allen, DL, Scott, KS, Oliver, JS, Ditton, J, and Smith, I), March, 400

#### SPM

A method for collection of gunshot residues from skin and other surfaces (Ståhling, S and Karlsson, T), Nov., 1299

#### **SPME**

Time since discharge of rifles (Andrasko, J and Ståhling, S), Nov., 1250

## Stable isotope analysis

Geographic origin determination of heroin and cocaine using site-specific isotopic ratio deuterium NMR (Hays, PA, Remaud, GS, Jamin, E, and Martin, YL), May, 552

## Stalking

A descriptive study of child and adolescent obsessional followers (McCann, JT), Jan., 195

A replication study of obsessional followers and offenders with mental disorders (Meloy, JR, Rivers, L, Siegel, L, Gothard, S, Naimark, D, and Nicolini, JR), Jan., 147

### **Stamps**

A study on the use of photopolymer reflex plate in the forgery of Chinese seals (Cheng, KC, Cheng, N, and Wei, YC), Sept., 1062

## Static headspace

The effects of microwave irradiation on occluded solvents in illicitly produced cocaine hydrochloride (Morello, DR, Casale, JF, Stevenson, ML, and Klein, RFX), Sept., 1126

### **Statistics**

Erratum (Aitken, CGG), May, 751

# STAXI

Anger experience, styles of anger expression, sadistic personality disorder, and psychopathy in juvenile sexual homicide offenders (Myers, WC and Monaco, L), May, 698

## Sternocostal

Age estimation from sternal ends of ribs by phase analysis in South African Blacks (Oettlé, AC and Steyn, M), Sept., 1071

# Stowaway

Fatal fall of an aircraft stowaway: a demonstration of the importance of death scene investigation (Thogmartin, JR), Jan., 211

#### STR

Phenotypic differences at the HUMvWA locus amplified with different STR kits (Allen, RW, Pritchard, J, Harmon, J, and Floyd, S), Sept., 1166

Population frequency distribution of HumF13A01, HumFXIIIB, and Hum-LIPOL loci in the Basque Country (Northern Spain) (Fernández-Fernández, I, Castro, A, Buján, M, Cuevas, N, García-Orad, A, and de Pancorbo, MM), Sept., 1083

## STR data

STR data for the AMPF•STR Profiler Plus loci among four predominant populations of Eastern India (Dutta, R, Chattopadhyay, P, and Kashyap, VK), Nov., 1353

#### Strangulation

A triad of laryngeal hemorrhages in strangulation: a report of eight cases (Pollanen, MS), May, 614

## Strontium isotope composition

Strontium isotope composition of skeletal material can determine the birth place and geographic mobility of humans and animals (Beard, BL and Johnson, CM), Sept., 1049

## Substance abuse detection

Tracing the source of illicit drugs through plastic packaging—a database (Roux, C, Bull, S, Goulding, J, and Lennard, C), Jan., 99

## Sudden death

Commentary on George JR, Davis GG. Comparision of anti-epileptic drug levels in different cases of sudden death. J Forensic Sci 1998;43:595–603 (May, TW and Schnabel, R), May, 748

Metastatic calcification of the cardiac conduction system with heart block: an underreported entity in chronic renal failure patients (Isotalo, PA, Halil, A, Green, M, Tang, A, Lach, B, and Veinot, JP), Nov., 1335

Sudden unexpected infant death due to fibroma of the heart (Meissner, C, Minnasch, P, Gafumbegete, E, Reiter, A, Gerling, I, and Oehmichen, M), May, 731

## Suffocation

Suffocation using plastic bags: a retrospective study of suicides in Ontario, Canada (Bullock, MJ and Diniz, D), May, 608

#### Suicide

Psychological factors in the determination of suicide in self-inflicted gunshot head wounds (Weinberger, LE, Sreenivasan, S, Gross, EA, Markowitz, E, and Gross, BH), July, 815

Suicide by electrocution with low-voltage current (Marc, B, Baudry, F, Douceron, H, Ghaith, A, Wepierre, JL, and Garnier, M), Jan., 216

Suicide using a hand grenade (Siciliano, C, Costantinides, F, Bernasconi, P, and Di Nunno, N), Jan., 208

The Chain Saw: an uncommon means of committing suicide (Campman, SC, Springer, FA, and Henrikson, DM), March, 471

## Suicide by cop

Clinical and forensic indicators of "suicide by cop" (Mohandie, K and Meloy, JR), March, 384

## Suicides

Unusual cases of suicide among health care workers (Budakov, BM, Simic, MA, Tasic, MM, and Vujic, DN), July, 923

## Superfecundation

Superfecundation and dual paternity in a twin pregnancy ending with placental abruption (Ambach, E, Parson, W, and Brezinka, C), Jan., 181

## Symptom severity

The state of electroconvulsive therapy in Texas. Part I: Reported data on 41,660 ECT treatments in 5971 patients (Scarano, VR, Felthous, AR, and Early, TS), Nov., 1197

#### **Syndromes**

On the assessment of children in suspected child sexual abuse in light of Daubert and Frye: limitations of profiles and interviews as scientifically grounded evidence (Bigelow, BJ), May, 573

 $\mathbf{T}$ 

#### T. D. McCown

Becoming respectable: T. Dale Stewart and the acceptance of forensic anthropology in the academic community (Kennedy, KAR), March, 253

## T. Dale Stewart

Archaeology, science and forensic anthropology: a tribute to Dr. T. Dale Stewart (Bass, WM and Bennett, JL), March, 267 Becoming respectable: T. Dale Stewart and the acceptance of forensic anthropology in the academic community (Kennedy, KAR), March, 253

Dr. T. Dale Stewart's Travels (Prokopec, M), March, 258

Publications of T. Dale Stewart (1901–1997) (Ubelaker, DH), March, 279

Symposium: essays honoring T. Dale Stewart, M.D. (1901–1997) (Ubelaker, DH), March, 243

T. Dale Stewarat: remembrances of a scholar and colleague (Finnegan, M), March, 265

T. Dale Stewart's perspective on his career as a forensic anthropologist at the Smithsonian (Ubelaker, DH), March, 269

The Forensic Anthropology Legacy of T. Dale Stewart (1901–1997) (Ubelaker, DH), March, 245

#### Tape

Analysis of pressure sensitive adhesive tape: I. Evaluation of infrared ATR accessory advances (Merrill, RA and Bartick, EG), Jan., 93

## **Taphonomy**

Skeletal manifestations of bear scavenging (Carson, EA, Stefan, VH, and Powell, JF), May, 515

### Teeth

DNA typing of samples for polymarker, DQA1, and nine STR loci from a human body exhumed after 27 years (Tahir, MA, Balraj, E, Luke, L, Gilbert, T, Hamby, JE, and Amjad, M), July, 902

#### **Template contamination**

A systematic and quantitative analysis for PCR template contamination (Urban, C, Gruber, F, Kundi, M, Falkner, FG, Dorner, F, and Hämmerle, T), Nov., 1307

#### TH01

Allele frequency distributions for twelve STR loci in a Brazilian population (Barros de Castro, IA, Rinzler, CMC, and Rumjanek, FD), July, 941

Commentary on Amar A, Brautbar C, Motro U, et al. Genetic variation of three tetrameric tandem repeats in four distinct Israeli ethnic groups. J Forensic Sci 1999; 44(5):983–6 (Promish, DI), May, 747 Distribution of HLA-DQA1, polymarker, CSF1PO, vWA, TH01, TPOX, D16S539, D7S820, D13S317, and D5S818 alleles in East Bengali and West Punjabi populations from Indo-Pak Subcontinent (Tahir, MA, Herrera, RJ, Khan, AA, Kashyap, VK, Duncan, G, Barna, C, Budowle, B, Rowold,

#### THCA

Commentary on Wu AHB, Hill DW, Crouch D, Hodnett CN, McCurdy HH. Minimal standards for the performance and interpretation of toxicology tests in legal proceedings. J Forensic Sci 1999;44(3): 516–522 (Baselt, RC), March, 507

DJ, Amjad, M, and Sinha, S), Nov., 1320

#### Thin-layer chromatography

A new visibly-excited fluorescent component in latent fingerprint residue induced by gaseous electrical discharge (Davies, LM, Jones, NE, Brennan, JS, and Bramble, SK), Nov., 1294

Separation of visibly-excited fluorescent components in fingerprint residues by thinlayer chromatography (Jones, NE, Davies, LM, Brennan, JS, and Bramble, SK), Nov., 1286

## Threat mail

Threat mail and forensic science: DNA profiling from items of evidence after treatment with DFO (Zamir, A, Oz, C, and Geller, B), March, 445

### Time of death

Spectroscopic determination of skin viability. A predictor of postmortem interval (Doukas, AG, Bamberg, M, Gillies, R, Evans, R, and Kollias, N), Jan., 36

## Time since discharge

Time since discharge of rifles (Andrasko, J and Ståhling, S), Nov., 1250

## Tissue distribution of lidocaine

Determining the state of the deceased during cardiopulmonary resuscitation from tissue distribution patterns of intubation-related lidocaine (Moriya, F and Hashimoto, Y), July, 846

## Tobacco tree

Fatal poisoning from nicotiana glauca leaves: identification of anabasine by gas-

chromatography/mass spectrometry (Mizrachi, N, Levy, S, and Goren, Z), May, 736

#### TOCSY

Identification of heroin in street doses using 1D-TOCSY nuclear magnetic resonance (Suryaprakash, N, Azoury, M, Goren, Z, and Jelinek, R), Sept., 963

#### Toluene

The comparison of toluence determination between headspace-solid phase microextraction and headspace methods in gluesniffer's blood and urine samples (Kim, NY and Park, SW), May, 702

#### **Toolmarks**

Consecutive matching striation criteria: a general critique (Bunch, SG), Sept., 955

## **Toothbrush**

Usefulness of a toothbrush as a source of evidential DNA for typing (Tanaka, M, Yoshimoto, T, Nozawa, H, Ohtaki, H, Kato, Y, Sato, K, Yamamoto, T, Tamaki, K, and Katsumata, Y), May, 674

## Toxicology

<sup>13</sup>C<sub>4</sub>-secobarbital as the internal standard for the quantitative determination of secobarbital—a critical evaluation (Chang, W-T, Lin, DL, Low, IA, and Liu, RH), May, 659

Further commentary on: Wu AHB, Hill DW, Crouch D, Hodnett CN, McCurdy HH. Minimal standards for the performance and interpretation of toxicology tests in legal proceedings. J Forensic Sci 1999;44(3): 516–522 and on the commentary of Kidwell DA, Smith FP. (Bogusz, MJ), Nov., 1359

Postmortem investigation of lamotrigine concentrations (Pricone, MG, King, CV, Drummer, OH, Opeskin, K, and McIntyre, IM), Jan., 11

#### TPOX

Allele frequency distributions for twelve STR loci in a Brazilian population (Barros de Castro, IA, Rinzler, CMC, and Rumjanek, FD), July, 941

Commentary on Amar A, Brautbar C, Motro U, et al. Genetic variation of three tetrameric tandem repeats in four distinct Israeli ethnic groups. J Forensic Sci 1999;44(5):983–6 (Promish, DI), May, 747

Distribution of HLA-DQA1, polymarker, CSF1PO, vWA, TH01, TPOX, D16S539, D7S820, D13S317, and D5S818 alleles in East Bengali and West Punjabi populations from Indo-Pak Subcontinent (Tahir, MA, Herrera, RJ, Khan, AA, Kashyap, VK, Duncan, G, Barna, C, Budowle, B, Rowold, DJ, Amjad, M, and Sinha, S), Nov., 1320

# Trace explosive detection

Method for characterization of adhesion properties of trace explosives in fingerprints and fingerprint simulations (Phares, DJ, Holt, JK, Smedley, GT, and Flagan, RC), July, 774

#### Transorbital

A cause célèbre: the so-called "ballpoint murder" (Rompen, JC, Meek, MF, and van Andel, MV), Sept., 1144

#### **Travels**

Dr. T. Dale Stewart's Travels (Prokopec, M), March, 258

#### Trazodone

Postmortem foensic toxicology of trazodone (Goeringer, KE, Raymon, L, and Logan, BK), July, 850

## **Triage**

Screening of amphetamine/methamphetamine and their derivatives in urine using FPIA and Triage<sup>TM</sup><sub>8</sub> and the scope and limits of a subsequent identification by means of the REMNEDi<sup>TM</sup> HS system (Felscher, D and Schulz, K), Nov., 1327

# Twin pregnancy

Superfecundation and dual paternity in a twin pregnancy ending with placental abruption (Ambach, E, Parson, W, and Brezinka, C), Jan., 181

 $\mathbf{U}$ 

# Ultrasound

In vivo facial tissue depth measurements for children and adults (Manhein, MH, Listi, GA, Barsley, RE, Musselman, R, Barrow, NE, and Ubelaker, D), Jan., 48

## **United States**

Allele frquencies for the CODIS core STR loci in Connecticut populations (Scherczinger, CA, Hintz, JL, Peck, BJ, Adamowicz, MS, Bourke, MT, Coyle, HM, Ladd, C, Yang, NCS, Budowle, B, and Lee, HC), July, 938

## Urine

Screening of amphetamine/methamphetamine and their derivatives in urine using FPIA and Triage<sup>TM8</sup> and the scope and limits of a subsequent identification by means of the REMNEDi<sup>TM</sup> HS system (Felscher, D and Schulz, K), Nov., 1327

# **US Caucasians**

Analysis of genotype frequencies and interlocus association for the PM, DQA1, and D1S80 loci in four populations (Klitz, W, Reynolds, R, Chen, J, and Erlich, HA), Sept., 1009

# **US Hispanics**

Analysis of genotype frequencies and interlocus association for the PM, DQA1, and D1S80 loci in four populations (Klitz, W, Reynolds, R, Chen, J, and Erlich, HA), Sept., 1009

V

#### Venlafaxine

A mixed-drug intoxication involving venlafaxine and verapamil (Kunsman, GW, Kunsman, CM, Presses, CL, Garavaglia, JC, and Farley, NJ), July, 926

## Verapamil

A mixed-drug intoxication involving venlafaxine and verapamil (Kunsman, GW, Kunsman, CM, Presses, CL, Garavaglia, JC, and Farley, NJ), July, 926

## Vertebra

Sex variation in the second cervical vertebra (Wescott, DJ), March, 462

## Victim-precipitated homicide

Clinical and forensic indicators of "suicide by cop" (Mohandie, K and Meloy, JR), March, 384

## Violence

Elderly sexual offenders admitted to a maximum-security forensic hospital (Rayel, MC), Nov., 1190

#### **VWA**

Allele frequency distributions for twelve STR loci in a Brazilian population (Barros de Castro, IA, Rinzler, CMC, and Rumjanek, FD), July, 941

Population genetics of nine STR loci in two populations from Brazil (Corte-Real, F, Andrade, L, Anjos, MJ, Carvalho, M, Vieira, DN, Carracedo, A, and Vide, MC), March, 432

The distribution of D1S80 and vWA alleles in a Karen population from Northern Thailand (Steger, HF, Bhoopat, T, Sridoungkaew, S, and Sanguansermsri, T), March, 440

 $\mathbf{W}$ 

#### Witness materials

Physical and chemical evidence remaining after the explosion of large improvised bombs. Part 2: firings of calcium ammomium nitrate/sugar mixtures (Cullum, H, Lowe, A, Marshall, M, and Hubbard, P), March, 333

#### Wolf

A novel method for forensic DNA investigations: repeat-type sequence analysis of tandemly repeated mtDNA in domestic dogs (Savolainen, P, Arvestad, L, and Lundeberg, J), Sept., 990

#### World

World population data for the HLA-DQA1, PM® and D1S80 loci with least and most common profile frequencies for combinations of loci estimated following NRC II guidelines (Peterson, BL, Su, B, Chakraborty, R, Budowle, B, and Gaensslen, RE), Jan., 118

## Wound ballistics

Ballistic characterization of the Remington Premier<sup>®</sup> Copper Solid<sup>™</sup> sabot shotgun slug (Ward, ME and Nolte, KB), Nov., 1259

X

#### X chromosome

Development of the X-linked tetrameric microsatellite marker DXS9898 for forensic purposes (Hering, S and Szibor, R), July, 929

Population data on the X chromosome short tandem repeat locus HumHPRTB in two regions of Germany (Szibor, R, Lautsch, S, Plate, I, and Beck, N), Jan., 231

Y

#### Y chromosome

Swiss allele frequencies and haplotypes of 7 Y-specific STRs (Gehrig, C, Hochmeister, M, and Budowle, B), March, 436

# Y-haplotype analysis

Swiss allele frequencies and haplotypes of 7 Y-specific STRs (Gehrig, C, Hochmeister, M, and Budowle, B), March, 436

#### Youth

Anger experience, styles of anger expression, sadistic personality disorder, and psychopathy in juvenile sexual homicide offenders (Myers, WC and Monaco, L), May, 698

 $\mathbf{Z}$ 

#### Zvprexa

Olanzapine concentrations in clinical serum and postmortem blood specimens—when does therapeutic become toxic (Robertson, MD and McMullin, MM), March, 418