

## FORENSIC SCIENCE RESEARCH DIGEST

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### INTRODUCTION

Welcome to the inaugural edition of ChemCentre's Forensic Science Research Digest.

The aim of this publication is to provide monthly alerts to forensic science practitioners, academics, researchers and other interested stakeholders, of peer reviewed research output from around the world across the breadth of forensic science disciplines.

The listed research is the aggregate of a few hundred publication titles published through Wiley, Taylor and Francis, Springer, Science Direct, Oxford Journals and Ingenta, and includes early view articles. The literature is summarised by discipline, with the ambitious attempt of covering all forensic disciplines. I trust that you will find it of value.

DR JOHN COUMBAROS

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## Illicit Drugs

- Analysis of 40 weight loss compounds adulterated in health supplements by liquid chromatography quadrupole linear ion trap mass spectrometry, Zeng et al., *Drug Testing and Analysis*, <http://dx.doi.org/10.1002/dta.2141>.
- Behaviour of hygrine and cuscohygrine in illicit cocaine production establishes their use as markers for chewing coca leaves in contrast with cocaine abuse, Rubio et al., *Drug Testing and Analysis*, <http://dx.doi.org/10.1002/dta.1972>.
- Colour quantitation for chemical spot tests for a controlled substances presumptive test database, Elkins, Weghorst, Quinn et al., *Drug Testing and Analysis*, <http://dx.doi.org/10.1002/dta.1949>.
- Detection of phenazepam in illicitly manufactured Erimin 5 tablets, Lim et al., *Drug Testing and Analysis*, <http://dx.doi.org/10.1002/dta.1981>.
- Drug testing in Europe: monitoring results of the Trans European Drug Information (TEDI) project, Brunt et al., *Drug Testing and Analysis*, <http://dx.doi.org/10.1002/dta.1954>.
- Identification and analytical characterization of four synthetic cathinone derivatives iso-4-BMC,  $\beta$ -TH-naphyrone, mexedrone, and 4-MDMC, Qian et al., *Drug Testing and Analysis*, <http://dx.doi.org/10.1002/dta.1983>.
- Identification of five substituted phenethylamine derivatives 5-MAPDB, 5-AEDB, MDMA methylene homolog, 6-Br-MDMA, and 5-APB-NBOMe, Liu et al., *Drug Testing and Analysis*, <http://dx.doi.org/10.1002/dta.1955>.
- Identification of three cannabimimetic indazole and pyrazole derivatives, APINACA 2H-indazole analogue, AMPPPCA, and 5F-AMPPPCA, Jia et al., *Drug Testing and Analysis*, <http://dx.doi.org/10.1002/dta.1967>.
- The detection of flunitrazepam in beverages using portable Raman spectroscopy, Ali & Edwards, *Drug Testing and Analysis*, <http://dx.doi.org/10.1002/dta.1969>.
- Two-dimensional correlation infrared spectroscopy applied to the identification of ephedrine and pseudoephedrine in illegally adulterated slimming herbal products, Miao et al., *Drug Testing and Analysis*, <http://dx.doi.org/10.1002/dta.1963>.
- Variation in commercial smoking mixtures containing third-generation synthetic cannabinoids, Frinculescu et al., *Drug Testing and Analysis*, <http://dx.doi.org/10.1002/dta.1975>.
- Using Cluster Analysis and ICP-MS to Identify Groups of Ecstasy Tablets in Sao Paulo State, Brazil, Maione et al., *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13448>.
- A study of cannabis potency in France over a 25 years period (1992–2016), Dujourdy & Besacier, *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2017.01.007>.
- Prevalence of new psychoactive substances in Northeast Asia from 2007 to 2015, Lee et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2016.10.010>.
- Synthesis and organic impurity profiling of 4-methoxymethamphetamine hydrochloride and its precursors, Tam et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2016.11.041>.
- Development of a GC-APCI-QTOFMS library for new psychoactive substances and comparison to a commercial ESI library, Mesihää et al., *Analytical and Bioanalytical Chemistry*, <http://dx.doi.org/10.1007/s00216-016-0148-y>.
- Synthesis of phthalan and phenethylamine derivatives via addition of alcohols to rhodium(II)-azavinyl carbenoids, Bennett et al., *Tetrahedron Letters*, <http://dx.doi.org/10.1016/j.tetlet.2017.01.105>.
- “Lost in translation”: Issues with the establishment of a legal market for “low risk” psychoactive products (“legal highs”) in New Zealand, Rychert et al., *Drugs: Education, Prevention and Policy*, <http://dx.doi.org/10.1080/09687637.2017.1282422>.

- Exploring the New Phenomena of Home-Made Extraction and Injection of Ephedra Plant Product in Georgia, Otiahvili et al., Substance Use & Misuse, <http://dx.doi.org/10.1080/10826084.2016.1263664>.
- Qualitative and Semiquantitative Analysis of Doping Products Seized at the Swiss Border, Weber et al., Substance Use & Misuse, <http://dx.doi.org/10.1080/10826084.2016.1263665>.
- “Is Marijuana Even a Drug?” A Qualitative Study of How Teens View Marijuana Use and Why They Use It, Friese, Journal of Psychoactive Drugs, <http://dx.doi.org/10.1080/02791072.2017.1290854>.
- Isopropyl Alcohol Swabs as a Preferred Substance of Abuse, Sharma & Morrow, Journal of Psychoactive Drugs, <http://dx.doi.org/10.1080/02791072.2017.1290302>.
- Issues with monitoring the safety of psychoactive products under a legal regulated market for new psychoactive substances ('legal highs') in New Zealand, Rychert et al., Drug and Alcohol Review, <http://dx.doi.org/10.1111/dar.12507>.
- Benzodiazepine Dependence among Young Adult Participants in the Club Scene Who Use Drugs, Kurtz et al., Journal of Psychoactive Drugs, <http://dx.doi.org/10.1080/02791072.2016.1269978>.
- Ketamine and international regulations, Liao et al., The American Journal of Drug and Alcohol Abuse, <http://dx.doi.org/10.1080/00952990.2016.1278449>.
- Non-medical use of prescription drugs and its association with heroin use among high school students, Yantsides et al., Journal of Substance Use, <http://dx.doi.org/10.1080/14659891.2016.1217089>.
- “Someone Else’s Problem”: New Psychoactive Substances in the Online Hungarian Media, Kassai et al., Journal of Psychoactive Drugs, <http://dx.doi.org/10.1080/02791072.2016.1267419>.
- There's something about Molly: The underresearched yet popular powder form of ecstasy in the United States, Palamar, Substance Abuse, <http://dx.doi.org/10.1080/08897077.2016.1267070>.
- Turning the tide or riptide? The changing opioid epidemic, Kertesz, Substance Abuse, <http://dx.doi.org/10.1080/08897077.2016.1261070>.
- The adherence to UK legislation by online shops selling new psychoactive substances, Wadsworth et al., Drugs: Education, Prevention and Policy, <http://dx.doi.org/10.1080/09687637.2017.1284417>.

## Forensic Toxicology

- Contactless decontamination of hair samples: cannabinoids, Restolho et al., Drug Testing and Analysis, <http://dx.doi.org/10.1002/dta.1958>.
- In vitro assessment of 24 CYP2D6 allelic isoforms on the metabolism of methadone, Su et al., Drug Testing and Analysis, <http://dx.doi.org/10.1002/dta.1959>.
- In vitro metabolism of the synthetic cannabinoid 3,5-AB-CHMFUPPYCA and its 5,3-regioisomer and investigation of their thermal stability, Franz et al., Drug Testing and Analysis, <http://dx.doi.org/10.1002/dta.1950>.
- In vitro metabolism study of a black market product containing SARM LGD-4033, Geldof et al., Drug Testing and Analysis, <http://dx.doi.org/10.1002/dta.1930>.
- Norcocaine and cocaethylene distribution patterns in hair samples from light, moderate, and heavy cocaine users, Gambelunghe et al., Drug Testing and Analysis, <http://dx.doi.org/10.1002/dta.1903>.
- Enantioselective analysis of citalopram and demethylcitalopram in human whole blood by chiral LC-MS/MS and application in forensic cases, Johansen, Drug Testing and Analysis, <http://dx.doi.org/10.1002/dta.2173>.
- Dried haematic microsamples and LC-MS/MS for the analysis of natural and synthetic cannabinoids, Prottia et al., Journal of Chromatography B, <http://dx.doi.org/10.1016/j.jchromb.2016.12.038>.

- Ultrasound-assisted dispersive liquid-liquid microextraction for the determination of seven recreational drugs in human whole blood using gas chromatography–mass spectrometry, Lin et al., *Journal of Chromatography B*, <http://dx.doi.org/10.1016/j.jchromb.2017.01.024>.
- LC-HR-MS/MS standard urine screening approach: Pros and cons of automated on-line extraction by turbulent flow chromatography versus dilute-and-shoot and comparison with established urine precipitation, Helfer et al., *Journal of Chromatography B*, <http://dx.doi.org/10.1016/j.jchromb.2016.06.036>.
- One-step extraction of polar drugs from plasma by parallel artificial liquid membrane extraction, Pilařová et al., *Journal of Chromatography B*, <http://dx.doi.org/10.1016/j.jchromb.2016.09.019>.
- Sensitive determination of THC and main metabolites in human plasma by means of microextraction in packed sorbent and gas chromatography–tandem mass spectrometry, Rosado et al., *Journal of Chromatography B*, <http://dx.doi.org/10.1016/j.jchromb.2016.09.007>.
- Long-term mortality after poisoning with antipsychotics, Stine et al., *Clinical Toxicology*, <http://dx.doi.org/10.1080/15563650.2017.1284328>.
- Self-poisoning with baclofen in alcohol-dependent patients: national reports to French Poison Control Centers, 2008–2013, Pelissier et al., *Clinical Toxicology*, <http://dx.doi.org/10.1080/15563650.2017.1284330>.
- Limitations of the evidence supporting use of undetectable acetaminophen levels obtained <4 hours post-ingestion to rule out toxicity, Spyres et al., *Clinical Toxicology*, <http://dx.doi.org/10.1080/15563650.2017.1284335>.
- Toxicokinetics of ibogaine and noribogaine in a patient with prolonged multiple cardiac arrhythmias after ingestion of internet purchased ibogaine, Henstra et al., *Clinical Toxicology*, <http://dx.doi.org/10.1080/15563650.2017.1287372>.
- Analytically diagnosed intoxication by 2-methoxyphenidine and flubromazepam mimicking an ischemic cerebral disease, Valli et al., *Clinical Toxicology*, <http://dx.doi.org/10.1080/15563650.2017.1286016>.
- Comparison of LC-MS/MS vs chemiluminescent microparticle immunoassay in measuring the valproic acid concentration in plasma of epilepsy patients in a new perspective, Wang et al., *Journal of Clinical Laboratory Analysis*, <http://dx.doi.org/10.1002/jcla.22157>.
- Fluorescence-based lateral flow assays for rapid oral fluid roadside detection of cannabis use, Plouffe & Murthy, *Electrophoresis*, <http://dx.doi.org/10.1002/elps.201600075>.
- Metabolism and metabolomics of ketamine: a toxicological approach, Dinis-Oliveira, *Forensic Science Research*, <http://www.tandfonline.com/doi/full/10.1080/20961790.2017.1285219>.
- Postmortem concentrations of gamma-hydroxybutyrate (GHB) in peripheral blood and brain tissue — Differentiating between postmortem formation and antemortem intake, Thomsen et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2016.12.038>.
- Topical application of THC containing products is not able to cause positive cannabinoid finding in blood or urine, Hess et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2017.01.008>.
- Frequency of forensic toxicological analysis in external cause deaths among nursing home residents: an analysis of trends, Aitken et al., *Forensic Science, Medicine, and Pathology*, <http://dx.doi.org/10.1007/s12024-016-9830-9>.
- Determination of the unbound fraction of R- and S-methadone in human brain, Ruan et al., *International Journal of Legal Medicine*, <http://dx.doi.org/10.1007/s00414-016-1417-1>.
- Time-dependent postmortem redistribution of morphine and its metabolites in blood and alternative matrices— application of CT-guided biopsy sampling, Staeheli et al., *International Journal of Legal Medicine*, <http://dx.doi.org/10.1007/s00414-016-1485-2>.
- Rapid analysis of cocaine and metabolites in urine using microextraction in packed sorbent and GC/MS, Rosado et al., *Analytical and Bioanalytical Chemistry*, <http://dx.doi.org/10.1007/s00216-016-0152-2>.

- 1,2-Dimethylimidazole-4-sulfonyl chloride (DMISC), a novel derivatization strategy for the analysis of propofol by LC-ESI-MS/MS, Maas et al., *Analytical and Bioanalytical Chemistry*, <http://dx.doi.org/10.1007/s00216-016-0086-8>.
- Biotransformation and detectability of the new psychoactive substances N,N-diallyltryptamine (DALT) derivatives 5-fluoro-DALT, 7-methyl-DALT, and 5,6-methylenedioxy-DALT in urine using GC-MS, LC-MSn, and LC-HR-MS/MS, Michely et al., *Analytical and Bioanalytical Chemistry*, <http://dx.doi.org/10.1007/s00216-016-0117-5>.
- Loperamide, the “Poor Man’s Methadone”: Brief Review, Stanciu et al., *Journal of Psychoactive Drugs*, <http://dx.doi.org/10.1080/02791072.2016.1260188>.
- High Concomitant Misuse of Fentanyl in Subjects on Opioid Maintenance Treatment, Krause et al., *Substance Use & Misuse*, <http://dx.doi.org/10.1080/10826084.2016.1246571>.
- Subjective Report of Side Effects of Prescribed and Nonprescribed Psychostimulant Use in Young Adults, Smith et al., *Substance Use & Misuse*, <http://dx.doi.org/10.1080/10826084.2016.1240694>.
- Metabolism of psilocybin and psilocin: clinical and forensic toxicological relevance, Dinis-Oliveira, *Drug Metabolism Reviews*, <http://dx.doi.org/10.1080/03602532.2016.1278228>.
- A straightforward, validated liquid chromatography coupled to tandem mass spectrometry method for the simultaneous detection of nine drugs of abuse and their metabolites in hair and nails, Cappelle et al., *Analytica Chimica Acta*, <http://dx.doi.org/10.1016/j.aca.2017.01.022>.
- Intoxilyzer® 8000C breath results obtained from a suspected impaired driver following reported occupational solvent exposure, Woodall & Palmentier, *Canadian Society of Forensic Science Journal*, <http://dx.doi.org/10.1080/00085030.2017.1281634>.

## Trace/Physical Evidence

- <sup>1</sup>H-NMR with Multivariate Analysis for Automobile Lubricant Comparison, Kim et al., *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13471>.
- The Diagnostic Value of Quantitative Assessment of Diatom Test for Drowning: An Analysis of 128 Water-related Death Cases using Microwave Digestion-Vacuum Filtration-Automated Scanning Electron Microscopy, Zhao et al., *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13455>.
- Managing the forensic examination of human hairs in contemporary forensic practice, Robertson, *Australian Journal of Forensic Sciences*, <http://dx.doi.org/10.1080/00450618.2017.1279838>.
- X-ray Diffraction and Rietveld Refinement in Deferrified Clays for Forensic Science, Prandel et al., *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13476>.
- Characterization of smokeless powders using multiplexed collision-induced dissociation mass spectrometry and chemometric procedures, Reese et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2016.12.021>.
- Distinguishing real from fake ivory products by elemental analyses: A Bayesian hybrid classification method, Buddhachat et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2017.01.016>.
- Forensic assignment to geographic origin, a useful tool in seafood fraud control, Horreo et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2017.01.003>.
- Short range shooting distance estimation using variable pressure SEM images of the surroundings of bullet holes in textiles, Hinrichs et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2016.12.033>.

- The identification of markers for Geoforensic HPLC profiling at close proximity sites, McCulloch et al., Forensic Science International, <http://dx.doi.org/10.1016/j.forsciint.2017.01.009>.
- Time since discharge of 9 mm cartridges by headspace analysis, part 1: Comprehensive optimisation and validation of a headspace sorptive extraction (HSSE) method, Gallidabino et al., Forensic Science International, <http://dx.doi.org/10.1016/j.forsciint.2016.12.029>.
- Time since discharge of 9 mm cartridges by headspace analysis, part 2: Ageing study and estimation of the time since discharge using multivariate regression, Gallidabino et al., Forensic Science International, <http://dx.doi.org/10.1016/j.forsciint.2016.12.027>.
- Study of Pyrotechnic Blue Strobe Compositions Based on Ammonium Perchlorate and Tetramethylammonium Nitrate, Juknelevicius et al., European Journal of Inorganic Chemistry, <http://dx.doi.org/10.1002/ejic.201601486>.
- A single molecular fluorescent probe for selective and sensitive detection of nitroaromatic explosives: A new strategy for the mask-free discrimination of TNT and TNP within same sample, Zhang et al., Talanta, <http://dx.doi.org/10.1016/j.talanta.2017.01.046>.
- Imaging mass spectrometry of elements in forensic cases by LA-ICP-MS, Lauer et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1414-4>.
- Research on Equation of State for Detonation Products of Aluminized Explosive, Yue et al., Journal of Energetic Materials, <http://dx.doi.org/10.1080/07370652.2017.1284957>.
- Ultrafast gas chromatography method with direct injection for the quantitative determination of benzene, toluene, ethylbenzene, and xylenes in commercial gasoline, Miranda et al., Journal of Separation Science, <http://dx.doi.org/10.1002/jssc.201601174>.

## Forensic Biology

- Evaluation of Skin Surface as an Alternative Source of Reference DNA Samples: A Pilot Study, Albuja et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13468>.
- The Optimization of Electrophoresis on a Glass Microfluidic Chip and its Application in Forensic Science, Han et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13408>.
- Bloodstains on Leather: Examination of False Negatives in Presumptive Test and Human Hemoglobin Test, Castelló et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13407>.
- Identification of aged bloodstains through mRNA profiling: Experiments results on selected markers of 30- and 50-year-old samples, Zhao et al., Forensic Science International, <http://dx.doi.org/10.1016/j.forsciint.2017.01.006>.
- Haplotype analysis of the polymorphic 24 Y-STR markers in six ethnic populations from China, Liu et al., Australian Journal of Forensic Sciences, <http://dx.doi.org/10.1080/00450618.2017.1281347>.
- Massively parallel sequencing of 231 autosomal SNPs with a custom panel: a SNP typing assay developed for human identification with Ion Torrent PGM, Zhang et al., Forensic Science Research, <http://www.tandfonline.com/doi/full/10.1080/20961790.2017.1281011>.
- High resolution melt curve analysis based on methylation status for human semen identification, Fachel et al., Forensic Science, Medicine, and Pathology, <http://dx.doi.org/10.1007/s12024-016-9825-6>.
- A mixture detection method based on separate amplification using primer specific alleles of INDELS-a study based on two person's DNA mixture, Liu et al., Journal of Forensic and Legal Medicine, <http://dx.doi.org/10.1016/j.jflm.2017.01.002>.

- A rapid and efficient DNA extraction protocol from fresh and frozen human blood samples, Guha et al., Journal of Clinical Laboratory Analysis, <http://dx.doi.org/10.1002/jcla.22181>.
- Highly multiplex and sensitive SNP genotyping method using a three-color fluorescence-labeled ligase detection reaction coupled with conformation-sensitive CE, Choi & Jung, Electrophoresis, <http://dx.doi.org/10.1002/elps.201600369>.
- A mass spectrometry-based multiplex SNP genotyping by utilizing allele-specific ligation and strand displacement amplification, Park et al., Biosensors and Bioelectronics, <http://dx.doi.org/10.1016/j.bios.2016.10.065>.
- An electrochemical DNA sensor without electrode pre-modification, Hong et al., Biosensors and Bioelectronics, <http://dx.doi.org/10.1016/j.bios.2016.10.008>.
- Electrochemical bioassay development for ultrasensitive aptasensing of prostate specific antigen, Heydari-Bafrooei & Shamszadeha, Biosensors and Bioelectronics, <http://dx.doi.org/10.1016/j.bios.2016.12.048>.
- Blood identification and discrimination between human and nonhuman blood using portable Raman spectroscopy, Fujihara et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1396-2>.
- Case report: on the use of the HID-Ion AmpliSeq™ Ancestry Panel in a real forensic case, Hollard et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1425-1>.
- Characterization of degradation and heterozygote balance by simulation of the forensic DNA analysis process, Hansson et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1453-x>.
- Characterization of GlobalFiler loci in Angolan and Guinean populations inhabiting Southern Portugal, Guerreiro et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1497-y>.
- Compatibility of DNA IQ™, QIAamp® DNA Investigator, and QIAasymphony® DNA Investigator® with various fingerprint treatments, Lin et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1447-8>.
- Multiplex assay development and mutation rate analysis for 13 RM Y-STRs in Chinese Han population, Zhang et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1489-y>.
- Mutation analysis for the detection of long QT-syndrome (LQTS) associated SNPs, Edelman et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1446-9>.
- Permanganate-assisted removal of PCR inhibitors during the DNA Chelex extraction from stained denim samples, Pîrlea et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1443-z>.
- The applicability of ELISA detection of gastric mucosa-expressing proteins for the identification of vomit, Akutsu et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1409-1>.
- Nanocarbons for DNA sequencing: A review, Yang & Jiang, Carbon, <http://dx.doi.org/10.1016/j.carbon.2017.01.012>.
- Revealing the location of semen, vaginal fluid and urine in stained evidence through near infrared chemical imaging, Zapata et al., Talanta, <http://dx.doi.org/10.1016/j.talanta.2017.01.086>.

## Racing Chemistry

- Simultaneous detection of xenon and krypton in equine plasma by gas chromatography-tandem mass spectrometry for doping control, Kwok et al., Drug Testing and Analysis, <http://dx.doi.org/10.1002/dta.1971>.



## Document Examination

An explorative chemometric approach applied to hyperspectral images for the study of illuminated manuscripts, Catellia et al., Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, <http://dx.doi.org/10.1016/j.saa.2017.01.015>.

A complete Raman study of common acid red dyes: application to the identification of artistic materials in polychrome prints, Cesaratto et al., Journal of Raman Spectroscopy, <http://dx.doi.org/10.1002/jrs.5082>.

## Fingerprints

Supporting fingerprint identification assessments using a skin stretch model — A preliminary study, Lee et al., Forensic Science International, <http://dx.doi.org/10.1016/j.forsciint.2016.12.036>.

Performance Study of a Score-based Likelihood Ratio System for Forensic Fingermark Comparison, Leegwater et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13339>.

The Effect of Varying the Composition of Fingerprint Sweat Deposits on the Corrosion of Brass and Fingerprint Visibility Cooper-Dunn et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13427>.

## Ballistics and Toolmarks

The traumatic potential of a projectile shot from a sling, Borovsky et al., Forensic Science International, <http://dx.doi.org/10.1016/j.forsciint.2016.10.006>.

The influence of the bullet shape on the width of abrasion collars and the size of gunshot entrance holes, Pircher et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1501-6>.

High-speed video analysis of crown formation dynamics of controlled weapon-head impacts on to three surface types, Stotesbury et al., Canadian Society of Forensic Science Journal, <http://dx.doi.org/10.1080/00085030.2017.1281628>.

## BPA

Quantitative Differentiation of Bloodstain Patterns Resulting from Gunshot and Blunt Force Impacts, Siu et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13418>.

## Crime Scene

Hierarchical, Three-Dimensional Measurement System for Crime Scene Scanning, Marcin et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13382>.

## Forensic Entomology

Morphological Features of Regurgitate and Defecatory Stains Deposited by Five Species of Necrophagous Flies are Influenced by Adult Diets and Body Size, Rivers & McGregor, *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13459>.

## Forensic Odontology

An analysis of dental intercanine distance for use in court cases involving bite marks, Reinprecht et al., *International Journal of Legal Medicine*, <http://dx.doi.org/10.1007/s00414-016-1510-5>.

Dental age estimation in the living after completion of third molar mineralization: new data for Gustafson's criteria, Timme et al., *International Journal of Legal Medicine*, <http://dx.doi.org/10.1007/s00414-016-1492-3>.

Dental development in patients with agenesis, Lebbe et al., *International Journal of Legal Medicine*, <http://dx.doi.org/10.1007/s00414-016-1450-0>.

New models for age estimation and assessment of their accuracy using developing mandibular third molar teeth in a Thai population, Duangto et al., *International Journal of Legal Medicine*, <http://dx.doi.org/10.1007/s00414-016-1467-4>.

The circles of life: age at death estimation in burnt teeth through tooth cementum annulations, Oliveira-Santos et al., *International Journal of Legal Medicine*, <http://dx.doi.org/10.1007/s00414-016-1432-2>.

The role of forensic medicine and forensic dentistry in estimating the chronological age of living individuals in Hamburg, Germany, Mansour et al., *International Journal of Legal Medicine*, <http://dx.doi.org/10.1007/s00414-016-1517-y>.

A Comparison of US and Japanese Dental Restorative Care Present on Service Members Recovered from the WWII Era, Shiroma, *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13446>.

Accuracy of Dental Age in Nonadults: A Comparison of Two Methods for Age Estimation Using Radiographs of Developing Teeth, Santana et al., *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13434>.

Uniqueness of the anterior dentition three-dimensionally assessed for forensic bitemark analysis, Franco et al., *Journal of Forensic and Legal Medicine*, <http://dx.doi.org/10.1016/j.jflm.2017.01.005>.

## Forensic Pathology

An "up, no change, or down" system: Time-dependent expression of mRNAs in contused skeletal muscle of rats used for wound age estimation, Sun et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2017.01.012>.

Demographic, clinical and pathological features of sudden deaths due to myocarditis: Results from a state-wide population-based autopsy study, Li et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2016.12.037>.

Case Report of a Migrating Bullet: An Unusual Cause of Postmortem Confusion, Chute et al., *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13428>.

An Unexpected Finding in SUDEP Involving a Child: Focal Myocardial Infarct Adjacent to Bundle of His, Neff & Lin, *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13454>.

- Characteristics of Bone Injuries Resulting from Knife Wounds Incised with Different Forces, Humphrey et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13467>.
- Effects of Re-heating Tissue Samples to Core Body Temperature on High-Velocity Ballistic Projectile–tissue Interactions, Humphrey et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13473>.
- Manifestations and Medicolegal Significance of Loeys–Dietz Syndrome, Byard, Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13466>.
- Unnatural and Violent Death in Cases with High Blood Alcohol Concentration— Autopsy Study, Cvetković et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13460>.
- Alteration of the Death Scene After Self-stabbing: A Case of Sharp Force Suicide Disguised by the Victim as a Homicide? Pelletti et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13440>.
- Biparietal Thinning: Accidental Death by a Fall from Standing Height, Mann et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13425>.
- Coexistence of Subdural Hematoma and a Rare Cardiopathy in an Infant: Etiological and French Medicolegal Discussion, Tuchtan et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13447>.
- Determination of Time since Death using Vitreous Humor Tryptophan, Ansari & Menon, Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13430>.
- Forensic Considerations in Cases of Myotonic Dystrophy at Autopsy, Omond & Byard, Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13444>.
- LIFE BEYOND LIFE – An Easy Way to Derive Lung Fibroblasts from Cadavers, Colomb et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13445>.
- Postmortem Serum Tryptase Levels with Special Regard to Acute Cardiac Deaths, Xiao et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13420>.
- Repeat Coronary Artery Dissection in Pregnancy: A Case Report and Review of the Literature, Bitting & Zumwalt, Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13436>.
- Signs of Fungal Infection in Dead Mimic the Chronic Torture Pathak et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13350>.
- A simple post mortem room angiography method for the investigation of traumatic basal subarachnoid hemorrhage, Johnson et al., Forensic Science, Medicine, and Pathology, <http://dx.doi.org/10.1007/s12024-016-9820-y>.
- Characteristics of road traffic accident casualties admitted to a tertiary care hospital in Sri Lanka, Fernando et al., Forensic Science, Medicine and Pathology, <http://dx.doi.org/10.1007/s12024-016-9828-3>.
- Current issues in postmortem imaging of perinatal and forensic childhood deaths, Arthurs et al., Forensic Science, Medicine, and Pathology, <http://dx.doi.org/10.1007/s12024-016-9821-x>.
- Estimation of the human postmortem interval using an established rat mathematical model and multi-RNA markers, Lv et al., Forensic Science, Medicine, and Pathology, <http://dx.doi.org/10.1007/s12024-016-9827-4>.
- Farming deaths – an ongoing problem, Byard, Forensic Science, Medicine, and Pathology, <http://dx.doi.org/10.1007/s12024-017-9839-8>.
- Fatal disseminated neonatal herpes simplex virus type 1 infection in neonates in a forensic setting, Wu and Parsons, Forensic Science, Medicine, and Pathology, <http://dx.doi.org/10.1007/s12024-016-9834-5>.
- Mortuary operations following mass fatality natural disasters: a review, Anderson et al., Forensic Science, Medicine, and Pathology, <http://dx.doi.org/10.1007/s12024-016-9836-3>.

- Validation of alternate light sources for detection of bruises in non-embalmed and embalmed cadavers, Olds et al., Forensic Science, Medicine, and Pathology, <http://dx.doi.org/10.1007/s12024-016-9822-9>.
- VirtoScan - a mobile, low-cost photogrammetry setup for fast post-mortem 3D full-body documentations in x-ray computed tomography and autopsy suites, Kottner et al., Forensic Science, Medicine, and Pathology, <http://dx.doi.org/10.1007/s12024-016-9837-2>.
- Does the forensic physician have a role beyond injury documentation and specimen collection in Australia? A personal view, Gall, Journal of Forensic and Legal Medicine, <http://dx.doi.org/10.1016/j.jflm.2016.12.008>.
- Multivariate linear regression modelling of lung weight in 24,056 Swedish medico-legal autopsy cases, Gustafsson et al., Journal of Forensic and Legal Medicine, <http://dx.doi.org/10.1016/j.jflm.2016.12.001>.
- Post-mortem CT evaluation of atlanto-occipital dissociation, Madadin et al., Journal of Forensic and Legal Medicine, <http://dx.doi.org/10.1016/j.jflm.2016.12.009>.
- Sexual homicide: Brief review of the literature and case report involving rape, genital mutilation and human arson, Karakasi et al., Journal of Forensic and Legal Medicine, <http://dx.doi.org/10.1016/j.jflm.2016.12.005>.
- Anterior wrist and medial malleolus: the optimal sites for tissue selection in electric death through hand-to-foot circuit pathway, Xu et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1474-5>.
- Detection of methaemoglobinaemia and its application in 'poppers' abuse: maintaining the right balance between reduction and autooxidation during storage, Domingo et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1410-8>.
- Extensive unusual lesions on a large number of immersed human victims found to be from cookiecutter sharks (*Isistius* spp.): an examination of the Yemenia plane crash, Ribéreau-Gayon et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1449-6>.
- First application of a protein-based approach for time since death estimation, Pittner et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1459-4>.
- Immunohistochemical detection of early myocardial infarction: a systematic review, Mondello et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1494-1>.
- Medico-legal perspectives on sudden cardiac death in young athletes, Oliva et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1452-y>.
- Electrocardiogram Alterations Associated With Psychotropic Drug Use and CACNA1C Gene Variants in Three Independent Samples, Fabbri et al., Basic & Clinical Pharmacology & Toxicology, <http://dx.doi.org/10.1111/bcpt.12720>.

## Forensic Anthropology

- A comparison of techniques in age estimation using the third molar, Berkvens et al., Canadian Society of Forensic Science Journal, <http://dx.doi.org/10.1080/00085030.2017.1281632>.
- Age estimation in Portuguese population: The application of the London atlas of tooth development and eruption, Pavlovića et al., Forensic Science International, <http://dx.doi.org/10.1016/j.forsciint.2017.01.011>.
- Bone natural autofluorescence and confocal laser scanning microscopy: Preliminary results of a novel useful tool to distinguish between forensic and ancient human skeletal remains, Capasso et al., Forensic Science International, <http://dx.doi.org/10.1016/j.forsciint.2017.01.017>.

- Shape variability of the adult human acetabulum and acetabular fossa related to sex and age by geometric morphometrics. Implications for adult age estimation, San-Millán et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2017.01.005>.
- Sex determination using the DSP (probabilistic sex diagnosis) method on the coxal bone: Efficiency of method according to number of available variables, Quatrehomme et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2016.10.020>.
- Third molar cut-off value in assessing the legal age of 18 in Saudi population, AlQahtani et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2017.01.004>.
- Toward a universal equation to estimate postmortem interval, Mailea et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2017.01.013>.
- Forensic Identification of Bipartite Patella Misdiagnosed as Patella Fracture, Ma et al., *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13357>.
- Sex Assessment from the Volume of the First Metatarsal Bone: A Comparison of Linear and Volume Measurements, Gibelli et al., *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13464>.
- Sex, Parity, and Scars: A Meta-analytic Review, McFadden & Oxenham, *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13478>.
- The Effect of Body Mass on Outdoor Adult Human Decomposition, Roberts et al., *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13398>.
- The Effect of Decomposition on the Efficacy of Biometrics for Positive Identification, Sauerwein et al., *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13484>.
- The Reliability of Facial Recognition of Deceased Persons on Photographs, Caplova et al., *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13396>.
- Using Carbon, Oxygen, Strontium, and Lead Isotopes in Modern Human Teeth for Forensic Investigations: A Critical Overview Based on Data from Bulgaria, Kamenov & Curtis, *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13462>.
- Adapting and Applying the Phenice (1969) Adult Morphological Sex Estimation Technique to Subadults, Klaes & Burns, *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13332>.
- Application of the Stephan et al. Chest Radiograph Comparison Method to Decomposed Human Remains, Isa et al., *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13432>.
- Sexual Dimorphism of the First Rib: A Comparative Approach Using Metric and Geometric Morphometric Analyses, Heaton, *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13421>.
- Estimation of stature from radiographic measurement of foot dimensions: Truncated foot length may be more reliable than full foot length. Gwani et al., *Journal of Forensic and Legal Medicine*, <http://dx.doi.org/10.1016/j.jflm.2017.01.004>.
- Morphometric evaluation of the foramen magnum for sex determination: A study from Saudi Arabia, Madadin et al., *Journal of Forensic and Legal Medicine*, <http://dx.doi.org/10.1016/j.jflm.2017.01.001>.
- Bone age estimation based on multislice computed tomography study of the scapula, Nougariolis et al., *International Journal of Legal Medicine*, <http://dx.doi.org/10.1007/s00414-016-1466-5>.
- Comparison of macroscopic and microscopic (stereomicroscopy and scanning electron microscopy) features of bone lesions due to hatchet hacking trauma, Nogueira et al., *International Journal of Legal Medicine*, <http://dx.doi.org/10.1007/s00414-016-1522-1>.
- Evaluation of the ossification of the medial clavicle according to the Kellinghaus substage system in identifying the 18-year-old age limit in the estimation of forensic age—is it necessary?, Gurses et al., *International Journal of Legal Medicine*, <http://dx.doi.org/10.1007/s00414-016-1515-0>.

Magnetic resonance imaging of the distal radial epiphysis: a new criterion of maturity for determining whether the age of 18 has been completed?, Timme et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1502-5>.

New approach to age estimation of male and female adult skeletons based on the morphological characteristics of the acetabulum, San-Millán et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1406-4>.

New bone post-processing tools in forensic imaging: a multi-reader feasibility study to evaluate detection time and diagnostic accuracy in rib fracture assessment, Glemser et al., International Journal of Legal Medicine, <http://dx.doi.org/10.1007/s00414-016-1412-6>.

## Forensic Psychology

Patient perceptions of schizophrenia in forensic and general adult psychiatry, Wall et al., The Journal of Forensic Psychiatry & Psychology, <http://dx.doi.org/10.1080/14789949.2017.1284885>.

The role of neurological and psychological explanations in legal judgments of psychopathic wrongdoers, Marshall et al., The Journal of Forensic Psychiatry & Psychology, <http://dx.doi.org/10.1080/14789949.2017.1291706>.

A Case Study Demonstrating the Effectiveness of an Adapted-DBT Program Upon Increasing Adaptive Emotion Management Skills, With an Individual Diagnosed With Mild Learning Disability and Emotionally Unstable Personality Disorder, Ashworth et al., Journal of Forensic Psychology Research and Practice, <http://dx.doi.org/10.1080/15228932.2017.1251098>.

Henderson Instructions: Do They Enhance Evidence Evaluation?, Dillon et al., Journal of Forensic Psychology Research and Practice, <http://dx.doi.org/10.1080/15228932.2017.1235964>.

Which Information Matters? Using Policy Capturing to Understand Civil Competency Decisions, Quickel et al., Journal of Forensic Psychology Research and Practice, <http://dx.doi.org/10.1080/15228932.2017.1256146>.

The Emotional Experience of Mentally Disordered Offenders (MDO): An Exploratory Study Using Smallest Space Analysis (SSA), Spruin & Siesmaa, Journal of Forensic Psychology Research and Practice, <http://dx.doi.org/10.1080/15228932.2017.1277678>.

The Normalization of Cannabis Use Among Bangladeshi and Pakistani Youth: A New Frontier for the Normalization Thesis?, Williams et al., Substance Use & Misuse, <http://dx.doi.org/10.1080/10826084.2016.1233565>.

Adolescent Social Networks and Alcohol Use: Variability by Gender and Type, Jacobs et al., Substance Use & Misuse, <http://dx.doi.org/10.1080/10826084.2016.1245333>.

Eye Movement Evidence of Attentional Bias for Substance-Related Cues in Heroin Dependents on Methadone Maintenance Therapy, Zhao et al., Substance Use & Misuse, <http://dx.doi.org/10.1080/10826084.2016.1264967>.

Similarity and Difference in Drug Addiction Process Between Heroin- and Methamphetamine-Dependent Users, Wang et al., Substance Use & Misuse, <http://dx.doi.org/10.1080/10826084.2016.1245331>.

Alcohol-Impaired Driving: The Influence of Adverse Rearing Environments, Alcohol, Cannabis Use, and the Moderating Role of Anxiety, Oshri et al., Substance Use & Misuse, <http://dx.doi.org/10.1080/10826084.2016.1245336>.

Differences by Gender in Predictors of Motivation Among Substance Abuse Treatment Participants, Taylor et al., Substance Use & Misuse, <http://dx.doi.org/10.1080/10826084.2016.1245332>.

- Gender and Direction of Effect of Alcohol Problems and Internalizing Symptoms in a Longitudinal Sample of College Students, Homman et al., Substance Use & Misuse, <http://dx.doi.org/10.1080/10826084.2016.1233983>.
- Testing the Model of Goal-Directed Behavior for Predicting Binge Drinking Among Young People, Gabbiadini et al., Substance Use & Misuse, <http://dx.doi.org/10.1080/10826084.2016.1245335>.
- Implications of Eligibility Criteria on the Generalizability of Alcohol and Drug Treatment Outcome Research: A Study of Real-World Treatment Seekers in Sweden and in Australia, Storbjörk et al., Substance Use & Misuse, <http://dx.doi.org/10.1080/10826084.2016.1240695>.
- Area-Level Deprivation and Adverse Consequences in People With Substance Use Disorders: Findings From the Psychiatric and Addictive Dual Disorder in Italy (PADDI) Study, Carrà et al., Substance Use & Misuse, <http://dx.doi.org/10.1080/10826084.2016.1240696>.
- Clinical Characteristics of Synthetic Cannabinoid Use in a Large Urban Psychiatric Emergency Setting, Manseau, Rajparia, Joseph et al., Substance Use & Misuse, <http://dx.doi.org/10.1080/10826084.2016.1263663>.
- How Individuals Feel About the Past, Present, and Future Bears Little Relation to Alcohol-Related Problems, Anxiety, and Depression: A Person-Centered Analysis in a University Sample, McKay et al., Substance Use & Misuse, <http://dx.doi.org/10.1080/10826084.2016.1263662>.
- Factors associated with desistance from violence in prison: an exploratory study, Ellis & Bowen, Psychology, Crime & Law, <http://dx.doi.org/10.1080/1068316X.2017.1290090>.
- Testing the three- and four-factor models of the Korean version PCL-R as predictors of two antisocial outcomes – recidivism and risk, Sohn et al., Psychology, Crime & Law, <http://dx.doi.org/10.1080/1068316X.2017.1284215>.
- A descriptive account of victims' behaviour and responses in sexually exploitative interactions with offender, Kloess et al., Psychology, Crime & Law, <http://dx.doi.org/10.1080/1068316X.2017.1293052>.
- Adapting measures of social climate for use with individuals with intellectual developmental disability in forensic settings, Bell et al., Psychology, Crime & Law, <http://dx.doi.org/10.1080/1068316X.2017.1298761>.
- Situational variables or beliefs? A multifaceted approach to understanding blame attributions, Adolfsson & Strömwall, Psychology, Crime & Law, <http://dx.doi.org/10.1080/1068316X.2017.1290236>.
- A descriptive account of victims' behaviour and responses in sexually exploitative interactions with offenders, Kloess et al., Psychology, Crime & Law, <http://dx.doi.org/10.1080/1068316X.2017.1293052>.
- A Research Note on the Association between Work-Family Conflict and Job Stress among Chinese Prison Staff, Liu et al., Psychology, Crime & Law, <http://dx.doi.org/10.1080/1068316X.2017.1296148>.
- A Framework for the Judicious Use of the Polygraph for Youth Who Have Committed a Sexual Crime, Yoder et al., Victims & Offenders, <http://dx.doi.org/10.1080/15564886.2017.1289994>.
- Effective interventions for drug using women offenders: A narrative literature review, Grace, Journal of Substance Use, <http://dx.doi.org/10.1080/14659891.2017.1278624>.
- Using the lost letter technique to measure real-life behavioral effects of alcohol use, Van Hoof et al., Journal of Substance Use, <http://dx.doi.org/10.3109/14659891.2016.1143044>.
- 'Unintended' audiences of alcohol advertising: exposure and drinking behaviors among Australian adolescents, Faulkner et al., Journal of Substance Use, <http://dx.doi.org/10.3109/14659891.2016.1143047>.
- Barroom aggression perpetration by Australian women: Associations with heavy episodic drinking, trait aggression, and conformity to gender norms, Hayley et al., Journal of Substance Use, <http://dx.doi.org/10.1080/14659891.2016.1271040>.
- Preliminary Study of Testosterone and Empathy in Determining Recidivism and Antisocial Behavior, House et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13469>.

- Violent offences of methamphetamine users and dilemmas of forensic psychiatric assessment, Liu et al., Forensic Science Research, <http://www.tandfonline.com/doi/full/10.1080/20961790.2017.1287155>.
- Choosing to Live or Die: Online Narratives of Recovering from Methamphetamine Abuse, Obong'o et al., Journal of Psychoactive Drugs, <http://dx.doi.org/10.1080/02791072.2016.1262085>.
- Substance Use, Health, and Functioning Characteristics of Medical Marijuana Program Participants Compared to the General Adult Population in Ontario (Canada), Fischer et al., Journal of Psychoactive Drugs, <http://dx.doi.org/10.1080/02791072.2016.1264648>.
- To Study, to Party, or Both? Assessing Risk Factors for Non-Prescribed Stimulant Use among Middle and High School Students, León et al., Journal of Psychoactive Drugs, <http://dx.doi.org/10.1080/02791072.2016.1260187>.
- Avatar-assisted therapy: a proof-of-concept pilot study of a novel technology-based intervention to treat substance use disorders, Gordon et al., The American Journal of Drug and Alcohol Abuse, <http://dx.doi.org/10.1080/00952990.2017.1280816>.
- A different world" exploring and understanding the climate of a recently re-rolled sexual offender prison, Blagden et al., Journal of Sexual Aggression, <http://dx.doi.org/10.1080/13552600.2016.1264633>.

## Digital Forensics

- Blind source computer device identification from recorded VoIP calls for forensic investigation, Jahanirada et al., Forensic Science International, <http://dx.doi.org/10.1016/j.forsciint.2017.01.010>.
- Identification of Mobile Phone and Analysis of Original Version of Videos through a Delay Time Analysis of Sound Signals from Mobile Phone Videos, Hwang & Har, Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13451>.
- Windows 7 Antiforensics: A Review and a Novel Approach, Eterovic-Soric et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13393>.

## Biometrics

- Comparison Among Manual Facial Approximations Conducted by Two Methodological Approaches of Face Prediction, Herrera et al., Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13435>.
- Lift-off: can biometrics bring secure and streamlined air travel?, Mears, Biometric Technology Today, [http://dx.doi.org/10.1016/S0969-4765\(17\)30035-8](http://dx.doi.org/10.1016/S0969-4765(17)30035-8).
- The future of identity verification, Capps, Biometric Technology Today, [http://dx.doi.org/10.1016/S0969-4765\(17\)30034-6](http://dx.doi.org/10.1016/S0969-4765(17)30034-6).

## Statistics

- Bayesian inference and prediction of the Pareto distribution based on ordered ranked set sampling, Mohie El-Din et al., Communications in Statistics – Theory and Methods, <http://dx.doi.org/10.1080/03610926.2015.1124118>.
- Nonparametric Bayesian analysis of the 2 sample problem with censoring, Shang & Reilly, Communications in Statistics – Theory and Methods, <http://dx.doi.org/10.1080/03610926.2017.1288249>.



Variational Inference: A Review for Statisticians, Blei et al., Journal of the American Statistical Association, <http://dx.doi.org/10.1080/01621459.2017.1285773>.

Absence of Statistical and Scientific Ethos: The Common Denominator in Deficient Forensic Practices, Tobin et al., Statistics and Public Policy, <http://dx.doi.org/10.1080/2330443X.2016.1270175>.

## CBRN

Development of haemostatic decontaminants for treatment of wounds contaminated with chemical warfare agents. 3: Evaluation of in vitro topical decontamination efficacy using damaged skin, Lydon et al., Journal of Applied Toxicology, <http://dx.doi.org/10.1002/jat.3446>.

Evaluation of high-order concentration statistics in a dispersing plume, Bisignano et al., Physica A: Statistical Mechanics and its Applications, <http://dx.doi.org/10.1016/j.physa.2017.01.068>.

RSDL decontamination of human skin contaminated with the nerve agent VX, Thorsa et al., Toxicology Letters, <http://dx.doi.org/10.1016/j.toxlet.2017.02.001>.

Secondary Structure Preferences of the Anthrax Toxin Protective Antigen Translocase, Das & Krantz, Journal of Molecular Biology, <http://dx.doi.org/10.1016/j.jmb.2017.01.015>.

Younger rats are more susceptible to the lethal effects of sarin than adult rats: 24 h LC50 for whole-body (10 and 60 min) exposures, Wright et al., Drug and Chemical Toxicology, <http://dx.doi.org/10.1080/01480545.2016.1188304>.

A graphene oxide-based strand displacement amplification platform for ricin detection using aptamer as recognition element, Lia et al., Biosensors and Bioelectronics, <http://dx.doi.org/10.1016/j.bios.2016.12.010>.

Multiplexed efficient on-chip sample preparation and sensitive amplification-free detection of Ebola virus, Dua et al., Biosensors and Bioelectronics, <http://dx.doi.org/10.1016/j.bios.2016.12.071>.

Characterization of Yersinia species by protein profiling using automated microfluidic capillary electrophoresis, Bennett et al., Forensic Science, Medicine, and Pathology, <http://dx.doi.org/10.1007/s12024-016-9824-7>.

## Law

Huntington's Disease and Fitness to Stand Trial, Freckelton, Psychiatry, Psychology and Law, <http://dx.doi.org/10.1080/13218719.2017.1289832>.

Jurors' Perceptions of Evidence: The Relative Influence of DNA and Eyewitness Testimony when Presented by Opposing Parties, Maeder et al., Journal of Police and Criminal Psychology, <http://dx.doi.org/10.1007/s11896-016-9194-9>.

Witness Interview Training: a Field Evaluation, MacDonald et al., Journal of Police and Criminal Psychology, <http://dx.doi.org/10.1007/s11896-016-9197-6>.

The Griffiths Question Map: A Forensic Tool For Expert Witnesses' Assessments of Witnesses and Victims' Statements, Dodier & Denault, Journal of Forensic Sciences, <http://dx.doi.org/10.1111/1556-4029.13477>.

Judging guilt and accuracy: highly confident eyewitnesses are discounted when they provide featural justifications, Dodson & Dobolyi, Psychology, Crime & Law, <http://dx.doi.org/10.1080/1068316X.2017.1284220>.

Do Criminal Court Outcomes Vary by Juvenile Transfer Mechanism? A Multi-Jurisdictional, Multilevel Analysis, Zane, Justice Quarterly, <http://dx.doi.org/10.1080/07418825.2016.1190395>.

Queer Penalties: The Criminal Justice Paradigm in Lesbian and Gay Anti-Violence Politics, Russell, *Critical Criminology*, <http://dx.doi.org/10.1007/s10612-016-9337-4>.

(Re)configuring the criminal justice response to human trafficking: a complex-systems perspective, van der Watt & van der Westhuizen, *Police Practice and Research*, <http://dx.doi.org/10.1080/15614263.2017.1291560>.

Comparing Stakeholders' Expectations of "Good Justice", De Santis & Emery, *Justice System Journal*, <http://dx.doi.org/10.1080/0098261X.2016.1169960>.

Science in the courtroom: is there, and should there, be a better way?, Tompkins

## Policing

Examining Crime on Campus: The Influence of Institutional Factors on Reports of Crime at Colleges and Universities, Jacobsen, *Journal of Criminal Justice Education*, <http://dx.doi.org/10.1080/10511253.2017.1282799>.

Shocking the Conscience: Public Responses to Police Use of the "Mr. Big" Technique, Connors et al., *Journal of Forensic Psychology Research and Practice*, <http://dx.doi.org/10.1080/15228932.2017.1237260>.

Can hot spots policing reduce crime in urban areas? An agent based simulation, Weisburd et al., *Criminology*, <http://dx.doi.org/10.1111/1745-9125.12131>.

Community perceptions of a public sex offender registry introduced in Western Australia, Taylor, *Police Practice and Research*, <http://dx.doi.org/10.1080/15614263.2017.1291572>.

Conceptual divides and practice synergies in law enforcement and public health: some lessons from policing vulnerability in Australia, Bartkowiak-Théron & Nicole L. Asquith, *Policing and Society*, <http://dx.doi.org/10.1080/10439463.2016.1216553>.

Law enforcement and public health as an emerging field, van Dijk & Crofts, *Policing and Society*, <http://dx.doi.org/10.1080/10439463.2016.1219735>.

Policing and public health: Not quite the right analogy, Anderson & Scott, *Policing and Society*, <http://dx.doi.org/10.1080/10439463.2016.1231188>.

Researching law enforcement and public health, Punch & James, *Policing and Society*, <http://dx.doi.org/10.1080/10439463.2016.1205066>.

(Cr)immigrant framing in border areas: decision-making processes of Dutch border police officers, Brouwer et al., *Policing and Society*, <http://dx.doi.org/10.1080/10439463.2017.1288731>.

Improving police interventions during mental health-related encounters: past, present and future, Wood & Watson, *Policing and Society*, <http://dx.doi.org/10.1080/10439463.2016.1219734>.

'I'm glad that was on camera': a case study of police officers' perceptions of cameras, Sandhu, *Policing and Society*, <http://dx.doi.org/10.1080/10439463.2017.1285917>.

Police civilianisation in Canada: a mixed methods investigation, Kiedrowski et al., *Policing and Society*, <http://dx.doi.org/10.1080/10439463.2017.1281925>.

Gathering human intelligence via repeated interviewing: Further empirical tests of the Scharff technique, Oleszkiewicz et al., *Psychology, Crime & Law*, <http://dx.doi.org/10.1080/1068316X.2017.1296150>.

Lilac? 'Ten years of blue nurtured nature', Steyn, *Police Practice and Research*, <http://dx.doi.org/10.1080/15614263.2017.1292745>.

Police officer involved shootings – retrospective study of situational characteristics, Petersson et al., *Police Practice and Research*, <http://dx.doi.org/10.1080/15614263.2017.1291592>.

- Policing with the people in China: implementing the mass line in criminal investigation. A synthesis of the literature, Li & Beckley, *Police Practice and Research*, <http://dx.doi.org/10.1080/15614263.2017.1280673>.
- Violence Prevention and Targeting the Elusive Gang Member, Cheng, *Law & Society Review*, <http://dx.doi.org/10.1111/lasr.12251>.
- A Hunter's Moon: the Effect of Moon Illumination on Outdoor Crime, Stolzenberg et al., *American Journal of Criminal Justice*, <http://dx.doi.org/10.1007/s12103-016-9351-9>.
- The Impact of Police Strength and Arrest Productivity on Fear of Crime and Subjective Assessments of the Police, Hauser & Kleck, *American Journal of Criminal Justice*, <http://dx.doi.org/10.1007/s12103-016-9334-x>.
- The Impact of the Boston Marathon Bombings on Public Willingness to Cooperate with Police, LaFree & Adamczyk, *Police Quarterly*, <http://dx.doi.org/10.1080/07418825.2016.1181780>.
- Active representation and police response to sexual assault complaints, Morabito et al., *Journal of Crime and Justice*, <http://dx.doi.org/10.1080/0735648X.2016.1216730>.
- Exploring the two trigger fingers thesis: racial and ethnic differences in officer involved shootings, Durán & Loza, *Contemporary Justice Review*, <http://dx.doi.org/10.1080/10282580.2016.1262771>.
- Gun crime incident reviews as a strategy for enhancing problem solving and information sharing, Hipple et al., *Journal of Crime and Justice*, <http://dx.doi.org/10.1080/0735648X.2016.1155303>.
- Police perceptions of ADHD in youth interviewees, Cunial & Keibell, *Psychology, Crime & Law*, <http://dx.doi.org/10.1080/1068316X.2017.1284216>.
- The effects of occupational stress on cognitive performance in police officers, Gutshall et al., *Police Practice and Research*, <http://dx.doi.org/10.1080/15614263.2017.1288120>.
- The impact of law enforcement officer perceptions of organizational justice on their attitudes regarding body-worn cameras, Kyle & White, *Journal of Crime and Justice*, <http://dx.doi.org/10.1080/0735648X.2016.1208885>.
- Understanding the culture of craft: lessons from two police agencies, Willis & Mastrofski, *Journal of Crime and Justice*, <http://dx.doi.org/10.1080/0735648X.2016.1174497>.

## Other/General

- A comment on the PCAST report: Skip the "match"/"non-match" stage, Morrison et al., *Forensic Science International*, <http://dx.doi.org/10.1016/j.forsciint.2016.10.018>.
- Diagnosing Crime and Diagnosing Disease: Bias Reduction Strategies in the Forensic and Clinical Sciences, Lockhart & Satya-Murti, *Journal of Forensic Sciences*, <http://dx.doi.org/10.1111/1556-4029.13453>.
- Persia to China: the Silk Road of Restorative Justice I, Braithwaite & Zhang, *Asian Journal of Criminology*, <http://dx.doi.org/10.1007/s11417-017-9244-y>.
- Repositioning the corporate criminal: comparing and contrasting corporate criminal liability in Canada and Finland, Alvesalo-Kuusi et al., *International Journal of Comparative and Applied Criminal Justice*, <http://dx.doi.org/10.1080/01924036.2017.1295396>.
- Crime Data, the Internet, and Free Speech: An Evolving Legal Consciousness, Lageson, *Law & Society Review*, <http://dx.doi.org/10.1111/lasr.12253>.
- Edwin H. Sutherland: An Improbable Criminological Key Thinker—For Critical Criminologists and for Mainstream Criminologists, Friedrichs, <http://dx.doi.org/10.1007/s10612-016-9320-0>.

- Linguistic analysis of chat transcripts from child predator undercover sex stings, Drouin et al., *The Journal of Forensic Psychiatry & Psychology*, <http://dx.doi.org/10.1080/14789949.2017.1291707>.
- Marginalised: An Insider's View of the State, State Policies in New Zealand and Gang Formation, Andrae et al., *Critical Criminology*, <http://dx.doi.org/10.1007/s10612-016-9325-8>.
- Minor Attraction: A Queer Criminological Issue, Walker & Panfil, *Critical Criminology*, <http://dx.doi.org/10.1007/s10612-016-9342-7>.
- O for a Muse of Fire: Rebellion as Sacrament, DeValve *Critical Criminology*, <http://dx.doi.org/10.1007/s10612-016-9321-z>.
- Prison Homicides: A Multidimensional Comparison of Perpetrators and Victims, Reidy & Sorensen, *Journal of Forensic Psychology Research and Practice*, <http://dx.doi.org/10.1080/15228932.2017.1278148>.
- State-Corporate Crime and the Process of Capital Accumulation: Mapping a Global Regime of Permission from Galicia to Morecambe Bay, Bernat & Whyte, *Critical Criminology*, <http://dx.doi.org/10.1007/s10612-016-9340-9>.
- A ten-year experience of physical Intimate partner violence (IPV) in a French forensic unit, Savall et al., *Journal of Forensic and Legal Medicine*, <http://dx.doi.org/10.1016/j.jflm.2016.12.007>.
- Addicted to the 'life of methamphetamine': Perceived barriers to sustained methamphetamine recovery, Alexander et al., *Drugs: Education, Prevention and Policy*, <http://dx.doi.org/10.1080/09687637.2017.1282423>.
- Evaluation of forensic medical history taking from the child in cases of child physical and sexual abuse and neglect, Drummond & Gall, *Journal of Forensic and Legal Medicine*, <http://dx.doi.org/10.1016/j.jflm.2016.12.006>.
- Examining heroin use and prescription opioid misuse among adolescents, Forsyth et al., *Criminal Justice Studies*, <http://www.tandfonline.com/doi/full/10.1080/1478601X.2017.1286836>.
- Examining the impact of organizational and individual characteristics on forensic scientists' job stress and satisfaction, Holt et al., *Journal of Crime and Justice*, <http://dx.doi.org/10.1080/0735648X.2016.1216731>.
- Justice for victims of human trafficking in Australia? Issues associated with Australia's criminal justice response to trafficking in persons, Davy, *Contemporary Justice Review*, <http://dx.doi.org/10.1080/10282580.2016.1262773>.
- Mass shootings and the media: why all events are not created equal, Schildkraut et al., *Journal of Crime and Justice*, <http://dx.doi.org/10.1080/0735648X.2017.1284689>.
- The Social and Geographic Patterns of Sexual Offending: Is Sex Offender Residence Restriction Legislation Practical?, Mogavero & Kennedy, *Victims & Offenders*, <http://dx.doi.org/10.1080/15564886.2015.1084962>.
- TO ME ITS [SIC] REAL LIFE": Secondary Victims of Homicide in Newer Media, Yardley et al., *Victims & Offenders*, <http://dx.doi.org/10.1080/15564886.2015.1105896>.