# Table of Contents

Illicit Drugs – Detection and Analysis................................................................. 2  
Illicit Drugs – Policy................................................................................................. 3  
Opioids and Other Substance Abuse ................................................................. 4  
Forensic Toxicology ............................................................................................... 5  
Racing Chemistry .................................................................................................. 7  
Sports Doping .......................................................................................................... 7  
Trace/Physical Evidence ......................................................................................... 8  
Forensic Mineralogy (incl. Soil Analysis) ............................................................. 8  
Document Examination .......................................................................................... 8  
Forensic Biology .................................................................................................... 9  
Crime Scene ............................................................................................................ 9  
Impression Evidence ............................................................................................... 9  
Ballistics .................................................................................................................. 10  
Fire and Explosion Investigation ....................................................................... 10  
Forensic Engineering .............................................................................................. 10  
Digital Forensics and Cybercrime ....................................................................... 11  
Forensic Entomology .............................................................................................. 11  
Forensic Pathology ................................................................................................. 11  
Forensic Anthropology ......................................................................................... 12  
Forensic Odontology ............................................................................................... 13  
Forensic Psychiatry and Psychology ................................................................. 13  
Biometrics ............................................................................................................... 15  
CBRN ..................................................................................................................... 15  
Cognitive Bias ......................................................................................................... 15  
Criminology ............................................................................................................ 16  
Law .......................................................................................................................... 16  
Policing .................................................................................................................... 17  
Terrorism ................................................................................................................ 17  
Policy, Management and Education .................................................................... 18  
Other ....................................................................................................................... 18
Illicit Drugs – Detection and Analysis

A chemical view of analogue drug laws in Australia: what is structural similarity?,
https://doi.org/10.1080/00450618.2016.1195875.

A Physician’s Attempt to Self-Medicate Bipolar Depression with N,N-Dimethyltryptamine (DMT),

A review of methods for the chemical characterization of cannabis natural products,
https://dx.doi.org/10.1002/jssc.201701003.

Association between Nonmedical Marijuana and Pain Reliever Uses among Individuals Aged 50+,

Cannabis cooked up in GM microfactories,
https://doi.org/10.1016/S0262-4079(17)32096-1.

Characterization of hallucinogenic phenethylamines using high-resolution mass spectrometry for non-targeted screening purposes,
https://dx.doi.org/10.1002/dta.2171.

Distinction of constitutional isomers of mephedrone by chromatographic and spectrometric methods,

Drug analogues and substantial similarity, views of an expert witness,
https://doi.org/10.1080/00450618.2016.1194476.

Drugs and psychoactive substances in the Tiber River,
https://doi.org/10.1080/00450618.2016.1212270.

Ethanol concentration in 56 refillable electronic cigarettes liquid formulations determined by headspace gas chromatography with flame ionization detector (HS-GC-FID),
https://dx.doi.org/10.1002/dta.2193.

Home Manufacture of Drugs: An Online Investigation and a Toxicological Reality Check of Online Discussions on Drug Chemistry,

Identification of illicit drugs in vapes by GC-MS,
https://doi.org/10.1080/00450618.2016.1188985.

Identification of undeclared active pharmaceutical ingredients in counterfeit herbal medicines used as opioid substitution therapy,
https://doi.org/10.1080/00450618.2016.1273387.

Illicit drug profiling: the Australian experience – revisited,

Microbial biotransformation of five pyrrolidinophenone-type psychoactive substances in wastewater and a wastewater isolated Pseudomonas putida strain,
https://dx.doi.org/10.1002/dta.2165.

Mother of Berries, ACDC, or Chocolope: Examination of the Strains Used by Medical Cannabis Patients in New England,

Point-of-Use Detection of Amphetamine-Type Stimulants with Host-Molecule-Functionalized Organic Transistors,
https://doi.org/10.1016/j.chempr.2017.08.015.

Prevalence and psycho-social determinants of Kratom (Mitragyna speciosa) juice cocktail consumption among youth in Surat Thani Province, Thailand,

Profiling of heroin and assignment of provenance by $^{87}\text{Sr}/^{86}\text{Sr}$ isotope ratio analysis,

Psychoactive drugs: occurrence in aquatic environment, analytical methods, and ecotoxicity—a review,
https://doi.org/10.1007/s11356-017-0170-4.

Quantification of Morphine, Codeine, and Thebaine in Home-Brewed Poppy Seed Tea by LC-MS/MS,
https://dx.doi.org/10.1111/1556-4029.13664.

Rapid classification and quantification of cocaine in seized powders with ATR-FTIR and chemometrics,
https://dx.doi.org/10.1002/dta.2149.
Return of the lysergamides. Part III: Analytical characterization of N6-ethyl-6-norlysergic acid diethylamide (ETH-LAD) and 1-propionyl ETH-LAD (1P–ETH-LAD), https://dx.doi.org/10.1002/dta.2196.


SERS, Raman, and DFT analyses of fentanyl and carfentanil: Toward detection of trace samples, https://dx.doi.org/10.1002/jrs.5220.

Solid-phase extraction followed by liquid chromatography-high resolution mass spectrometry to determine synthetic cathinones in different types of environmental water samples, https://doi.org/10.1016/j.chroma.2017.10.002.


The role of diode array ultraviolet detection for the identification of synthetic cathinones, https://dx.doi.org/10.1002/dta.2163.


Illicit Drugs – Policy


Marijuana legalization: Does it reduce opioid overdoses?, https://dx.doi.org/10.1002/adaw.31758.

The Internet and lifestyle drugs: an analysis of demographic characteristics, methods, and motives of online purchasers of illicit lifestyle drugs in the Netherlands, https://doi.org/10.1080/09687637.2017.1369936.


What that DEA law was really about, https://dx.doi.org/10.1002/adaw.31756.
Opioids and Other Substance Abuse

Age of initiation, psychopathology, and other substance use are associated with time to use disorder diagnosis in persons using opioids nonmedically. https://doi.org/10.1080/08897077.2017.1356791.

As illicit opioids replace Rx opioids in OD deaths, CDC focus shifts, https://dx.doi.org/10.1002/adaw.31744.


Associations between energy drink consumption and alcohol use among college students, https://doi.org/10.1080/14659891.2017.1378737.


“I feel like I've hit the bottom and have no idea what to do”: Supportive social networking on Reddit for individuals with a desire to quit cannabis use, https://doi.org/10.1080/08897077.2017.1354956.


Marijuana legalization: Does it reduce opioid overdoses?, https://dx.doi.org/10.1002/adaw.31758.


Pharmaceutical opioid use and harm in Australia: The need for proactive and preventative responses, [https://dx.doi.org/10.1111/dar.12617](https://dx.doi.org/10.1111/dar.12617).


Prevalence of Polysubstance Abuse and Dual Diagnosis in Patients Admitted to Alcohol Rehabilitation Units for Alcohol-Related Problems in Italy: Changes in 15 Years, [https://doi.org/10.1093/alcalc/agx061](https://doi.org/10.1093/alcalc/agx061).


Study shows that heroin tops the list of first opioid of use, [https://dx.doi.org/10.1002/adaw.31736](https://dx.doi.org/10.1002/adaw.31736).

The denial of the association between youth cannabis and opiate use: A “Split Brain Syndrome”? [https://doi.org/10.1080/08897077.2017.1380456](https://doi.org/10.1080/08897077.2017.1380456).


What did you expect?: The interaction between cigarette and blunt vs. non-blunt marijuana use among African American young adults, [https://doi.org/10.1080/14659891.2017.1283452](https://doi.org/10.1080/14659891.2017.1283452).


**Forensic Toxicology**

A 10 year post-mortem analysis of keratin matrix in Perugia (Italy): focus on cocaine involvement in several types of death, [https://doi.org/10.1080/00450618.2016.1264479](https://doi.org/10.1080/00450618.2016.1264479).

A simple validated multi-method for detecting drugs in oral fluid by Ultra Performance Liquid Chromatography-Tandem Mass Spectrometry (UPLC-MS/MS), [https://dx.doi.org/10.1002/dta.2325](https://dx.doi.org/10.1002/dta.2325).

A twin purification/enrichment procedure based on two versatile solid/liquid extracting agents for efficient uptake of ultra-trace levels of lorazepam and clonazepam from complex bio-matrices, [https://doi.org/10.1016/j.chroma.2017.09.045](https://doi.org/10.1016/j.chroma.2017.09.045).


Acute side effects after consumption of the new synthetic cannabinoids AB-CHMINACA and MDMB-CHMICA, [https://doi.org/10.1080/15563650.2017.1393082](https://doi.org/10.1080/15563650.2017.1393082).

An analysis of a suicide case by ingestion of carbofuran, [https://doi.org/10.1080/00450618.2016.1177592](https://doi.org/10.1080/00450618.2016.1177592).

Analysis of drugs of abuse in Cerumen - correlation of postmortem analysis results with those for blood, urine and hair, [https://dx.doi.org/10.1002/dta.2177](https://dx.doi.org/10.1002/dta.2177).


Distribution pattern of ethyl glucuronide and caffeine concentrations over the scalp of a single person in a forensic context, https://dx.doi.org/10.1002/dta.2186.

Enantioselective analysis of citalopram and demethylcitalopram in human whole blood by chiral LC–MS/MS and application in forensic cases, https://dx.doi.org/10.1002/dta.2173.


Forensic Toxicology Perspectives of Methadone-associated Deaths in Tehran, Iran, a 7-year Overview, https://dx.doi.org/10.1111/bcpt.12930.


Ketamine and norketamine stability in whole blood at ambient and 4°C conditions, https://dx.doi.org/10.1002/bmc.4104.


Mortality risk in a sample of emergency department patients who use cocaine with alcohol and/or cannabis, https://doi.org/10.1080/08897077.2017.1389799.

Myoglobinemia markers with potential applications in forensic sample analysis: lipid markers in myoglobinemia for postmortem blood, https://doi.org/10.1007/s00414-017-1657-8.


Postmortem concentration distribution in fatal cases involving the synthetic opioid U-47700, https://doi.org/10.1007/s00414-017-1593-7.

Sample preparation method for the combined extraction of ethyl glucuronide and drugs of abuse in hair, [https://dx.doi.org/10.1002/dta.2314](https://dx.doi.org/10.1002/dta.2314).

Semi-quantitative Analysis of Tramadol, Dextromethorphan and Metabolites in Decomposed Skeletal Tissues by Ultra Performance Liquid Chromatography Quadrupole Time of Flight Mass Spectrometry (UPLC-qTOF-MS), [https://dx.doi.org/10.1002/dta.2327](https://dx.doi.org/10.1002/dta.2327).

Simultaneous Quantitation of Methamphetamine, Ketamine, Opiates and their Metabolites in Urine by SPE and LC–MS-MS, [https://doi.org/10.1093/jat/bkx057](https://doi.org/10.1093/jat/bkx057).

Swimming in a sea of drugs, [https://dx.doi.org/10.15252/embr.201745015](https://dx.doi.org/10.15252/embr.201745015).


Trans-generational neurochemical modulation of methamphetamine in the adult brain of the Wistar rat, [https://doi.org/10.1007/s00204-017-1969-y](https://doi.org/10.1007/s00204-017-1969-y).

Two Hospitalizations and One Death After Exposure to Ortho-Fluorofentanyl, [https://doi.org/10.1093/jat/bkx050](https://doi.org/10.1093/jat/bkx050).

UPLC-HR-MS/MS-based determination study on the metabolism of four synthetic cannabinoids, ADB-FUBICA, AB-FUBICA, AB-BICA and ADB-BICA, by human liver microsomes, [https://dx.doi.org/10.1002/bmc.4113](https://dx.doi.org/10.1002/bmc.4113).


**Racing Chemistry**

A novel and innovative hair test to determine glucocorticoid levels in racing camels for use in assessment of doping, health, and disease, [https://dx.doi.org/10.1002/dta.2311](https://dx.doi.org/10.1002/dta.2311).

Identification of gonadotropin-releasing hormone metabolites in greyhound urine, [https://dx.doi.org/10.1002/dta.2164](https://dx.doi.org/10.1002/dta.2164).

**Sports Doping**

Detection and in vitro metabolism of the confiscated peptides BPC 157 and MGF R23H, [https://dx.doi.org/10.1002/dta.2152](https://dx.doi.org/10.1002/dta.2152).

Perceived source of anabolic-androgenic steroids and the construal of users’ personality, [https://doi.org/10.1080/14659891.2016.1271038](https://doi.org/10.1080/14659891.2016.1271038).

Temporal changes in physiology and haematology in response to high- and micro-doses of recombinant human erythropoietin, [https://dx.doi.org/10.1002/dta.2176](https://dx.doi.org/10.1002/dta.2176).

Fast IRMS screening of pseudoendogenous steroids in doping analyses, [https://dx.doi.org/10.1002/dta.2321](https://dx.doi.org/10.1002/dta.2321).

Implementation of AICAR analysis by GC-C-IRMS for anti-doping purposes, [https://dx.doi.org/10.1002/dta.2322](https://dx.doi.org/10.1002/dta.2322).

Loop-mediated isothermal amplification (LAMP) as an alternative to PCR: A rapid on-site detection of gene doping, [https://dx.doi.org/10.1002/dta.2324](https://dx.doi.org/10.1002/dta.2324).

Immunomagnetic beads-based isolation of erythropoietins from urine and blood for sports anti-doping control, https://dx.doi.org/10.1002/dta.2320.

Poly(norepinephrine)-coated open tubular column for the separation of proteins and recombination human erythropoietin by capillary electrochromatography, https://dx.doi.org/10.1002/jssc.201700720.


Trace/Physical Evidence


Chemiresistor gas sensor based on sulfonated dye-doped modified conducting polypyrrole film for high sensitive detection of 2,4,6-trinitrotoluene in air, https://doi.org/10.1016/j.snb.2017.08.093.

Label-free peptide aptamer based impedimetric biosensor for highly sensitive detection of TNT with a ternary assembly layer, https://doi.org/10.1007/s00216-017-0576-3.


Forensic Mineralogy (incl. Soil Analysis)


Document Examination

Forensic Biology


FlexPlex27—highly multiplexed rapid DNA identification for law enforcement, kinship, and military applications, https://doi.org/10.1007/s00414-017-1567-9.


Genetic characterization of an X-STR decaplex system in the State of Mato Grosso, Brazil: distribution, forensic efficiency and population structure, https://doi.org/10.1007/s00414-017-1578-6.


Genetic variation of 17 autosomal STR loci in the Dong ethnic minority from Guangxi Zhuang Autonomous Region, South China, https://doi.org/10.1007/s00414-017-1576-8.

Likelihood ratio formulae for disputed parentage when the product of conception is trisomic, https://doi.org/10.1007/s00414-017-1573-y.


Crime Scene


Impression Evidence

Fingerprints


Ballistics


Fire and Explosion Investigation


Using the microstructure and mechanical behavior of steel materials to develop a new fire investigation technology, https://dx.doi.org/10.1002/fam.2438.

Forensic Engineering

Application of gas chromatography/mass spectrometry (GC/MS) and pyrolysis-gas chromatography/mass spectrometry (Py-GC/MS) in failure analysis in the automotive industry, https://doi.org/10.1016/j.engfailanal.2017.06.033.


Digital Forensics and Cybercrime


Forensic Entomology

Optimization of total vaporization solid-phase microextraction (TV-SPME) for the determination of lipid profiles of Phormia regina, a forensically important blow fly species, https://doi.org/10.1007/s00216-017-0573-6.

Forensic Pathology


Are animal models predictive for human postmortem muscle protein degradation?, https://doi.org/10.1007/s00414-017-1643-1.


Diatoms in drowning cases in forensic veterinary context: a preliminary study, https://doi.org/10.1007/s00414-017-1565-y.

EnVision™ FLEX improves the detectability of depletions of myoglobin and troponin T in forensic cases of myocardial ischemia/infarction, https://doi.org/10.1007/s00414-017-1575-9.

Expression times for hsp27 and hsp70 as an indicator of thermal stress during death due to fire, https://doi.org/10.1007/s00414-017-1566-x.


Frequency and influencing factors of cardiopulmonary resuscitation-related injuries during implementation of the American Heart Association 2010 Guidelines: a retrospective study based on autopsy and postmortem computed tomography, https://doi.org/10.1007/s00414-017-1673-8.


Postmortem evaluation of cholesterol, triglyceride, and apolipoprotein levels, https://doi.org/10.1007/s00414-017-1669-4.


Suicide by the intraoral blast of firecrackers — experimental simulation using a skull simulant model, https://doi.org/10.1007/s00414-017-1580-z.

Suicide with two makes of captive-bolt guns (livestock stunners) fired simultaneously to the forehead, https://doi.org/10.1007/s00414-017-1539-0.


The pseudo-SAH sign: an imaging pitfall in postmortem computed tomography, https://doi.org/10.1007/s00414-017-1651-1.


Forensic Anthropology


Elliptical Fourier analysis: fundamentals, applications, and value for forensic anthropology, https://doi.org/10.1007/s00414-017-1555-0.

Improved image registration in skull–face overlay using expert knowledge, https://doi.org/10.1007/s13748-017-0124-6.


Sex estimation using computed tomography of the mandible, https://doi.org/10.1007/s00414-017-1554-1.

Forensic Odontology

Sex estimation using computed tomography of the mandible, https://doi.org/10.1007/s00414-017-1554-1.

Forensic Psychiatry and Psychology


Assessing threats of violence: Professional skill or common sense?, https://dx.doi.org/10.1002/jip.1486.


Characteristics of alleged homicide offenders with and without schizophrenia in Sichuan, China, https://dx.doi.org/10.1002/cbm.2054.


Pathways in the offending process of sex offenders who target marginalised victims, https://dx.doi.org/10.1002/jip.1481.


The relationship between attachment dimensions and emotion regulation in individuals who have committed sexual crimes, https://doi.org/10.1080/13552600.2017.1391630.


Witnesses' failure to detect covert manipulations in their written statements, https://dx.doi.org/10.1002/jip.1479.
Biometrics


CBRN


Comparison of four different fuller's earth formulations in skin decontamination, https://dx.doi.org/10.1002/jat.3506.


Nuclear war and public health: rebalancing priorities and global health leadership, https://doi.org/10.1016/S0140-6736(17)32605-3.

Proteome Profile of Different Rat Brain Regions After Sarin Intoxication, https://doi.org/10.1093/toxsci/kfx162.


Cognitive Bias

What is implicit bias?, https://dx.doi.org/10.1111/phc3.12437.
Criminology


Law


Criminal defense and judicial sentencing in China’s death penalty cases, https://doi.org/10.1080/1068316X.2017.1390114.

Effects of judicial instructions and juror characteristics on interpretations of beyond reasonable doubt, https://doi.org/10.1080/1068316X.2017.1394461.


Reasons for South Korean attitudes towards the death penalty: exploring the nexus between strong public support and history of misapplication, https://doi.org/10.1080/01924036.2017.1391107.

### Policing

Cops on camera, [https://doi.org/10.1016/S0262-4079(17)32063-8](https://doi.org/10.1016/S0262-4079(17)32063-8).


Examining different types of comparison questions in a field study of CQT polygraph technique: Theoretical and practical implications, [https://dx.doi.org/10.1002/jip.1475](https://dx.doi.org/10.1002/jip.1475).

Officer Race, Role Orientations, and Cynicism toward Citizens, [https://doi.org/10.1080/07418825.2017.1380838](https://doi.org/10.1080/07418825.2017.1380838).

Organizational climate and investigation performance in the Norwegian police: A qualitative study, [https://dx.doi.org/10.1002/jip.1474](https://dx.doi.org/10.1002/jip.1474).


Police officers' beliefs about, and use of, cues to deception, [https://dx.doi.org/10.1002/jip.1478](https://dx.doi.org/10.1002/jip.1478).


The dilemma of ‘racial profiling’: an abolitionist police history, [https://doi.org/10.1080/10282580.2017.1383773](https://doi.org/10.1080/10282580.2017.1383773).

The elimination-plus lineup: Testing a modified lineup procedure with confidence, [https://dx.doi.org/10.1002/jip.1477](https://dx.doi.org/10.1002/jip.1477).


### Terrorism

Autologistic models for benchmark risk or vulnerability assessment of urban terrorism outcomes, [https://dx.doi.org/10.1111/rssa.12323](https://dx.doi.org/10.1111/rssa.12323).

Lone Actor Terrorist Attack Planning and Preparation: A Data-Driven Analysis, [https://dx.doi.org/10.1111/1556-4029.13676](https://dx.doi.org/10.1111/1556-4029.13676).

Policy, Management and Education


Room for All? Comparing Criminology and Sociology Completion Rates Across Sex, Race, and Degree Level, https://doi.org/10.1080/10511253.2017.1395058.

Other


Marker discovery in volatolomics based on systematic alignment of GC-MS signals: Application to food authentication, https://doi.org/10.1016/j.aca.2017.08.019.


Book Reviews


