

MICROGRAM BULLETIN

The U.S. Attorney General has determined that the publication of this periodical is necessary in the transaction of the public business required by the Department of Justice. Information, instruction, and disclaimers can be found at www.dea.gov.

SELECTED REFERENCES

The Selected References section is a compilation of recent publications of presumed interest to forensic chemists. Unless otherwise stated, all listed citations are published in English. Abbreviated mailing address information duplicates that which is provided by the abstracting service. Patents and Proceedings are reported only by their Chemical Abstracts citation number. For full text copies of any of the articles listed, you may email the DEA Library at dea.library@usdoj.gov.

1. Chen KF, Lee H, Liu JT, Lee HA, Lin CH. **A microwave-assisted fluorescent labeling method for the separation and detection of amphetamine-like designer drugs by capillary electrophoresis.** Forensic Science International 2013;228(1-3):95-99. [Editor's Notes: The microwave-assisted fluorescent labeling of the 2, 3, and 4-chloroamphetamine and 2, 3, and 4-fluoroamphetamine with fluorescein isothiocyanate isomer I (FITC) is described. A CE/LIF method for the separation and detection of these compounds is also describe and compared to traditional CE and LC/MS methods of analysis. Contact: Department of Chemistry, 88 Sec. 4, National Taiwan Normal University, Taipei, Taiwan.]
 2. Kavanagh P, O'Brien J, Fox J, O'Donnell C, Christie R, Power JD, McDermott SD. **The analysis of substituted cathinones. Part 3. Synthesis and characterisation of 2,3-methylenedioxy substituted cathinones.** Forensic Science International 2012;216(1-3):19-28. [Editor's Notes: Presents title study. Contact: Department of Pharmacology and Therapeutics, School of Medicine, Trinity Centre for Health Science, St. James Hospital, Dublin, Ireland.]
 3. Power JD, Clarke K, McDermott SD, McGlynn P, Barry M, White C, O'Brien J, Kavanagh P. **The identification of 4-methylamphetamine and its synthesis by-products in forensic samples.** Forensic Science International 2013;228(1-3): 115-131. [Editor's Notes: Presents title study. Contact: Forensic Science Laboratory, Dublin, Ireland.]
 4. Roda G, Liberti V, Arnoldi S, Argo A, Rusconi C, Suardi S, Gambaro V. **Capillary electrophoretic and extraction conditions for the analysis of Catha edulis active principles.** Forensic Science International 2013;228(1-3):154-159. [Editor's Notes: Presents title study. Contact: Dipartimento di Scienze Farmaceutiche, Universita degli Studi di Milano, Milan 20133, Italy.]
- Additional References of Possible Interest:**
1. Al-Hetlani E. **Forensic drug analysis and microfluidics.** Electrophoresis 2013;34(9-10): 1262-1272. [Editor's Notes: Presents title review. Contact: Kuwait University, Department of Chemistry, Safat, Kuwait.]
 2. Bidlingmaier M. **New detection methods of growth hormone and growth factors.** Endocrine Development 2012;23:52-59. [Editor's Notes: Presents title study. Contact: Endocrine Research Laboratories, Medizinische Klinik und Poliklinik IV, Ludwig Maximilians University, Munich, Germany.]
 3. Ferris TJ, Went MJ. **Synthesis, characterisation and detection of γ -hydroxybutyrate salts.** Forensic Science International 2012;216(1-3):158-162. [Editor's Notes: The sodium, potassium, magnesium, and calcium salts of GHB were synthesized and characterized by FTIR, XRD, and elemental analysis. Contact: School of Physical Sciences, University of Kent, Canterbury, United Kingdom.]
 4. Gil D, Adamowicz P, Skulska A, Tokarczyk B, Stanaszek R. **Analysis of 4-MEC in biological and non-biological material - Three case reports.** [Editor's Notes: Presents title study. Contact: Institute of Forensic Research, Westerplatte 9, 31-033 Krakow, Poland.]
 5. Maurer HH. **What is the future of (ultra) high performance liquid chromatography coupled to low and high resolution mass spectrometry for toxicological drug screening?** Journal of Chromatography, A 2013;1292:19-24. [Editor's Notes: This paper reviews LC-MS approaches for toxicological drug screening using ultra-high performance liquid chromatography coupled to low and high resolution mass spectrometry published since 2010. Contact: Department of Experimental and Clinical Toxicology, Institute of Experimental and Clinical Pharmacology and Toxicology, Saarland University, Homburg (Saar) D-66421, Germany.]
 6. Lloyd A, Russell M, Blanes L, Doble P, Roux C. **Lab-on-a-chip screening of methamphetamine and pseudoephedrine in samples from clandestine laboratories.** Forensic Science International 2013;228(1-3):8-14. [Editor's Notes: Presents title study. Contact: Centre for Forensic Science, Sydney, University of Technology, Broadway NSW 2007, Australia.]
 7. Musenga A, Cowan DA. **Use of ultra-high pressure liquid chromatography coupled to high resolution mass spectrometry for fast screening in high throughput doping control.** Journal of Chromatography, A 2013;1288:82-95. [Editor's Notes: Presents title study. Contact: Drug Control Centre, King's College London, London SE1 9NH, United Kingdom.]
 8. Petersen IN, Kristensen JL, Tortzen C, Breindahl T, Pedersen DS. **Synthesis and stability study of a new major metabolite of γ -hydroxybutyric acid.** Beilstein Journal of Organic Chemistry 2013;9(72):641-646. [Editor's Notes: Presents title study. Contact: Department of Drug Design and Pharmacology, University of Copenhagen, Copenhagen DK-2100, Denmark.]

9. Vidal DTR, Augelli MA, Lucio do Lago C. **Determination of sildenafil and vardenafil by capillary zone electrophoresis using capacitively coupled contactless conductivity detection.** Analytical Methods 2013;5(8):2041-2045. [Editor's Notes: Presents title study. Contact: Departamento de Quimica Fundamental, Universidade de Sao Paulo, Sao Paulo, Brazil.]

THE DEA STATE AND LOCAL FORENSIC CHEMISTS SEMINAR SCHEDULE

The schedule for the DEA State and Local Forensic Chemists Seminar is as follows:

September 16 - 20, 2013

November 4 - 8, 2013

The school is open only to forensic chemists working for law enforcement agencies. It is intended for chemists who have completed their agency's internal training program and have also been working on the bench for at least one year. There is no tuition charge. The course is held at the Hyatt Place Dulles North Hotel in Sterling, Virginia (near the Washington/Dulles International Airport). A copy of the application form is reproduced on the last page of this issue of Microgram Bulletin. Completed applications should be mailed to the Special Testing and Research Laboratory at 22624 Dulles Summit Court, Dulles, VA 20166. For additional information, send an email to: DEA-Forensic.Chemist.Seminar@usdoj.gov.

DEA State and Local Forensic Chemist Seminar Application

Name: (PRINT NAME EXACTLY AS IT IS TO APPEAR ON CERTIFICATE)	Title:
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Employer:

Your Office Mailing Address (include city, state, and zip code):	Length of Service:
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Business Telephone: () -	Business Fax: () -	Date of Application:
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Email Address:

Education

College or University	Degree	Major

Please Check Which Techniques or Equipment Are Used in Your Laboratory

<input type="checkbox"/> Color Tests	<input type="checkbox"/> UV
<input type="checkbox"/> Column Chromatography	<input type="checkbox"/> IR
<input type="checkbox"/> Microcrystal Tests	<input type="checkbox"/> CE
<input type="checkbox"/> Thin Layer Chromatography	<input type="checkbox"/> GC/MS
<input type="checkbox"/> GC	<input type="checkbox"/> Other (please specify)
<input type="checkbox"/> HPLC	<input type="checkbox"/> Other (please specify)

Indicate Analytical Problem(s) Nominee Would Like to Have Covered:

Choice of Seminar Dates:
1st Choice: _____ 2nd Choice: _____

Laboratory Chief/Director:

Printed Name: _____ Signature: _____

Title: _____ Date: _____

Phone: _____