

# MICROGRAM BULLETIN

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## 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](mailto:dea.library@usdoj.gov).

1. Chittrakarn S, Penjamras P, Keawpradub N. **Quantitative analysis of mitragynine, codeine, caffeine, chlorpheniramine and phenylephrine in a kratom (*Mitragyna speciosa* Korth.) cocktail using high-performance liquid chromatography.** *Forensic Science International* 2012; 217(1-3):81-86. [Editor's Notes: Presents title study. Contact: Department of Pharmacology, Faculty of Science, Prince of Songkla University, Songkhla, Thailand 90112.]
2. Davis S, Rands-Trevor K, Boyd S, Ediris-inghe M. **The characterisation of two halogenated cathinone analogues: 3,5-Difluoromethcathinone and 3,5-dichloromethcathinone.** *Forensic Science International* 2012;217(1-3): 139-145. [Editor's Notes: Presents title study. Contact: Queensland Health Forensic and Scientific Services, Brisbane, Queensland, Australia.]
3. De Paoli G, Brandt SD, Wallach J, Archer RP, Pounder DJ. **From the street to the laboratory: Analytical profiles of methoxetamine, 3-methoxyeticyclidine and 3-methoxyphenacyclidine and their determination in three biological matrices.** *Journal of Analytical Toxicology* 2013;37(5):277-283. [Editor's Notes: Presents title study. Contact: Centre for Forensic and Legal Medicine, University of Dundee, Small's Wynd, Dundee DD1 4HN, United Kingdom.]
4. Gray N, Heaton J, Musenga A, Cowan DA, Plumb RS, Smith NW. **Comparison of reversed-phase and hydrophilic interaction liquid chromatography for the quantification of ephedrine using medium-resolution accurate mass spectrometry.** *Journal of Chromatography A* 2013;1289:37-46. [Editor's Notes: Presents title study. Contact: Waters Centre for Innovation in Separation Science, Analytical and Environmental Science Division, School of Biomedical Sciences, King's College London, London, United Kingdom.]
5. Plotka JM, Biziuk M, Morrison C. **Common methods for the chiral determination of amphetamine and related compounds II. Capillary electrophoresis and nuclear magnetic resonance.** *TrAC, Trends in Analytical Chemistry* 2012;31:23-37. [Editor's Notes: Presents title review. Contact: Department of Analytical Chemistry, Chemical Faculty, Gdansk University of Technology, 80-233 Gdansk, Poland.]
6. Westphal F, Junge T, Girreser U, Greibl W, Doering C. **Mass, NMR and IR spectroscopic characterization of pentedrone and pentylone and identification of their isocathinone by-products.** *Forensic Science International* 2012; 217(1-3):157-167. [Editor's Notes: Presents title study. Contact: Section Narcotics/Toxicology, State Bureau of Criminal Investigation Schleswig-Holstein, 24116 Kiel, Germany.]
2. Emerson B, Durham B, Gidden J, Lay JO Jr. **Gas chromatography-mass spectrometry of JWH-018 metabolites in urine samples with direct comparison to analytical standards.** *Forensic Science International* 2013;229(1-3):1-6. [Editor's Notes: Presents title study. Contact: Department of Chemistry, University of Arkansas, Fayetteville, AR 72701, USA.]
3. Grigoryev A, Kavanagh P, Melnik A, Savchuk S, Simonov A. **Gas and liquid chromatography-mass spectrometry detection of the urinary metabolites of UR-144 and its major pyrolysis product.** *Journal of Analytical Toxicology* 2013; 37(5):265-276. [Editor's Notes: Presents title study. Contact: Bureau of Forensic-Medical Expertise's, Forensic-Chemical Division, Belgorod, Russia.]
4. Macher AM, Penders TM. **False-positive phenacyclidine immunoassay results caused by 3,4-methylenedioxypyrovalerone (MDPV).** *Drug Testing and Analysis* 2013(2);130-132. [Editor's Notes: Presents title study. Contact: Department of Psychiatric Medicine, Brody School of Medicine, East Carolina University, Greenville, NC, USA.]
5. Macher AM, Penders TM. **False-positive phenacyclidine immunoassay results caused by 3,4-methylenedioxypyrovalerone (MDPV).** *Drug Testing and Analysis* 2013(2);130-132. [Editor's Notes: Presents title study. Contact: Department of Psychiatric Medicine, Brody School of Medicine, East Carolina University, Greenville, NC, USA.]
6. Nakanishi K, Miki A, Zaitsu K, Kamata H, Shima N, Kamata T, Katagi M, Tatsuno M, Tsuchihashi H, Suzuki K. **Cross-reactivities of various phenethylamine-type designer drugs to immunoassays for amphetamines, with special attention to the evaluation of the one-step urine drug test Instant-View, and the Emit assays for use in drug enforcement.** *Forensic Science*

International 2012;217(1-3):174-181. [Editor's Notes: Presents title study. Contact: Osaka Prefectural Police Headquarters, Forensic Science Laboratory, 1-3-18 Hommachi, Chuo-ward, Osaka, Japan.]

7. Schaffer M, Groger T, Putz M, Zimmermann R. **Forensic profiling of sassafra oils based on comprehensive two-dimensional gas chromatography.** Forensic Science International 2013;229(1-3):108-115. [Editor's Notes: Presents title study. Contact: Comprehensive Molecular Analytics, Helmholtz Zentrum Munchen, German Research Center for Environmental Health, Ingolstadter Landstr. 1, Neuherberg, Germany.]

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## 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](mailto: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

Color Tests	UV
Column Chromatography	IR
Microcrystal Tests	CE
Thin Layer Chromatography	GC/MS
GC	Other (please specify)
HPLC	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: \_\_\_\_\_