

**Selected Articles on the Analysis of Drugs of Abuse in Biological Specimens
(July – December 2021)**

Pharmacological and metabolic characterization of the novel synthetic opioid broprhine and its detection in routine casework. K.E. Grafinger, M. Wilde, L. Otte, V. Auwärter, *Forensic Science International*, **2021**, 327, 110989. <https://doi.org/10.1016/j.forsciint.2021.110989>.

Metonitazene in the United States—Forensic toxicology assessment of a potent new synthetic opioid using liquid chromatography mass spectrometry, A.J. Krotulski, D.M. Papsun, S.E. Walton, B.K. Logan, *Drug Testing and Analysis*, **2021**, 13, 1697–711. <https://doi.org/10.1002/dta.3115>.

Quantification and distribution of 4-fluoroisobutyl fentanyl (4-FiBF) in postmortem biological samples using UHPLC–QqQ–MS/MS. M. Zawadzki, O. Wachetko, A. Chłopaś-Konowalek, P. Szpot, *Forensic Toxicology*, **2021**, 39, 451–63. <https://doi.org/10.1007/s11419-021-00584-9>.

Circumstances, postmortem findings, blood concentrations and metabolism in a series of methoxyacetylfentanyl-related deaths. R. Kronstrand, A. Åstrand, S. Watanabe, H. Gréen, S. Vikingsson, *Journal of Analytical Toxicology*, **2021**, 45, 760–71. <https://doi.org/10.1093/jat/bkab053>.

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New synthetic cannabinoids carrying a cyclobutyl methyl side chain: Human Phase I metabolism and data on human cannabinoid receptor 1 binding and activation of Cumyl-CBMICA and Cumyl-CBMINACA. B. Haschimi, K.E. Grafinger, B. Pulver, E. Psychou, S. Halter, L.M. Huppertz, F. Westphal, M. Pütz, V. Auwärter, *Drug Testing and Analysis*, **2021**, 13, 1499–1515. <https://doi.org/10.1002/dta.3038>.

Quantification of major metabolites of AB-FUBINACA in solid tissues obtained from an abuser. K. Minakata, K. Hasegawa, H. Nozawa, I. Yamagishi, M. Suzuki, T. Kitamoto, O. Suzuki, K. Watanabe, *Journal of Analytical Toxicology*, **2021**, 45, 555–65. <https://doi.org/10.1093/jat/bkaa120>.

Fatal *N*-ethylhexedrone intoxication. E. Domagalska, L. Banaszkiwicz, M.K. Woźniak, M. Kata, B. Szpiech, and M. Kaliszan, *Journal of Analytical Toxicology*, **2021**, 45, e1–e6. <https://doi.org/10.1093/jat/bkaa159>.

Detection of 4-FMC, 4-MeO- α -PVP, 4-F- α -PVP, and PV8 in blood in a forensic case using liquid chromatography–electrospray ionization linear ion trap mass spectrometry. A. Mochizuki, N. Adachi, H. Shoji, *Forensic Science International*, **2021**, 325, 110888. <https://doi.org/10.1016/j.forsciint.2021.110888>.

A fluorine turns a medicinal benzodiazepine into NPS: the case of flualprazolam. P-S.A. Ntoupa, I.I. Papoutsis, A.A. Dona, C.A. Spiliopoulou & S.A. Athanaselis, *Forensic Toxicology*, **2021**, 39, 368–76. <https://doi.org/10.1007/s11419-020-00565-4>.

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Detection of γ -hydroxybutyric acid-related acids in blood plasma and urine: Extending the detection window of an exogenous γ -hydroxybutyric acid intake? T. Küting, B. Schneider, A. Heidbreder, M. Krämer, P. Jarsiah, B. Madea, C. Hess, *Drug Testing and Analysis*, **2021**, 13, 1635–49. <https://doi.org/10.1002/dta.3097>.

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Selected Articles on the Analysis of Drugs of Abuse in Seized Materials
(July – December 2021)

Analysis of Google Trends to monitor new psychoactive substance. Is there an added value? F.K. Batistic, D. Rhumorbarbe, E. Lefrancois, J. Tettey, M. Raitelhuber, Q. Rossy, M. Morelato, *Forensic Science International*, **2021**, 326, 110918. <https://doi.org/10.1016/j.forsciint.2021.110918>.

Analytical characterization of “etonitazepyne,” a new pyrrolidinyl-containing 2-benzylbenzimidazole opioid sold online. P. Blanckaert, M. Balcaen, C. Vanhee, M. Risseeuw, M. Canfyn, B. Desmedt, S. Van Calenbergh, E. Deconinck, *Drug Testing and Analysis*, **2021**, 13, 1627–34. <https://doi.org/10.1002/dta.3113>.

Fantasy islands - The emergence of NMP in GBL-containing liquids in New Zealand. B. Bogun, M. Campbell, B. Marr, A. Larsen, L. Philip, C. Johnson, *Forensic Science International*, **2021**, 329, 111093. <https://doi.org/10.1016/j.forsciint.2021.111093>.

Fatal intoxication related to two new arylcyclohexylamine derivatives (2F-DCK and 3-MeO-PCE). T. Gicquel, C. Richeval, V. Mesli, A. Gish, F. Hakim, R. Pelletier, R. Cornez, A. Balgairies, D. Allorge, J.M Gaulier, *Forensic Science International*, **2021**, 324, 110852. <https://doi.org/10.1016/j.forsciint.2021.110852>.

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Electrochemical profiling and liquid chromatography–mass spectrometry characterization of synthetic cathinones: From methodology to detection in forensic samples. J. Schram, M. Parrilla, N. Slegers, F. Van Durme, J. van den Berg, A.L.N. van Nuijs, K. De Wael, *Drug Testing and Analysis*, **2021**, 13, 1282–94. <https://doi.org/10.1002/dta.3018>.

Development and evaluation of a synthetic cathinone targeted gas chromatography mass spectrometry (GC-MS) method. E. Sisco, A. Burns, A.S. Moorthy, *Journal of Forensic Sciences*, **2021**, 66, 1919–28. <https://doi.org/10.1111/1556-4029.14789>.

Comprehensive analytical and structural characteristics of methyl 3,3-dimethyl-2-(1-(pent-4-en-1-yl)-1*H*-indazole-3-carboxamido)butanoate (MDMB-4en-PINACA). M.P. Dybowski, P. Holowinski, R. Typek, A.L. Dawidowicz, *Forensic Toxicology*, **2021**, 39, 481–92. <https://doi.org/10.1007/s11419-021-00573-y>.

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Seizures of new psychoactive substances on the Italian territory during the COVID-19 pandemic. F. Vincenti, A. Gregori, M. Flammini, F. Di Rosa, A. Salomone, *Forensic Science International*, **2021**, 326, 110904. <https://doi.org/10.1016/j.forsciint.2021.110904>.

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Cutting agents in cocaine: A temporal study of the period 2015–2017 in the Northern Region of Colombia. L. Arango-Meriño, C. Quevedo-Castro, J. Mancera-Barros, Á.E. Sarmiento-Gutiérrez, V.A. Arana, J. Granados-Reyes, *Forensic Science International*, **2021**, 327, 110911. <https://doi.org/10.1016/j.forsciint.2021.110911>.

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Determination of morphine, codeine, and thebaine concentrations from poppy seed tea using magnetic carbon nanotubes facilitated dispersive micro-solid phase extraction and GC-MS analysis. S.Y. Li, M.J. Swortwood, J.C.C Yu, *Forensic Science International*, **2021**, 329, 111052. <https://doi.org/10.1016/j.forsciint.2021.111052>.

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