Christophe P Stove

List of Publications by Year
in descending order

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214 papers	6,524 citations	61984 43 h-index	102487 66 g-index
229 all docs	229 docs citations	229 times ranked	5731 citing authors

#	Article	IF	Citations
1	The Transcription Factor Snail Induces Tumor Cell Invasion through Modulation of the Epithelial Cell Differentiation Program. Cancer Research, 2005, 65, 6237-6244.	0.9	237
2	Hemato-critical issues in quantitative analysis of dried blood spots: challenges and solutions. Bioanalysis, 2013, 5, 2023-2041.	1.5	213
3	Detection and Activity Profiling of Synthetic Cannabinoids and Their Metabolites with a Newly Developed Bioassay. Analytical Chemistry, 2016, 88, 11476-11485.	6.5	193
4	Official International Association for Therapeutic Drug Monitoring and Clinical Toxicology Guideline: Development and Validation of Dried Blood Spotâ€“Based Methods for Therapeutic Drug Monitoring. Therapeutic Drug Monitoring, 2019, 41, 409-430.	2.0	188
5	Is the hematocrit still an issue in quantitative dried blood spot analysis?. Journal of Pharmaceutical and Biomedical Analysis, 2019, 163, 188-196.	2.8	147
6	Folates in Plants: Research Advances and Progress in Crop Biofortification. Frontiers in Chemistry, 2017, 5, 21.	3.6	141
7	Improving folate (vitamin B9) stability in biofortified rice through metabolic engineering. Nature Biotechnology, 2015, 33, 1076-1078.	17.5	140
8	Dried blood spots in toxicology: from the cradle to the grave?. Critical Reviews in Toxicology, 2012, 42, 230-243.	3.9	137
9	Prediction of the Hematocrit of Dried Blood Spots via Potassium Measurement on a Routine Clinical Chemistry Analyzer. Analytical Chemistry, 2013, 85, 404-410.	6.5	137
10	Does volumetric absorptive microsampling eliminate the hematocrit bias for caffeine and paraxanthine in dried blood samples? A comparative study. Analytica Chimica Acta, 2015, 881, 65-73.	5.4	128
11	A field study on 8 pharmaceuticals and 1 pesticide in Belgium: Removal rates in waste water treatment plants and occurrence in surface water. Science of the Total Environment, 2010, 408, 3448-3453.	8.0	94
12	P-Cadherin Promotes Cell-Cell Adhesion and Counteracts Invasion in Human Melanoma. Cancer Research, 2005, 65, 8774-8783.	0.9	87
13	The role of non-muscle myosin IIA in aggregation and invasion of human MCF-7 breast cancer cells. International Journal of Developmental Biology, 2011, 55, 835-840.	0.6	85
14	Current strategies for coping with the hematocrit problem in dried blood spot analysis. Bioanalysis, 2014, 6, 1871-1874.	1.5	83
15	Activity-Based Detection of Consumption of Synthetic Cannabinoids in Authentic Urine Samples Using a Stable Cannabinoid Reporter System. Analytical Chemistry, 2017, 89, 9527-9536.	6.5	81
16	Spot them in the spot: analysis of abused substances using dried blood spots. Bioanalysis, 2014, 6, 2211-2227.	1.5	80
17	Plasmin Produces an E-Cadherin Fragment That Stimulates Cancer Cell Invasion. Biological Chemistry, 2002, 383, 159-165.	2.5	73
18	Human Immunodeficiency Virus Nef Induces Rapid Internalization of the T-Cell Coreceptor CD8Î±Î². Journal of Virology, 2005, 79, 11422-11433.	3.4	71

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19	P-Cadherin Is Up-Regulated by the Antiestrogen ICI 182,780 and Promotes Invasion of Human Breast Cancer Cells. Cancer Research, 2004, 64, 8309-8317.	0.9	70
20	Insights into biased signaling at cannabinoid receptors: synthetic cannabinoid receptor agonists. Biochemical Pharmacology, 2019, 169, 113623.	4.4	70
21	Recent developments in electrochemical detection of illicit drugs in diverse matrices. Biosensors and Bioelectronics, 2020, 169, 112579.	10.1	70
22	A Novel, Nondestructive, Dried Blood Spot-Based Hematocrit Prediction Method Using Noncontact Diffuse Reflectance Spectroscopy. Analytical Chemistry, 2016, 88, 6538-6546.	6.5	69
23	Quantification of phosphatidylethanol 16:0/18:1, 18:1/18:1, and 16:0/16:0 in venous blood and venous and capillary dried blood spots from patients in alcohol withdrawal and control volunteers. Analytical and Bioanalytical Chemistry, 2016, 408, 825-838.	3.7	65
24	Report on a novel emerging class of highly potent benzimidazole NPS opioids: Chemical and in vitro functional characterization of isotonitazene. Drug Testing and Analysis, 2020, 12, 422-430.	2.6	65
25	Dihydrofolate Reductase/Thymidylate Synthase Fine-Tunes the Folate Status and Controls Redox Homeostasis in Plants. Plant Cell, 2017, 29, 2831-2853.	6.6	64
26	Synthesis and in Vitro Cannabinoid Receptor 1 Activity of Recently Detected Synthetic Cannabinoids 4F-MDMB-BICA, 5F-MPP-PICA, MMB-4en-PICA, CUMYL-CBMICA, ADB-BINACA, APP-BINACA, 4F-MDMB-BINACA, MDMB-4en-PINACA, A-CHMINACA, 5F-AB-P7AICA, 5F-MDMB-P7AICA, and 5F-AP7AICA. ACS Chemical Neuroscience, 2020, 11, 4434-4446.	3.5	62
27	Application of an activityâ€based receptor bioassay to investigate the in vitro activity of selected indoleâ€• and indazoleâ€3â€•carboxamideâ€based synthetic cannabinoids at CB1 and CB2 receptors. Drug Testing and Analysis, 2019, 11, 501-511.	2.6	61
28	Volumetric absorptive microsampling as an alternative tool for therapeutic drug monitoring of first-generation anti-epileptic drugs. Analytical and Bioanalytical Chemistry, 2018, 410, 2331-2341.	3.7	60
29	Potassium-based algorithm allows correction for the hematocrit bias in quantitative analysis of caffeine and its major metabolite in dried blood spots. Analytical and Bioanalytical Chemistry, 2014, 406, 6749-6755.	3.7	57
30	Ultra-performance liquid chromatographyâ€“tandem mass spectrometry (UPLCâ€“MS/MS) for the sensitive determination of folates in rice. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2010, 878, 509-513.	2.3	56
31	Synthesis, Chemical Characterization, and Î¼-Opioid Receptor Activity Assessment of the Emerging Group of â€œNitazeneâ€•2-Benzylbenzimidazole Synthetic Opioids. ACS Chemical Neuroscience, 2021, 12, 1241-1251.	3.5	56
32	Optimisation and validation of a liquid chromatographyâ€“tandem mass spectrometry method for folates in rice. Journal of Chromatography A, 2008, 1215, 125-132.	3.7	54
33	Enhancing pterin and para-aminobenzoate content is not sufficient to successfully biofortify potato tubers and Arabidopsis thaliana plants with folate. Journal of Experimental Botany, 2013, 64, 3899-3909.	4.8	53
34	Pâ€cadherin in adhesion and invasion: Opposite roles in colon and bladder carcinoma. International Journal of Cancer, 2011, 128, 1031-1044.	5.1	50
35	Volumetric absorptive microsampling at home as an alternative tool for the monitoring of HbA1c in diabetes patients. Clinical Chemistry and Laboratory Medicine, 2017, 55, 462-469.	2.3	50
36	Analytical confirmation of synthetic cannabinoids in a cohort of 179 presentations with acute recreational drug toxicity to an Emergency Department in London, UK in the first half of 2015. Clinical Toxicology, 2017, 55, 338-345.	1.9	49

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37	Folate Biofortification of Potato by Tuber-Specific Expression of Four Folate Biosynthesis Genes. Molecular Plant, 2018, 11, 175-188.	8.3	49
38	Correction for the Hematocrit Bias in Dried Blood Spot Analysis Using a Nondestructive, Single-Wavelength Reflectance-Based Hematocrit Prediction Method. Analytical Chemistry, 2018, 90, 1795-1804.	6.5	48
39	Enantiospecific Synthesis, Chiral Separation, and Biological Activity of Four Indazole-3-Carboxamide-Type Synthetic Cannabinoid Receptor Agonists and Their Detection in Seized Drug Samples. Frontiers in Chemistry, 2019, 7, 321.	3.6	48
40	Dried blood spot punches for confirmation of suspected Î³-hydroxybutyric acid intoxications: validation of an optimized GCâ€“MS procedure. Bioanalysis, 2011, 3, 2271-2281.	1.5	47
41	Evaluation of the Capitainer-B Microfluidic Device as a New Hematocrit-Independent Alternative for Dried Blood Spot Collection. Analytical Chemistry, 2018, 90, 12893-12899.	6.5	46
42	Activity-Based Concept to Screen Biological Matrices for Opiates and (Synthetic) Opioids. Clinical Chemistry, 2018, 64, 1221-1229.	3.2	46
43	Roles for neuregulins in human cancer. Clinical and Experimental Metastasis, 2005, 21, 665-684.	3.3	45
44	Determination of gamma-hydroxybutyric acid in dried blood spots using a simple GC-MS method with direct â€œon spotâ€•derivatization. Analytical and Bioanalytical Chemistry, 2010, 398, 2173-2182.	3.7	45
45	Activity-Based Detection of Cannabinoids in Serum and Plasma Samples. Clinical Chemistry, 2018, 64, 918-926.	3.2	44
46	Alternative Sampling Devices to Collect Dried Blood Microsamples: State-of-the-Art. Therapeutic Drug Monitoring, 2021, 43, 310-321.	2.0	44
47	8-Prenylnaringenin, the phytoestrogen in hops and beer, upregulates the function of the E-cadherin/catenin complex in human mammary carcinoma cells. European Journal of Cell Biology, 2001, 80, 580-585.	3.6	42
48	Synthesis, characterization and in vitro anti-invasive activity screening of polyphenolic and heterocyclic compounds. Bioorganic and Medicinal Chemistry, 2003, 11, 913-929.	3.0	42
49	The Heregulin/Human Epidermal Growth Factor Receptor as a New Growth Factor System in Melanoma with Multiple Ways of Deregulation. Journal of Investigative Dermatology, 2003, 121, 802-812.	0.7	41
50	Assessment of Biased Agonism among Distinct Synthetic Cannabinoid Receptor Agonist Scaffolds. ACS Pharmacology and Translational Science, 2020, 3, 285-295.	4.9	41
51	The use of dried blood spots for quantification of 15 antipsychotics and 7 metabolites with ultraâ€high performance liquid chromatography â€•tandem mass spectrometry. Drug Testing and Analysis, 2015, 7, 502-511.	2.6	39
52	Signaling but not trafficking function of HIV-1 protein Nef is essential for Nef-induced defects in human intrathymic T-cell development. Blood, 2003, 102, 2925-2932.	1.4	38
53	Melanoma cells secrete follistatin, an antagonist of activin-mediated growth inhibition. Oncogene, 2004, 23, 5330-5339.	5.9	38
54	Evaluation of the Performance and Hematocrit Independence of the HemaPEN as a Volumetric Dried Blood Spot Collection Device. Analytical Chemistry, 2019, 91, 14467-14475.	6.5	38

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55	The next generation of synthetic cannabinoids: Detection, activity, and potential toxicity of pentâ€4en and butâ€3en analogues including MDMBâ€4enâ€PINACA. Drug Testing and Analysis, 2021, 13, 427-438.	2.6	38
56	Fully automated therapeutic drug monitoring of anti-epileptic drugs making use of dried blood spots. Journal of Chromatography A, 2019, 1601, 95-103.	3.7	37
57	Functional evaluation of carboxy metabolites of synthetic cannabinoid receptor agonists featuring scaffolds based on Lâ€valine or Lâ€tert â€leucine. Drug Testing and Analysis, 2019, 11, 1183-1191.	2.6	37
58	Screening and confirmation methods for GHB determination in biological fluids. Analytical and Bioanalytical Chemistry, 2014, 406, 3553-3577.	3.7	36
59	In vitro functional characterization of a panel of non-fentanyl opioid new psychoactive substances. Archives of Toxicology, 2020, 94, 3819-3830.	4.2	36
60	Assessment of structure-activity relationships and biased agonism at the Mu opioid receptor of novel synthetic opioids using a novel, stable bio-assay platform. Biochemical Pharmacology, 2020, 177, 113910.	4.4	36
61	The Rise and Fall of Isotonitazene and Brorphine: Two Recent Stars in the Synthetic Opioid Firmament. Journal of Analytical Toxicology, 2022, 46, 115-121.	2.8	35
62	Alternative sampling strategies for the assessment of alcohol intake of living persons. Clinical Biochemistry, 2016, 49, 1078-1091.	1.9	34
63	Molecular dissection of the human A 3 adenosine receptor coupling with Î²-arrestin2. Biochemical Pharmacology, 2018, 148, 298-307.	4.4	34
64	Development and validation of a liquid chromatographic method for the simultaneous determination of four anthracyclines and their respective 13-S-dihydro metabolites in plasma and saliva. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 3907-3915.	2.3	33
65	Identification of psychedelic new psychoactive substances (NPS) showing biased agonism at the 5-HT2AR through simultaneous use of Î²-arrestin 2 and miniGÎ±q bioassays. Biochemical Pharmacology, 2020, 182, 114251.	4.4	33
66	E-Cadherin Regulates Human Nanos1, which Interacts with p120ctn and Induces Tumor Cell Migration and Invasion. Cancer Research, 2006, 66, 10007-10015.	0.9	31
67	Quantification of EtG in hair, EtG and EtS in urine and PEth species in capillary dried blood spots to assess the alcohol consumption in driverâ€™s licence regranting cases. Drug and Alcohol Dependence, 2016, 165, 191-197.	3.2	31
68	Opening the toolbox of alternative sampling strategies in clinical routine: A key-role for (LC-)MS/MS. TrAC - Trends in Analytical Chemistry, 2016, 84, 61-73.	11.4	31
69	First Report on Brorphine: The Next Opioid on the Deadly New Psychoactive Substance Horizon?. Journal of Analytical Toxicology, 2021, 44, 937-946.	2.8	31
70	Consensus for the use of the alcohol biomarker phosphatidylethanol (PEth) for the assessment of abstinence and alcohol consumption in clinical and forensic practice (2022 Consensus of Basel). Drug Testing and Analysis, 2022, 14, 1800-1802.	2.6	31
71	Luminescence- and Fluorescence-Based Complementation Assays to Screen for GPCR Oligomerization: Current State of the Art. International Journal of Molecular Sciences, 2019, 20, 2958.	4.1	30
72	The Transcriptional Repressor Kaiso Localizes at the Mitotic Spindle and Is a Constituent of the Pericentriolar Material. PLoS ONE, 2010, 5, e9203.	2.5	29

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73	Rice folate enhancement through metabolic engineering has an impact on rice seed metabolism, but does not affect the expression of the endogenous folate biosynthesis genes. Plant Molecular Biology, 2013, 83, 329-349.	3.9	29
74	Cov-MS: A Community-Based Template Assay for Mass-Spectrometry-Based Protein Detection in SARS-CoV-2 Patients. Jacs Au, 2021, 1, 750-765.	7.9	29
75	Shape matters: The application of activityâ€based in vitro bioassays and chiral profiling to the pharmacological evaluation of synthetic cannabinoid receptor agonists in drugâ€infused papers seized in prisons. Drug Testing and Analysis, 2021, 13, 628-643.	2.6	28
76	Activity-Based Detection and Bioanalytical Confirmation of a Fatal Carfentanil Intoxication. Frontiers in Pharmacology, 2018, 9, 486.	3.5	27
77	Distinct Dopamine D2 Receptor Antagonists Differentially Impact D2 Receptor Oligomerization. International Journal of Molecular Sciences, 2019, 20, 1686.	4.1	27
78	Metabolic engineering of rice endosperm towards higher vitamin B1 accumulation. Plant Biotechnology Journal, 2021, 19, 1253-1267.	8.3	26
79	Assessment of biased agonism at the A3 adenosine receptor using Î²-arrestin and miniGÎ±i recruitment assays. Biochemical Pharmacology, 2020, 177, 113934.	4.4	26
80	Clinical application of microsampling versus conventional sampling techniques in the quantitative bioanalysis of antibiotics: a systematic review. Bioanalysis, 2018, 10, 407-423.	1.5	25
81	Barriers and opportunities for the clinical implementation of therapeutic drug monitoring in oncology. British Journal of Clinical Pharmacology, 2021, 87, 227-236.	2.4	25
82	Interaction of Î±-Catulin with Dystrobrevin Contributes to Integrity of Dystrophin Complex in Muscle. Journal of Biological Chemistry, 2012, 287, 21717-21728.	3.4	24
83	Comprehensive investigation on synthetic cannabinoids: Metabolic behavior and potency testing, using 5Fâ€APPâ€PICA and AMBâ€FUBINACA as model compounds. Drug Testing and Analysis, 2019, 11, 1358-1368.	2.6	24
84	The Citrus Methoxyflavone Tangeretin Affects Human Cell-Cell Interactions. Advances in Experimental Medicine and Biology, 2002, 505, 135-139.	1.6	24
85	A folate independent role for cytosolic HPPK/DHPS upon stress in Arabidopsis thaliana. Phytochemistry, 2012, 73, 23-33.	2.9	23
86	Design, Synthesis, and Biological Evaluation of Bivalent Ligands Targeting Dopamine D₂â€Like Receptors and the Î¼â€Opioid Receptor. ChemMedChem, 2018, 13, 944-956.	3.2	23
87	Dried blood spots in therapeutic drug monitoring and toxicology. Expert Opinion on Drug Metabolism and Toxicology, 2018, 14, 1-3.	3.3	23
88	Self-sampling at home using volumetric absorptive microsampling: coupling analytical evaluation to volunteersâ€™ perception in the context of a large scale study. Clinical Chemistry and Laboratory Medicine, 2021, 59, e185-e187.	2.3	23
89	Are capillary DBS applicable for therapeutic drug monitoring of common antipsychotics? A proof of concept. Bioanalysis, 2015, 7, 2119-2130.	1.5	22
90	EASL Clinical Practice Guideline: Occupational liver diseases. Journal of Hepatology, 2019, 71, 1022-1037.	3.7	22

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91	Porphyrins produced by acneic Cutibacterium acnes strains activate the inflammasome by inducing K+ leakage. IScience, 2021, 24, 102575.	4.1	22
92	Fully Automated Dried Blood Spot Extraction coupled to Liquid Chromatography-tandem Mass Spectrometry for Therapeutic Drug Monitoring of Immunosuppressants. Journal of Chromatography A, 2021, 1653, 462430.	3.7	22
93	Pharmacological evaluation and forensic case series of N-pyrrolidino etonitazene (etonitazepyne), a newly emerging 2-benzylbenzimidazole â€˜nitazeneâ€™ synthetic opioid. Archives of Toxicology, 2022, 96, 1845-1863.	4.2	22
94	Feasibility of Following up Gamma-Hydroxybutyric Acid Concentrations in Sodium Oxybate (XyremÂ®)-Treated Narcoleptic Patients Using Dried Blood Spot Sampling at Home. CNS Drugs, 2013, 27, 233-237.	5.9	21
95	Acrylonitrile exposure in the general population following a major train accident in Belgium: A human biomonitoring study. Toxicology Letters, 2014, 231, 344-351.	0.8	21
96	Role of therapeutic drug monitoring in pulmonary infections: use and potential for expanded use of dried blood spot samples. Bioanalysis, 2015, 7, 481-495.	1.5	21
97	Synthesis toward Bivalent Ligands for the Dopamine D₂ and Metabotropic Glutamate 5 Receptors. Journal of Medicinal Chemistry, 2018, 61, 8212-8225.	6.4	21
98	Development, validation and application of an inductively coupled plasma â€“ mass spectrometry method to determine cobalt in metal-on-metal prosthesis patients using volumetric absorptive microsampling. Talanta, 2020, 208, 120055.	5.5	21
99	In vitro structureâ€“activity relationship determination of 30 psychedelic new psychoactive substances by means of Î²-arrestin 2 recruitment to the serotonin 2A receptor. Archives of Toxicology, 2020, 94, 3449-3460.	4.2	21
100	A validated ultra-high-performance liquid chromatographyâ€“tandem mass spectrometry method for the selective analysis of free and total folate in plasma and red blood cells. Journal of Chromatography A, 2015, 1398, 20-28.	3.7	20
101	Volumetric absorptive microsampling as an alternative sampling strategy for the determination of paracetamol in blood and cerebrospinal fluid. Analytical and Bioanalytical Chemistry, 2019, 411, 181-191.	3.7	20
102	Diagnosing intake and rationalizing toxicities associated with 5F-MDMB-PINACA and 4F-MDMB-BINACA abuse. Archives of Toxicology, 2021, 95, 489-508.	4.2	20
103	Quantification of eight hematological tyrosine kinase inhibitors in both plasma and whole blood by a validated LC-MS/MS method. Talanta, 2021, 226, 122140.	5.5	20
104	Cannabinoid receptor activation potential of the next generation, generic ban evading OXIZID synthetic cannabinoid receptor agonists. Drug Testing and Analysis, 2022, 14, 1565-1575.	2.6	20
105	Toxicokinetics and toxicodynamics of the fentanyl homologs cyclopropanoyl-1-benzyl-4Â´-fluoro-4-anilinopiperidine and furanoyl-1-benzyl-4-anilinopiperidine. Archives of Toxicology, 2020, 94, 2009-2025.	4.2	19
106	Simultaneous readout of multiple FRET pairs using photochromism. Nature Communications, 2021, 12, 2005.	12.8	19
107	Systematic evaluation of a panel of 30 synthetic cannabinoid receptor agonists structurally related to MMBâ€4enâ€PICA, MDMBâ€4enâ€PINACA, ADBâ€4enâ€PINACA, and MMBâ€4CNâ€BUTINACA using a combination of binding and different CB₁ receptor activation assays: Part Iâ€”Synthesis, analytical characterization, and binding affinity for human CB₁ receptors. Drug Testing and Analysis, 2021, 13, 1383-1401.	2.6	19
108	Inhibition of p-Aminobenzoate and Folate Syntheses in Plants and Apicomplexan Parasites by Natural Product Rubreserine. Journal of Biological Chemistry, 2012, 287, 22367-22376.	3.4	18

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109	An optimized and validated SPE-LCâ€“MS/MS method for the determination of caffeine and paraxanthine in hair. Talanta, 2015, 144, 62-70.	5.5	18
110	Systematic evaluation of a panel of 30 synthetic cannabinoid receptor agonists structurally related to MMBâ€4enâ€PICA, MDMBâ€4enâ€PINACA, ADBâ€4enâ€PINACA, and MMBâ€4CNâ€BUTINACA using a combination of binding and different CB₁ receptor activation assaysâ€”Part II: Structure activity relationship assessment via a Î²â€arrestin recruitment assay. Drug Testing and Analysis, 2021, 13, 1402-1411.	2.6	18
111	DBS and beyond. Bioanalysis, 2015, 7, 1961-1962.	1.5	17
112	Serotonin 2A Receptor (5-HT_{2A}R) Activation by 25H-NBOMe Positional Isomers: In Vitro Functional Evaluation and Molecular Docking. ACS Pharmacology and Translational Science, 2021, 4, 479-487.	4.9	17
113	Determination of gamma-hydroxybutyric acid in biofluids using a one-step procedure with â€œin-vialâ€• derivatization and headspace-trap gas chromatographyâ€“mass spectrometry. Journal of Chromatography A, 2013, 1296, 84-92.	3.7	16
114	Why Dried Blood Spots Are an Ideal Tool for CYP1A2 Phenotyping. Clinical Pharmacokinetics, 2014, 53, 763-771.	3.5	16
115	Setup of a Serotonin 2A Receptor (5-HT2AR) Bioassay: Demonstration of Its Applicability To Functionally Characterize Hallucinogenic New Psychoactive Substances and an Explanation Why 5-HT2AR Bioassays Are Not Suited for Universal Activity-Based Screening of Biofluids for New Psychoactive Substances. Analytical Chemistry, 2019, 91, 15444-15452.	6.5	16
116	Activity-based reporter assays for the screening of abused substances in biological matrices. Critical Reviews in Toxicology, 2019, 49, 95-109.	3.9	16
117	Quantification of cocaine and cocaine metabolites in dried blood spots from a controlled administration study using liquid chromatographyâ€“tandem mass spectrometry. Drug Testing and Analysis, 2019, 11, 709-720.	2.6	16
118	Hematocrit prediction in volumetric absorptive microsamples. Journal of Pharmaceutical and Biomedical Analysis, 2020, 190, 113491.	2.8	16
119	In vitro activity profiling of Cumylâ€PEGACLONE variants at the CB₁ receptor: Fluorination versus isomer exploration. Drug Testing and Analysis, 2020, 12, 1336-1343.	2.6	16
120	CYP1A2 phenotyping in dried blood spots and microvolumes of whole blood and plasma. Bioanalysis, 2014, 6, 3011-3024.	1.5	15
121	Folates from metabolically engineered rice: A long-term study in rats. Molecular Nutrition and Food Research, 2015, 59, 490-500.	3.3	15
122	Hide and Seek: Overcoming the Masking Effect of Opioid Antagonists in Activity-Based Screening Tests. Clinical Chemistry, 2019, 65, 1604-1605.	3.2	15
123	Quantitation of phosphatidylethanol in dried blood after volumetric absorptive microsampling. Talanta, 2021, 223, 121694.	5.5	15
124	Near-infrared-based hematocrit prediction of dried blood spots: An in-depth evaluation. Clinica Chimica Acta, 2021, 523, 239-246.	1.1	15
125	Quantitative liquid chromatographic analysis of anthracyclines in biological fluids. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2011, 879, 2471-2486.	2.3	14
126	Alternative Sampling Strategies for Cytochrome P450 Phenotyping. Clinical Pharmacokinetics, 2016, 55, 169-184.	3.5	14

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127	Systematic evaluation of a panel of 30 synthetic cannabinoid receptor agonists structurally related to MMBâ€4enâ€PICA, MDMBâ€4enâ€PINACA, ADBâ€4enâ€PINACA, and MMBâ€4CNâ€BUTINACA using a combination of binding and different CB1 receptor activation assays. Part III: The G protein pathway and critical comparison of different assays. Drug Testing and Analysis, 2021, 13, 1412-1429.	2.6	14
128	Alternative Sampling Strategies in Therapeutic Drug Monitoring: Microsampling Growing Toward Maturity. Therapeutic Drug Monitoring, 2021, 43, 307-309.	2.0	14
129	Volumetric absorptive microsampling as a suitable tool to monitor tyrosine kinase inhibitors. Journal of Pharmaceutical and Biomedical Analysis, 2022, 207, 114418.	2.8	14
130	Folate Profiling in Potato (Solanum tuberosum) Tubers by Ultrahigh-Performance Liquid Chromatographyâ€“Tandem Mass Spectrometry. Journal of Agricultural and Food Chemistry, 2014, 62, 3092-3100.	5.2	13
131	Do capillary dried blood spot concentrations of gammaâ€hydroxybutyric acid mirror those in venous blood? A comparative study. Drug Testing and Analysis, 2015, 7, 336-340.	2.6	13
132	Probing structure-activity relationship in Î²-arrestin2 recruitment of diversely substituted adenosine derivatives. Biochemical Pharmacology, 2018, 158, 103-113.	4.4	13
133	Heterodimerization of Mu Opioid Receptor Protomer with Dopamine D2 Receptor Modulates Agonist-Induced Internalization of Mu Opioid Receptor. Biomolecules, 2019, 9, 368.	4.0	13
134	Validation of Activity-Based Screening for Synthetic Cannabinoid Receptor Agonists in a Large Set of Serum Samples. Clinical Chemistry, 2019, 65, 347-349.	3.2	13
135	Patient-Centric Assessment of Thiamine Status in Dried Blood Volumetric Absorptive Microsamples Using LCâ€“MS/MS Analysis. Analytical Chemistry, 2021, 93, 2660-2668.	6.5	13
136	In vitro assays for the functional characterization of (psychedelic) substances at the serotonin receptor 5â€HT_{2A}R. Journal of Neurochemistry, 2022, 162, 39-59.	3.9	13
137	Optimization of a liquid chromatographic separation for the simultaneous determination of four anthracyclines and their respective 13â€Sâ€dihydro metabolites. Journal of Separation Science, 2008, 31, 1042-1049.	2.5	12
138	Post-Mortem (Re)Distribution of 3,4-Methylenedioxymethamphetamine (MDMA,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (&# 2010, 11, 453-459.	1.6	12
139	Alternative Sampling Strategies for Therapeutic Drug Monitoring. , 2016, , 279-336.		12
140	Microwave-assisted on-spot derivatization for gas chromatographyâ€“mass spectrometry based determination of polar low molecular weight compounds in dried blood spots. Journal of Chromatography A, 2016, 1465, 175-183.	3.7	12
141	Alternative sampling strategies for the assessment of biomarkers of exposure. Current Opinion in Toxicology, 2017, 4, 43-51.	5.0	12
142	Dried Blood Microsampling-Based Therapeutic Drug Monitoring of Antiepileptic Drugs in Children With Nodding Syndrome and Epilepsy in Uganda and the Democratic Republic of the Congo. Therapeutic Drug Monitoring, 2020, 42, 481-490.	2.0	12
143	Report on a New Opioid NPS: Chemical and In Vitro Functional Characterization of a Structural Isomer of the MT-45 Derivative Diphenpipenol. Journal of Analytical Toxicology, 2021, 45, 134-140.	2.8	12
144	Toxicological and pharmacological characterization of novel cinnamylpiperazine synthetic opioids in humans and in vitro including 2-methyl AP-237 and AP-238. Archives of Toxicology, 2022, 96, 1701-1710.	4.2	12

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145	First identification, chemical analysis and pharmacological characterization of N-piperidinyl etonitazene (etonitazepipne), a recent addition to the 2-benzylbenzimidazole opioid subclass. Archives of Toxicology, 2022, 96, 1865-1880.	4.2	12
146	A new cannabinoid receptor 1 selective agonist evading the 2021 â€œChina banâ€• ADBâ€FUBIATA. Drug Testing and Analysis, 2022, 14, 1639-1644.	2.6	12
147	Wet absorptive microsampling at home for HbA1c monitoring in diabetic children. Clinical Chemistry and Laboratory Medicine, 2018, 56, e291-e294.	2.3	11
148	The First Comprehensive LCâ€“MS/MS Method Allowing Dissection of the Thiamine Pathway in Plants. Analytical Chemistry, 2020, 92, 4073-4081.	6.5	11
149	Striatal Dopamine D2-Muscarinic Acetylcholine M1 Receptorâ€“Receptor Interaction in a Model of Movement Disorders. Frontiers in Pharmacology, 2020, 11, 194.	3.5	11
150	Phenethyl-4-ANPP: A Marginally Active Byproduct Suggesting a Switch in Illicit Fentanyl Synthesis Routes. Journal of Analytical Toxicology, 2022, 46, 350-357.	2.8	11
151	Structureâ€“activity relationships of valine, tert-leucine, and phenylalanine amino acid-derived synthetic cannabinoid receptor agonists related to ADB-BUTINACA, APP-BUTINACA, and ADB-P7AICA. RSC Medicinal Chemistry, 2022, 13, 156-174.	3.9	11
152	Sensing an Oxygen Sensor: Development and Application of Activity-Based Assays Directly Monitoring HIF Heterodimerization. Analytical Chemistry, 2021, 93, 14462-14470.	6.5	11
153	Metabolic engineering provides insight into the regulation of thiamin biosynthesis in plants. Plant Physiology, 2021, 186, 1832-1847.	4.8	10
154	Setâ€up of a populationâ€based model to verify alcohol abstinence via monitoring of the direct alcohol marker phosphatidylethanol 16:0/18:1. Addiction, 2022, , .	3.3	10
155	Characterization of recent non-fentanyl synthetic opioids via three different in vitro Âµ-opioid receptor activation assays. Archives of Toxicology, 2022, 96, 877-897.	4.2	10
156	Current evolutions, applications, and challenges of phosphatidylethanol analysis for clinical and forensic purposes. Wiley Interdisciplinary Reviews Forensic Science, 2022, 4, .	2.1	10
157	Therapeutic Drug Monitoring of Tyrosine Kinase Inhibitors Using Dried Blood Microsamples. Frontiers in Oncology, 2022, 12, 821807.	2.8	10
158	Enlightening the â€œSpirit Moleculeâ€• Photomodulation of the 5â€HT_{2A} Receptor by a Lightâ€Controllable N,Nâ€Dimethyltryptamine Derivative. Angewandte Chemie - International Edition, 2022, 61, .	13.8	10
159	Fatality following a suicidal overdose with varenicline. International Journal of Legal Medicine, 2013, 127, 85-91.	2.2	9
160	Acrylonitrile exposure assessment in the emergency responders of a major train accident in Belgium: A human biomonitoring study. Toxicology Letters, 2014, 231, 352-359.	0.8	9
161	Clinical determination of folates: recent analytical strategies and challenges. Analytical and Bioanalytical Chemistry, 2019, 411, 4383-4399.	3.7	9
162	Dried blood microsample-assisted determination of vitamins: Recent developments and challenges. TrAC - Trends in Analytical Chemistry, 2020, 132, 116057.	11.4	8

#	Article	IF	Citations
163	The Balance of MU-Opioid, Dopamine D2 and Adenosine A2A Heteroreceptor Complexes in the Ventral Striatal-Pallidal GABA Antireward Neurons May Have a Significant Role in Morphine and Cocaine Use Disorders. Frontiers in Pharmacology, 2021, 12, 627032.	3.5	8
164	In vitro functional assays as a tool to study new synthetic opioids at the Î¼-opioid receptor: Potential, pitfalls and progress. , 2022, 235, 108161.		8
165	Bowes melanoma cells secrete heregulin, which can promote aggregation and counteract invasion of human mammary cancer cells. International Journal of Cancer, 2005, 114, 572-578.	5.1	7
166	Degradation and interconversion of plant pteridines during sample preparation and ultra-high performance liquid chromatographyâ€“tandem mass spectrometry. Food Chemistry, 2016, 194, 1189-1198.	8.2	7
167	The (non)sense of routinely analysing beta-hydroxybutyric acid in forensic toxicology casework. Forensic Science International, 2017, 274, 38-43.	2.2	7
168	Dried blood spot analysis of gabapentin as a valid alternative for serum: a bridging study. Journal of Pharmaceutical and Biomedical Analysis, 2017, 132, 72-76.	2.8	7
169	Assessing GPCR Dimerization in Living Cells: Comparison of the NanoBiT Assay with Related Bioluminescence- and Fluorescence-Based Approaches. Neuromethods, 2018, , 239-250.	0.3	7
170	A novel nanobody-based bio-assay using functional complementation of a split nanoluciferase to monitor Mu- opioid receptor activation. Analytical and Bioanalytical Chemistry, 2020, 412, 8015-8022.	3.7	7
171	Volumetric absorptive microsampling (VAMS) as a reliable tool to assess thiamine status in dried blood microsamples: a comparative study. American Journal of Clinical Nutrition, 2021, 114, 1200-1207.	4.7	7
172	Determination of paracetamol and its metabolites via LC-MS/MS in dried blood volumetric absorptive microsamples: A tool for pharmacokinetic studies. Journal of Pharmaceutical and Biomedical Analysis, 2021, 206, 114361.	2.8	7
173	NNL-3: A Synthetic Intermediate or a New Class of Hydroxybenzotriazole Esters with Cannabinoid Receptor Activity?. ACS Chemical Neuroscience, 2021, 12, 4020-4036.	3.5	7
174	Mice in Ecstasy: Advanced Animal Models in the Study of MDMA. Current Pharmaceutical Biotechnology, 2010, 11, 421-433.	1.6	6
175	Paraxanthine/Caffeine Concentration Ratios in Hair: An Alternative for Plasma-Based Phenotyping of Cytochrome P450 1A2?. Clinical Pharmacokinetics, 2015, 54, 771-781.	3.5	6
176	Short-term health effects in the general population following a major train accident with acrylonitrile in Belgium. Environmental Research, 2016, 148, 256-263.	7.5	6
177	Evaluating the applicability of mouse SINEs as an alternative normalization approach for RT-qPCR in brain tissue of the APP23 model for Alzheimerâ€™s disease. Journal of Neuroscience Methods, 2019, 320, 128-137.	2.5	6
178	The validation of Short Interspersed Nuclear Elements (SINEs) as a RT-qPCR normalization strategy in a rodent model for temporal lobe epilepsy. PLoS ONE, 2019, 14, e0210567.	2.5	6
179	Kainic acid-induced status epilepticus decreases mGlu5 receptor and phase-specifically downregulates Homer1b/c expression. Brain Research, 2020, 1730, 146640.	2.2	6
180	Understanding the pharmacokinetics of synthetic cathinones: Evaluation of the bloodâ€“brain barrier permeability of 13 related compounds in rats. Addiction Biology, 2021, 26, e12979.	2.6	6

#	Article	IF	Citations
181	Synthesis and Functional Characterization of 2-(2,5-Dimethoxyphenyl)-N-(2-fluorobenzyl)ethanamine (25H-NBF) Positional Isomers. ACS Chemical Neuroscience, 2021, 12, 1667-1673.	3.5	6
182	Biomarkers of Alcohol Misuse. , 2019, , 557-565.		5
183	Evidence of enzyme-mediated transesterification of synthetic cannabinoids with ethanol: potential toxicological impact. Forensic Toxicology, 2020, 38, 95-107.	2.4	5
184	Semiquantitative Activity-Based Detection of JWH-018, a Synthetic Cannabinoid Receptor Agonist, in Oral Fluid after Vaping. Analytical Chemistry, 2020, 92, 6065-6071.	6.5	5
185	An optimized LC-MS/MS method as a pivotal tool to steer thiamine biofortification strategies in rice. Talanta, 2021, 224, 121905.	5.5	5
186	Volumetric Absorptive Microsampling as an Alternative Tool for Biomonitoring of Multi-Mycotoxin Exposure in Resource-Limited Areas. Toxins, 2021, 13, 345.	3.4	5
187	A novel panel of yeast assays for the assessment of thiamin and its biosynthetic intermediates in plant tissues. New Phytologist, 2022, 234, 748-763.	7.3	5
188	Machine Learning to Assist in Large-Scale, Activity-Based Synthetic Cannabinoid Receptor Agonist Screening of Serum Samples. Clinical Chemistry, 2022, 68, 906-916.	3.2	5
189	Isolation and characterisation of an antifolate insensitive (afi1) mutant of Arabidopsis thaliana. Plant Biology, 2013, 15, 37-44.	3.8	4
190	Letter to the Editor. Molecular Genetics and Metabolism, 2013, 110, 195.	1.1	4
191	Editorial: Advances in Analytical Methods for Drugs of Abuse Testing. Frontiers in Chemistry, 2019, 7, 589.	3.6	4
192	Determination of Cocaine and Metabolites in Dried Blood Spots by LC-MS/MS. Methods in Molecular Biology, 2019, 1872, 261-272.	0.9	4
193	Dried blood microsamples: Suitable as an alternative matrix for the quantification of paracetamol-protein adducts?. Toxicology Letters, 2020, 324, 65-74.	0.8	4
194	A3 adenosine receptor agonists containing dopamine moieties for enhanced interspecies affinity. European Journal of Medicinal Chemistry, 2022, 228, 113983.	5.5	4
195	Promising Tools to Facilitate the Implementation of TDM of Biologics in Clinical Practice. Journal of Clinical Medicine, 2022, 11, 3011.	2.4	4
196	Disulfiram inhibition of cyanide formation after acetonitrile poisoning. Clinical Toxicology, 2016, 54, 56-60.	1.9	3
197	Comment on HbA 1c determination from HemaSpot blood collection devices: comparison of homeâ€prepared dried blood spots with standard venous blood analysis. Diabetic Medicine, 2020, 37, 1613-1614.	2.3	3
198	Receptor density influences ligand-induced dopamine D2L receptor homodimerization. European Journal of Pharmacology, 2021, 911, 174557.	3.5	3

#	Article	IF	Citations
199	Monitoring the use of alcoholâ€"A critical overview of the stateâ€ofâ€theâ€art biomarkers. Wiley Interdisciplinary Reviews Forensic Science, 2022, 4, .	2.1	3
200	Should GM Rice with Nutrition Benefits Be Deployed? Findings from Biotech and Socio-Economic Research. , 0, , 139-150.		2
201	Are the N â€demethylated metabolites of Uâ€47700 more active than their parent compound? In vitro Î¼â€opioid receptor activation of N â€desmethylâ€Uâ€47700 and N , N â€bisdesmethylâ€Uâ€47700. Drug Testing and Analysis, 2021, , .	2.6	2
202	Determination of Five Folate Monoglutamates in Rodent Diets. Journal of Agricultural and Food Chemistry, 2015, 63, 10089-10095.	5.2	1
203	Consumer Acceptance and Willingness-to-Pay for Genetically Modified Foods with Enhanced Vitamin Levels. , 2016, , 195-206.		1
204	Biomarkers in patients admitted to the emergency department after exposure to acrylonitrile in a major railway incident involving bulk chemical material. International Journal of Hygiene and Environmental Health, 2017, 220, 261-270.	4.3	1
205	Biofortified Rice to Fight Folate Deficiency. , 2013, , 321-334.		1
206	Die Erhellung des â€œBewusstseinsmolekÃ¼lsâ€• Photomodulation des 5â€HT_{2A} Rezeptors durch ein lichtâ€steuerbares N,Nâ€Dimethyltryptaminâ€Derivat. Angewandte Chemie, 2022, 134, .	2.0	1
207	Analytical performance of eight enzymatic assays for ethanol in serum evaluated by data from the Belgian external quality assessment scheme. Clinical Chemistry and Laboratory Medicine, 2022, 60, 1211-1217.	2.3	1
208	Thiamin Determination in Food: A Chromatographic Challenge (P13-038-19). Current Developments in Nutrition, 2019, 3, nzz036.P13-038-19.	0.3	0
209	Obituary Peter Blanckaert. Drug Testing and Analysis, 2021, 13, 1464-1465.	2.6	0
210	Mice in Ecstasy: Advanced Animal Models in the Study of MDMA. Current Pharmaceutical Biotechnology, 2010, 999, 1-13.	1.6	0
211	Drugs Working On GPCRs: Whatâ€™s Behind The Lock Towards The Therapeutic Effect?. , 2018, , .		0
212	The P2Y2 Receptor C-Terminal Tail Modulates but Is Dispensable for Î²-Arrestin Recruitment. International Journal of Molecular Sciences, 2022, 23, 3460.	4.1	0
213	Frontispiz: Die Erhellung des â€œBewusstseinsmolekÃ¼lsâ€• Photomodulation des 5â€HT_{2A} Rezeptors durch ein lichtâ€steuerbares N,Nâ€Dimethyltryptaminâ€Derivat. Angewandte Chemie, 2022, 134, .	2.0	0
214	Frontispiece: Enlightening the â€œSpirit Moleculeâ€• Photomodulation of the 5â€HT_{2A} Receptor by a Lightâ€Controllable N,Nâ€Dimethyltryptamine Derivative. Angewandte Chemie - International Edition, 2022, 61, .	13.8	0