Neil Spooner

List of Publications by Citations

60 papers	2,694 citations	26 h-index	51 g-index
62 ext. papers	2,927 ext. citations	3.1 avg, IF	5.37 L-index

#	Paper	IF	Citations
60	Dried blood spots as a sample collection technique for the determination of pharmacokinetics in clinical studies: considerations for the validation of a quantitative bioanalytical method. *Analytical Chemistry*, **2009**, 81, 1557-63	7.8	366
59	Volumetric absorptive microsampling: a dried sample collection technique for quantitative bioanalysis. *Analytical Chemistry*, **2014**, 86, 8489-95	7.8	235
58	The effect of hematocrit on assay bias when using DBS samples for the quantitative bioanalysis of drugs. *Bioanalysis*, **2010**, 2, 1385-95	2.1	228
57	Application of dried blood spots combined with HPLC-MS/MS for the quantification of acetaminophen in toxicokinetic studies. *Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences*, **2008**, 870, 32-7	3.2	227
56	Quantitative analysis of therapeutic drugs in dried blood spot samples by paper spray mass spectrometry: an avenue to therapeutic drug monitoring. *Journal of the American Society for Mass Spectrometry*, **2011**, 22, 1501-7	3.5	177
55	Reduction of signal suppression effects in ESI-MS using a nanosplitting device. *Analytical Chemistry*, **2001**, 73, 5635-44	7.8	162
54	A device for dried blood microsampling in quantitative bioanalysis: overcoming the issues associated blood hematocrit. *Bioanalysis*, **2015**, 7, 653-9	2.1	133
53	Direct quantitative bioanalysis of drugs in dried blood spot samples using a thin-layer chromatography mass spectrometer interface. *Analytical Chemistry*, **2009**, 81, 10275-84	7.8	106
52	Investigation of different approaches to incorporating internal standard in DBS quantitative bioanalytical workflows and their effect on nullifying hematocrit-based assay bias. *Analytical Chemistry*, **2015**, 87, 4996-5003	7.8	68
51	Method of applying internal standard to dried matrix spot samples for use in quantitative bioanalysis. *Analytical Chemistry*, **2011**, 83, 8779-86	7.8	60
50	Quantitative bioanalysis of paracetamol in rats using volumetric absorptive microsampling (VAMS). *Journal of Pharmaceutical and Biomedical Analysis*, **2015**, 108, 61-9	3.5	53
49	Overcoming the barriers to the uptake of nonclinical microsampling in regulatory safety studies. *Drug Discovery Today*, **2014**, 19, 528-32	8.8	51
48	Direct ionization of solid-phase microextraction fibers for quantitative drug bioanalysis: from peripheral circulation to mass spectrometry detection. *Analytical Chemistry*, **2015**, 87, 754-9	7.8	49
47	A novel approach to capillary plasma microsampling for quantitative bioanalysis. *Bioanalysis*, **2013**, 5, 1131-5	2.1	48
46	Dried blood spots, pharmacokinetic studies and better medicines for children. *Bioanalysis*, **2011**, 3, 779-86	2.1	48
45	Dried matrix spot direct analysis: evaluating the robustness of a direct elution technique for use in quantitative bioanalysis. *Bioanalysis*, **2011**, 3, 2769-81	2.1	46
44	In-depth study of homogeneity in DBS using two different techniques: results from the EBF DBS-microsampling consortium. *Bioanalysis*, **2013**, 5, 2161-9	2.1	44

43	Application of atmospheric pressure ionization time-of-flight mass spectrometry coupled with liquid chromatography for the characterization of in vitro drug metabolites. *Analytical Chemistry*, **2000**, 72, 3342-8	7.8	41
42	Use of DBS sample collection to determine circulating drug concentrations in clinical trials: practicalities and considerations. *Bioanalysis*, **2010**, 2, 1515-22	2.1	40
41	Biologically mediated defunctionalization of chlorophyll in the aquatic environment□ Senescence/decay of the diatom Phaeodactylum tricornutum. *Organic Geochemistry*, **1994**, 21, 509-516	3.1	39
40	A glowing future for dried blood spot sampling. *Bioanalysis*, **2010**, 2, 1343-4	2.1	35
39	Dried blood spots and sparse sampling: a practical approach to estimating pharmacokinetic parameters of caffeine in preterm infants. *British Journal of Clinical Pharmacology*, **2013**, 75, 805-13	3.8	29
38	Reducing pre-clinical blood volumes for toxicokinetics: toxicologists, pathologists and bioanalysts unite. *Bioanalysis*, **2014**, 6, 2965-8	2.1	28
37	Microsampling: considerations for its use in pharmaceutical drug discovery and development. *Bioanalysis*, **2019**, 11, 1015-1038	2.1	26
36	Multiplexed extraction and quantitative analysis of pharmaceuticals from DBS samples using digital microfluidics. *Bioanalysis*, **2014**, 6, 307-18	2.1	26
35	A dried blood spot update: still an important bioanalytical technique?. *Bioanalysis*, **2013**, 5, 879-83	2.1	26
34	Effect of storage conditions on the weight and appearance of dried blood spot samples on various cellulose-based substrates. *Bioanalysis*, **2010**, 2, 1817-22	2.1	26
33	Biological defunctionalisation of chlorophyll in the aquatic environment II: action of endogenous algal enzymes and aerobic bacteria. *Organic Geochemistry*, **1994**, 22, 773-780	3.1	26
32	Attractive design: an elution solvent optimization platform for magnetic-bead-based fractionation using digital microfluidics and design of experiments. *Analytical Chemistry*, **2015**, 87, 3902-10	7.8	23
31	Ensuring the collection of high-quality dried blood spot samples across multisite clinical studies. *Bioanalysis*, **2017**, 9, 209-213	2.1	21
30	Evaluation of ultra-performance liquid chromatography in the bioanalysis of small molecule drug candidates in plasma. *Journal of Chromatographic Science*, **2007**, 45, 298-304	1.4	20
29	Dried blood spot sampling for quantitative bioanalysis: time for a revolution?. *Bioanalysis*, **2010**, 2, 1781	2.1	19
28	Microsampling for quantitative bioanalysis, an industry update: output from an AAPS/EBF survey. *Bioanalysis*, **2019**, 11, 619-628	2.1	16
27	Rapid analysis of dried blood spot samples with sub-2-□m LC-MS/MS. *Bioanalysis*, **2011**, 3, 411-20	2.1	16
26	DBS and beyond. *Bioanalysis*, **2015**, 7, 1961-2	2.1	15

25	Study to assess the effect of age of control human and animal blood on its suitability for use in quantitative bioanalytical DBS methods. *Bioanalysis*, **2010**, 2, 1373-84	2.1	15
24	Effect of ambient humidity on the rate at which blood spots dry and the size of the spot produced. *Bioanalysis*, **2013**, 5, 1863-71	2.1	11
23	Validation of methods for determining pediatric midazolam using wet whole blood and volumetric absorptive microsampling. *Bioanalysis*, **2019**, 11, 1737-1754	2.1	10
22	European Bioanalysis Forum continued plans to support liquid microsampling. *Bioanalysis*, **2014**, 6, 1897-900	2.1	9
21	Assessment of the within- and between-lot variability of Whatman FTA( ) DMPK and 903( ) DBS papers and their suitability for the quantitative bioanalysis of small molecules. *Bioanalysis*, **2013**, 5, 2613-30	2.1	9
20	Integrating internal and external bioanalytical support to deliver a diversified pharmaceutical portfolio. *Bioanalysis*, **2014**, 6, 1311-9	2.1	8
19	The changing world of bioanalysis: summary of panel discussions. *Bioanalysis*, **2017**, 9, 1175-1179	2.1	6
18	Preliminary investigation into the use of a real-time PCR method for the quantification of an oligonucleotide in human plasma and the development of novel acceptance criteria. *Bioanalysis*, **2014**, 6, 127-36	2.1	6
17	DBS direct elution: optimizing performance in high-throughput quantitative LC-MS/MS analysis. *Bioanalysis*, **2015**, 7, 2003-17	2.1	5
16	Determination of drug concentrations using dried blood spots: investigation of blood sampling and collection techniques in Crl:CD(SD) rats. *Laboratory Animals*, **2011**, 45, 109-13	2.6	5
15	Issues facing the bioanalytical community: summary of round table discussions. *Bioanalysis*, **2016**, 8, 2189-2193	2.1	5
14	Outsourcing strategies in bioanalysis. *Bioanalysis*, **2017**, 9, 1125-1126	2.1	3
13	Optimization of an automated IS addition system for use in high-throughput quantitative DBS analysis. *Bioanalysis*, **2015**, 7, 2763-75	2.1	3
12	Training and microsample collection **2013**, 14-28		3
11	testing of the hemaPEN microsampling device for the quantification of acetaminophen in human blood. *Bioanalysis*, **2020**, 12, 1725-1737	2.1	3
10	Patient-centric sampling special focus issue. *Bioanalysis*, **2020**, 12, 867-868	2.1	1
9	From patient to tube: the importance of physiologically relevant quantitative bioanalytical assays. *Bioanalysis*, **2016**, 8, 2595-2604	2.1	1
8	The business of bioanalysis: summary of panel discussions. *Bioanalysis*, **2018**, 10, 1169-1175	2.1	1

List of Publications

7	Pharmaceutical Perspectives of Use of Dried Blood Spots **2014**, 151-159		1
6	Solid-phase microextraction for assessment of plasma protein binding, a complement to rapid equilibrium dialysis. *Bioanalysis*, **2021**, 13, 1101-1111	2.1	1
5	Reflecting on with the Senior Editors. *Bioanalysis*, **2019**, 11, 557-560	2.1	0
4	Bioanalysis: 10 years of progress. *Bioanalysis*, **2019**, 11, 547-549	2.1	0
3	The current skills gaps in analytical sciences are failing industry: debate at the 21st International Reid Bioanalytical Forum. *Bioanalysis*, **2016**, 8, 1437-9	2.1	
2	An investigation of the comparability of commercially sourced plasma and pharmaceutical study plasma, using total protein concentration. *Bioanalysis*, **2016**, 8, 311-21	2.1	
1	Clinical and Pharmaceutical Solutions through Analysis: Europe 2018. *Bioanalysis*, **2018**, 10, 1251-1253	2.1	