Jack Ballantyne

List of Publications by Year in Descending Order

54 papers	1,960 citations	22 h-index	44 g-index
55 ext. papers	2,162 ext. citations	2.8 avg, IF	5.15 L-index

#	Paper	IF	Citations
54	Probabilistic genotyping of single cell replicates from complex DNA mixtures recovers higher contributor LRs than standard analysis.. *Science and Justice - Journal of the Forensic Science Society*, **2022**, 62, 156-163	2	1
53	Forensic transcriptome analysis using massively parallel sequencing. *Forensic Science International: Genetics*, **2021**, 52, 102486	4.3	9
52	Recovery of single source DNA profiles from mixtures by direct single cell subsampling and simplified micromanipulation. *Science and Justice - Journal of the Forensic Science Society*, **2021**, 61, 13-25	2	4
51	Enhancing the sexual assault workflow: Development of a rapid male screening assay incorporating molecular non-microscopic sperm identification. *Forensic Science International: Genetics Supplement Series*, **2019**, 7, 21-22	0.5	2
50	Assigning forensic body fluids to DNA donors in mixed samples by targeted RNA/DNA deep seqeuncing of coding region SNPs using ion torrent technology. *Forensic Science International: Genetics Supplement Series*, **2019**, 7, 23-24	0.5	5
49	Predicting the origin of stains from whole miRNome massively parallel sequencing data. *Forensic Science International: Genetics*, **2019**, 40, 131-139	4.3	16
48	Single source DNA profile recovery from single cells isolated from skin and fabric from touch DNA mixtures in mock physical assaults. *Science and Justice - Journal of the Forensic Science Society*, **2018**, 58, 191-199	2	12
47	Predicting the origin of stains from next generation sequencing mRNA data. *Forensic Science International: Genetics*, **2018**, 34, 37-48	4.3	33
46	Developmental validation of the ParaDNA Body Fluid ID System-A rapid multiplex mRNA-profiling system for the forensic identification of body fluids. *Forensic Science International: Genetics*, **2018**, 37, 151-161	4.3	11
45	Development of HyBeacon probes for specific mRNA detection using body fluids as a model system. *Molecular and Cellular Probes*, **2018**, 38, 51-59	3.3	5
44	Human Organ Tissue Identification by Targeted RNA Deep Sequencing to Aid the Investigation of Traumatic Injury. *Genes*, **2017**, 8,	4.2	11
43	DNA Damage and Repair in Forensic Science **2016**, 193-214		0
42	Enhanced DNA Profiling of the Semen Donor in Late Reported Sexual Assaults: Use of Y-Chromosome-Targeted Pre-amplification and Next Generation Y-STR Amplification Systems. *Methods in Molecular Biology*, **2016**, 1420, 185-200	1.4	4
41	Developmental validation of the ParaDNA( ) Intelligence System-A novel approach to DNA profiling. *Forensic Science International: Genetics*, **2015**, 17, 137-148	4.3	23
40	Targeted multiplexed next generation RNA sequencing assay for tissue source determination of forensic samples. *Forensic Science International: Genetics Supplement Series*, **2015**, 5, e441-e443	0.5	9
39	Facile semi-automated forensic body fluid identification by multiplex solution hybridization of NanoString barcode probes to specific mRNA targets. *Forensic Science International: Genetics*, **2015**, 14, 18-30	4.3	20
38	Enhanced genetic analysis of single human bioparticles recovered by simplified micromanipulation from forensic touch DNA evidence. *Journal of Visualized Experiments*, **2015**,	1.6	9

37	The identification of menstrual blood in forensic samples by logistic regression modeling of miRNA expression. *Electrophoresis*, **2014**, 35, 3087-95	3.6	24
36	Assessment of DNA damage induced by terrestrial UV irradiation of dried bloodstains: forensic implications. *Forensic Science International: Genetics*, **2014**, 8, 24-32	4.3	21
35	Developmental Validation of the ParaDNA Screening System - A presumptive test for the detection of DNA on forensic evidence items. *Forensic Science International: Genetics*, **2014**, 11, 73-9	4.3	29
34	Binary logistic regression models enable miRNA profiling to provide accurate identification of forensically relevant body fluids and tissues. *Forensic Science International: Genetics Supplement Series*, **2013**, 4, e127-e128	0.5	9
33	Rapid and inexpensive body fluid identification by RNA profiling-based multiplex High Resolution Melt (HRM) analysis. *F1000Research*, **2013**, 2, 281	3.6	17
32	Circulating microRNA for the identification of forensically relevant body fluids. *Methods in Molecular Biology*, **2013**, 1024, 221-34	1.4	14
31	Highly specific mRNA biomarkers for the identification of vaginal secretions in sexual assault investigations. *Science and Justice - Journal of the Forensic Science Society*, **2013**, 53, 14-22	2	72
30	Rapid and inexpensive body fluid identification by RNA profiling-based multiplex High Resolution Melt (HRM) analysis. *F1000Research*, **2013**, 2, 281	3.6	24
29	Performance evaluation and optimization of multiplex PCRs for the highly discriminating OSU 10-locus set Y-STRs. *Journal of Forensic Sciences*, **2012**, 57, 52-9	1.8	2
28	Capillary electrophoresis of a multiplex reverse transcription-polymerase chain reaction to target messenger RNA markers for body fluid identification. *Methods in Molecular Biology*, **2012**, 830, 169-83	1.4	27
27	A blue spectral shift of the hemoglobin soret band correlates with the age (time since deposition) of dried bloodstains. *PLoS ONE*, **2010**, 5, e12830	3.7	50
26	Hydrolysis of DNA and its molecular components in the dry state. *Forensic Science International: Genetics*, **2010**, 4, 168-77	4.3	16
25	Identification of four novel developmentally regulated gamma hemoglobin mRNA isoforms. *Experimental Hematology*, **2009**, 37, 285-93	3.1	1
24	Identification of forensically relevant body fluids using a panel of differentially expressed microRNAs. *Analytical Biochemistry*, **2009**, 387, 303-14	3.1	280
23	A comparative analysis of two different sets of Y-chromosome short tandem repeats (Y-STRs) on a common population panel. *Forensic Science International: Genetics*, **2009**, 4, 11-20	4.3	7
22	Recovery and stability of RNA in vaginal swabs and blood, semen, and saliva stains. *Journal of Forensic Sciences*, **2008**, 53, 296-305	1.8	118
21	Y-STR profiling in extended interval (> or = 3 days) postcoital cervicovaginal samples. *Journal of Forensic Sciences*, **2008**, 53, 342-8	1.8	39
20	Review of: Molecular Photofitting. *Journal of Forensic Sciences*, **2008**, 53, 1010-1010	1.8	

19	Sequence specificity of BAL 31 nuclease for ssDNA revealed by synthetic oligomer substrates containing homopolymeric guanine tracts. *PLoS ONE*, **2008**, 3, e3595	3.7	
18	An ultra-high discrimination Y chromosome short tandem repeat multiplex DNA typing system. *PLoS ONE*, **2007**, 2, e688	3.7	39
17	Population data for 48 RNon-CoreRY chromosome STR loci. *Legal Medicine*, **2007**, 9, 221-31	1.9	6
16	Population data for a novel, highly discriminating tetra-local Y-chromosome short tandem repeat: DYS503. *Journal of Forensic Sciences*, **2007**, 52, 498-9	1.8	2
15	Simplified low-copy-number DNA analysis by post-PCR purification. *Journal of Forensic Sciences*, **2007**, 52, 820-9	1.8	77
14	mRNA profiling for body fluid identification by multiplex quantitative RT-PCR. *Journal of Forensic Sciences*, **2007**, 52, 1252-62	1.8	135
13	Validity of messenger RNA expression analyses of human saliva. *Clinical Cancer Research*, **2007**, 13, 1350; author reply 1351	12.9	17
12	Testing and evaluation of 43 "noncore" Y chromosome markers for forensic casework applications. *Journal of Forensic Sciences*, **2006**, 51, 1298-314	1.8	20
11	The identification of newborns using messenger RNA profiling analysis. *Analytical Biochemistry*, **2006**, 357, 21-34	3.1	19
10	Comprehensive annotated STR physical map of the human Y chromosome: Forensic implications. *Legal Medicine*, **2006**, 8, 110-20	1.9	33
9	Whole genome amplification strategy for forensic genetic analysis using single or few cell equivalents of genomic DNA. *Analytical Biochemistry*, **2005**, 346, 246-57	3.1	55
8	Multiplex mRNA profiling for the identification of body fluids. *Forensic Science International*, **2005**, 152, 1-12	2.6	253
7	An mRNA and DNA co-isolation method for forensic casework samples. *Analytical Biochemistry*, **2004**, 335, 289-98	3.1	74
6	SWGDAM Developmental Validation of a 19-Locus Y-STR System for Forensic Casework. *Journal of Forensic Sciences*, **2004**, 49, 1-16	1.8	23
5	A Highly Discriminating 21 Locus Y-STR ?Megaplex? System Designed to Augment the Minimal Haplotype Loci for Forensic Casework. *Journal of Forensic Sciences*, **2004**, 49, 1-12	1.8	38
4	A highly discriminating 21 locus Y-STR "megaplex" system designed to augment the minimal haplotype loci for forensic casework. *Journal of Forensic Sciences*, **2004**, 49, 40-51	1.8	11
3	SWGDAM developmental validation of a 19-locus Y-STR system for forensic casework. *Journal of Forensic Sciences*, **2004**, 49, 668-83	1.8	5
2	The development of an 18-locus Y-STR system for forensic casework. *Analytical and Bioanalytical Chemistry*, **2003**, 376, 1234-46	4.4	30

1	Messenger RNA profiling: a prototype method to supplant conventional methods for body fluid identification. *Forensic Science International*, **2003**, 135, 85-96	2.6	199