

# Jack Ballantyne

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Identification of forensically relevant body fluids using a panel of differentially expressed microRNAs. <i>Analytical Biochemistry</i> , <b>2009</b> , 387, 303-14	3.1	280
53	Multiplex mRNA profiling for the identification of body fluids. <i>Forensic Science International</i> , <b>2005</b> , 152, 1-12	2.6	253
52	Messenger RNA profiling: a prototype method to supplant conventional methods for body fluid identification. <i>Forensic Science International</i> , <b>2003</b> , 135, 85-96	2.6	199
51	mRNA profiling for body fluid identification by multiplex quantitative RT-PCR. <i>Journal of Forensic Sciences</i> , <b>2007</b> , 52, 1252-62	1.8	135
50	Recovery and stability of RNA in vaginal swabs and blood, semen, and saliva stains. <i>Journal of Forensic Sciences</i> , <b>2008</b> , 53, 296-305	1.8	118
49	Simplified low-copy-number DNA analysis by post-PCR purification. <i>Journal of Forensic Sciences</i> , <b>2007</b> , 52, 820-9	1.8	77
48	An mRNA and DNA co-isolation method for forensic casework samples. <i>Analytical Biochemistry</i> , <b>2004</b> , 335, 289-98	3.1	74
47	Highly specific mRNA biomarkers for the identification of vaginal secretions in sexual assault investigations. <i>Science and Justice - Journal of the Forensic Science Society</i> , <b>2013</b> , 53, 14-22	2	72
46	Whole genome amplification strategy for forensic genetic analysis using single or few cell equivalents of genomic DNA. <i>Analytical Biochemistry</i> , <b>2005</b> , 346, 246-57	3.1	55
45	A blue spectral shift of the hemoglobin soret band correlates with the age (time since deposition) of dried bloodstains. <i>PLoS ONE</i> , <b>2010</b> , 5, e12830	3.7	50
44	An ultra-high discrimination Y chromosome short tandem repeat multiplex DNA typing system. <i>PLoS ONE</i> , <b>2007</b> , 2, e688	3.7	39
43	Y-STR profiling in extended interval (> or = 3 days) postcoital cervicovaginal samples. <i>Journal of Forensic Sciences</i> , <b>2008</b> , 53, 342-8	1.8	39
42	A Highly Discriminating 21 Locus Y-STR ?Megaplex? System Designed to Augment the Minimal Haplotype Loci for Forensic Casework. <i>Journal of Forensic Sciences</i> , <b>2004</b> , 49, 1-12	1.8	38
41	Predicting the origin of stains from next generation sequencing mRNA data. <i>Forensic Science International: Genetics</i> , <b>2018</b> , 34, 37-48	4.3	33
40	Comprehensive annotated STR physical map of the human Y chromosome: Forensic implications. <i>Legal Medicine</i> , <b>2006</b> , 8, 110-20	1.9	33
39	The development of an 18-locus Y-STR system for forensic casework. <i>Analytical and Bioanalytical Chemistry</i> , <b>2003</b> , 376, 1234-46	4.4	30
38	Developmental Validation of the ParaDNA <sup>®</sup> Screening System - A presumptive test for the detection of DNA on forensic evidence items. <i>Forensic Science International: Genetics</i> , <b>2014</b> , 11, 73-9	4.3	29

37	Capillary electrophoresis of a multiplex reverse transcription-polymerase chain reaction to target messenger RNA markers for body fluid identification. <i>Methods in Molecular Biology</i> , <b>2012</b> , 830, 169-83	1.4	27
36	The identification of menstrual blood in forensic samples by logistic regression modeling of miRNA expression. <i>Electrophoresis</i> , <b>2014</b> , 35, 3087-95	3.6	24
35	Rapid and inexpensive body fluid identification by RNA profiling-based multiplex High Resolution Melt (HRM) analysis. <i>F1000Research</i> , <b>2013</b> , 2, 281	3.6	24
34	Developmental validation of the ParaDNA( ) Intelligence System-A novel approach to DNA profiling. <i>Forensic Science International: Genetics</i> , <b>2015</b> , 17, 137-148	4.3	23
33	SWGDM Developmental Validation of a 19-Locus Y-STR System for Forensic Casework. <i>Journal of Forensic Sciences</i> , <b>2004</b> , 49, 1-16	1.8	23
32	Assessment of DNA damage induced by terrestrial UV irradiation of dried bloodstains: forensic implications. <i>Forensic Science International: Genetics</i> , <b>2014</b> , 8, 24-32	4.3	21
31	Facile semi-automated forensic body fluid identification by multiplex solution hybridization of NanoString barcode probes to specific mRNA targets. <i>Forensic Science International: Genetics</i> , <b>2015</b> , 14, 18-30	4.3	20
30	Testing and evaluation of 43 "noncore" Y chromosome markers for forensic casework applications. <i>Journal of Forensic Sciences</i> , <b>2006</b> , 51, 1298-314	1.8	20
29	The identification of newborns using messenger RNA profiling analysis. <i>Analytical Biochemistry</i> , <b>2006</b> , 357, 21-34	3.1	19
28	Rapid and inexpensive body fluid identification by RNA profiling-based multiplex High Resolution Melt (HRM) analysis. <i>F1000Research</i> , <b>2013</b> , 2, 281	3.6	17
27	Validity of messenger RNA expression analyses of human saliva. <i>Clinical Cancer Research</i> , <b>2007</b> , 13, 1350; author reply 1351	12.9	17
26	Hydrolysis of DNA and its molecular components in the dry state. <i>Forensic Science International: Genetics</i> , <b>2010</b> , 4, 168-77	4.3	16
25	Predicting the origin of stains from whole miRNome massively parallel sequencing data. <i>Forensic Science International: Genetics</i> , <b>2019</b> , 40, 131-139	4.3	16
24	Circulating microRNA for the identification of forensically relevant body fluids. <i>Methods in Molecular Biology</i> , <b>2013</b> , 1024, 221-34	1.4	14
23	Single source DNA profile recovery from single cells isolated from skin and fabric from touch DNA mixtures in mock physical assaults. <i>Science and Justice - Journal of the Forensic Science Society</i> , <b>2018</b> , 58, 191-199	2	12
22	Developmental validation of the ParaDNA Body Fluid ID System-A rapid multiplex mRNA-profiling system for the forensic identification of body fluids. <i>Forensic Science International: Genetics</i> , <b>2018</b> , 37, 151-161	4.3	11
21	Human Organ Tissue Identification by Targeted RNA Deep Sequencing to Aid the Investigation of Traumatic Injury. <i>Genes</i> , <b>2017</b> , 8,	4.2	11
20	A highly discriminating 21 locus Y-STR "megaplex" system designed to augment the minimal haplotype loci for forensic casework. <i>Journal of Forensic Sciences</i> , <b>2004</b> , 49, 40-51	1.8	11

19	Targeted multiplexed next generation RNA sequencing assay for tissue source determination of forensic samples. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2015</b> , 5, e441-e443	0.5	9
18	Binary logistic regression models enable miRNA profiling to provide accurate identification of forensically relevant body fluids and tissues. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2013</b> , 4, e127-e128	0.5	9
17	Enhanced genetic analysis of single human bioparticles recovered by simplified micromanipulation from forensic touch DNA evidence. <i>Journal of Visualized Experiments</i> , <b>2015</b> ,	1.6	9
16	Forensic transcriptome analysis using massively parallel sequencing. <i>Forensic Science International: Genetics</i> , <b>2021</b> , 52, 102486	4.3	9
15	A comparative analysis of two different sets of Y-chromosome short tandem repeats (Y-STRs) on a common population panel. <i>Forensic Science International: Genetics</i> , <b>2009</b> , 4, 11-20	4.3	7
14	Population data for 48 non-core Y chromosome STR loci. <i>Legal Medicine</i> , <b>2007</b> , 9, 221-31	1.9	6
13	Assigning forensic body fluids to DNA donors in mixed samples by targeted RNA/DNA deep sequencing of coding region SNPs using ion torrent technology. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2019</b> , 7, 23-24	0.5	5
12	Development of HyBeacon probes for specific mRNA detection using body fluids as a model system. <i>Molecular and Cellular Probes</i> , <b>2018</b> , 38, 51-59	3.3	5
11	SWGDM developmental validation of a 19-locus Y-STR system for forensic casework. <i>Journal of Forensic Sciences</i> , <b>2004</b> , 49, 668-83	1.8	5
10	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. <i>Methods in Molecular Biology</i> , <b>2016</b> , 1420, 185-200	1.4	4
9	Recovery of single source DNA profiles from mixtures by direct single cell subsampling and simplified micromanipulation. <i>Science and Justice - Journal of the Forensic Science Society</i> , <b>2021</b> , 61, 13-25 <sup>2</sup>		4
8	Performance evaluation and optimization of multiplex PCRs for the highly discriminating OSU 10-locus set Y-STRs. <i>Journal of Forensic Sciences</i> , <b>2012</b> , 57, 52-9	1.8	2
7	Population data for a novel, highly discriminating tetra-local Y-chromosome short tandem repeat: DYS503. <i>Journal of Forensic Sciences</i> , <b>2007</b> , 52, 498-9	1.8	2
6	Enhancing the sexual assault workflow: Development of a rapid male screening assay incorporating molecular non-microscopic sperm identification. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2019</b> , 7, 21-22	0.5	2
5	Identification of four novel developmentally regulated gamma hemoglobin mRNA isoforms. <i>Experimental Hematology</i> , <b>2009</b> , 37, 285-93	3.1	1
4	Probabilistic genotyping of single cell replicates from complex DNA mixtures recovers higher contributor LR than standard analysis. <i>Science and Justice - Journal of the Forensic Science Society</i> , <b>2022</b> , 62, 156-163	2	1
3	DNA Damage and Repair in Forensic Science <b>2016</b> , 193-214		0
2	Review of: Molecular Photofitting. <i>Journal of Forensic Sciences</i> , <b>2008</b> , 53, 1010-1010	1.8	

- 1 Sequence specificity of BAL 31 nuclease for ssDNA revealed by synthetic oligomer substrates containing homopolymeric guanine tracts. *PLoS ONE*, **2008**, 3, e3595 3·7