Jack Ballantyne

List of Publications by Year
in descending order

54 papers	2,410 citations	257101 24 h-index	197535 49 g-index
55 all docs	55 docs citations	55 times ranked	1264 citing authors

#	Article	IF	Citations
1	Identification of forensically relevant body fluids using a panel of differentially expressed microRNAs. Analytical Biochemistry, 2009, 387, 303-314.	1.1	324
2	Multiplex mRNA profiling for the identification of body fluids. Forensic Science International, 2005, 152, 1-12.	1.3	288
3	Messenger RNA profiling: a prototype method to supplant conventional methods for body fluid identification. Forensic Science International, 2003, 135, 85-96.	1.3	229
4	mRNA Profiling for Body Fluid Identification by Multiplex Quantitative RTâ€PCR*. Journal of Forensic Sciences, 2007, 52, 1252-1262.	0.9	175
5	Recovery and Stability of RNA in Vaginal Swabs and Blood, Semen, and Saliva Stains. Journal of Forensic Sciences, 2008, 53, 296-305.	0.9	142
6	An mRNA and DNA co-isolation method for forensic casework samples. Analytical Biochemistry, 2004, 335, 289-298.	1.1	87
7	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.	1.3	86
8	Simplified Low-Copy-Number DNA Analysis by Post-PCR Purification. Journal of Forensic Sciences, 2007, 52, 820-829.	0.9	84
9	A Blue Spectral Shift of the Hemoglobin Soret Band Correlates with the Age (Time Since Deposition) of Dried Bloodstains. PLoS ONE, 2010, 5, e12830.	1.1	75
10	Whole genome amplification strategy for forensic genetic analysis using single or few cell equivalents of genomic DNA. Analytical Biochemistry, 2005, 346, 246-257.	1.1	63
11	An Ultra-High Discrimination Y Chromosome Short Tandem Repeat Multiplex DNA Typing System. PLoS ONE, 2007, 2, e688.	1.1	50
12	Predicting the origin of stains from next generation sequencing mRNA data. Forensic Science International: Genetics, 2018, 34, 37-48.	1.6	46
13	A Highly Discriminating 21 Locus Y-STR Â“MegaplexÂ” System Designed to Augment the Minimal Haplotype Loci for Forensic Casework. Journal of Forensic Sciences, 2004, 49, 1-12.	0.9	46
14	Y-STR Profiling in Extended Interval (â‰¥3Âdays) Postcoital Cervicovaginal Samples. Journal of Forensic Sciences, 2008, 53, 342-348.	0.9	45
15	Comprehensive annotated STR physical map of the human Y chromosome: Forensic implications. Legal Medicine, 2006, 8, 110-120.	0.6	38
16	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, 169-183.	0.4	37
17	Rapid and inexpensive body fluid identification by RNA profiling-based multiplex High Resolution Melt (HRM) analysis. F1000Research, 2013, 2, 281.	0.8	36
18	The development of an 18-locus Y-STR system for forensic casework. Analytical and Bioanalytical Chemistry, 2003, 376, 1234-1246.	1.9	31

#	Article	IF	Citations
19	Assessment of DNA damage induced by terrestrial UV irradiation of dried bloodstains: Forensic implications. Forensic Science International: Genetics, 2014, 8, 24-32.	1.6	31
20	Developmental Validation of the ParaDNAÂ® Screening System - A presumptive test for the detection of DNA on forensic evidence items. Forensic Science International: Genetics, 2014, 11, 73-79.	1.6	30
21	SWGDAM Developmental Validation of a 19-Locus Y-STR System for Forensic Casework. Journal of Forensic Sciences, 2004, 49, 1-16.	0.9	29
22	The identification of menstrual blood in forensic samples by logistic regression modeling of miRNA expression. Electrophoresis, 2014, 35, 3087-3095.	1.3	28
23	Facile semi-automated forensic body fluid identification by multiplex solution hybridization of NanoStringÂ® barcode probes to specific mRNA targets. Forensic Science International: Genetics, 2015, 14, 18-30.	1.6	28
24	Developmental validation of the ParaDNA Â® Intelligence Systemâ€"A novel approach to DNA profiling. Forensic Science International: Genetics, 2015, 17, 137-148.	1.6	27
25	Forensic transcriptome analysis using massively parallel sequencing. Forensic Science International: Genetics, 2021, 52, 102486.	1.6	26
26	Testing and Evaluation of 43 "Noncore" Y Chromosome Markers for Forensic Casework Applications. Journal of Forensic Sciences, 2006, 51, 1298-1314.	0.9	25
27	Predicting the origin of stains from whole miRNome massively parallel sequencing data. Forensic Science International: Genetics, 2019, 40, 131-139.	1.6	25
28	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.	1.3	24
29	The identification of newborns using messenger RNA profiling analysis. Analytical Biochemistry, 2006, 357, 21-34.	1.1	22
30	Hydrolysis of DNA and its molecular components in the dry state. Forensic Science International: Genetics, 2010, 4, 168-177.	1.6	21
31	Developmental validation of the ParaDNAÂ® Body Fluid ID Systemâ€"A rapid multiplex mRNA-profiling system for the forensic identification of body fluids. Forensic Science International: Genetics, 2018, 37, 151-161.	1.6	19
32	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.	1.3	19
33	Validity of Messenger RNA Expression Analyses of Human Saliva. Clinical Cancer Research, 2007, 13, 1350-1350.	3.2	18
34	Rapid and inexpensive body fluid identification by RNA profiling-based multiplex High Resolution Melt (HRM) analysis. F1000Research, 2013, 2, 281.	0.8	18
35	Circulating MicroRNA for the Identification of Forensically Relevant Body Fluids. Methods in Molecular Biology, 2013, 1024, 221-234.	0.4	17
36	Enhanced Genetic Analysis of Single Human Bioparticles Recovered by Simplified Micromanipulation from Forensic ‘Touch DNA’ Evidence. Journal of Visualized Experiments, 2015, , .	0.2	16

#	Article	IF	Citations
37	Human Organ Tissue Identification by Targeted RNA Deep Sequencing to Aid the Investigation of Traumatic Injury. Genes, 2017, 8, 319.	1.0	14
38	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.	0.9	12
39	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.	0.1	11
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.	0.1	10
41	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.	1.3	10
42	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.	1.6	8
43	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.	0.1	7
44	Population data for 48 â€˜Non-Coreâ€™ Y chromosome STR loci. Legal Medicine, 2007, 9, 221-231.	0.6	6
45	Development of HyBeaconÂ® probes for specific mRNA detection using body fluids as a model system. Molecular and Cellular Probes, 2018, 38, 51-59.	0.9	6
46	SWGDAM developmental validation of a 19-locus Y-STR system for forensic casework. Journal of Forensic Sciences, 2004, 49, 668-83.	0.9	6
47	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.	0.1	5
48	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.	0.4	4
49	Population Data for a Novel, Highly Discriminating Tetra-Local Y-Chromosome Short Tandem Repeat: DYS503. Journal of Forensic Sciences, 2007, 52, 498-499.	0.9	2
50	Performance Evaluation and Optimization of Multiplex PCRs for the Highly Discriminating OSU 10â€Locus Set Yâ€STRs*^{,â€}. Journal of Forensic Sciences, 2012, 57, 52-59.	0.9	2
51	Identification of four novel developmentally regulated gamma hemoglobin mRNA isoforms. Experimental Hematology, 2009, 37, 285-293.	0.2	1
52	Review of:Molecular Photofitting. Journal of Forensic Sciences, 2008, 53, 1010-1010.	0.9	0
53	Preparation of Forensic Samples for Direct Molecular Applications. , 2009, , .		0
54	Sequence Specificity of BAL 31 Nuclease for ssDNA Revealed by Synthetic Oligomer Substrates Containing Homopolymeric Guanine Tracts. PLoS ONE, 2008, 3, e3595.	1.1	0