

# Peter M Vallone

## List of Publications by Citations

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127  
papers

3,347  
citations

31  
h-index

54  
g-index

131  
ext. papers

3,790  
ext. citations

3  
avg, IF

5.24  
L-index

#	Paper	IF	Citations
127	AutoDimer: a screening tool for primer-dimer and hairpin structures. <i>BioTechniques</i> , <b>2004</b> , 37, 226-31	2.5	346
126	A novel multiplex for simultaneous amplification of 20 Y chromosome STR markers. <i>Forensic Science International</i> , <b>2002</b> , 129, 10-24	2.6	154
125	Predicting sequence-dependent melting stability of short duplex DNA oligomers. <i>Biopolymers</i> , <b>1997</b> , 44, 217-39	2.2	153
124	Inferring continental ancestry of argentineans from Autosomal, Y-chromosomal and mitochondrial DNA. <i>Annals of Human Genetics</i> , <b>2010</b> , 74, 65-76	2.2	122
123	Sequence variation of 22 autosomal STR loci detected by next generation sequencing. <i>Forensic Science International: Genetics</i> , <b>2016</b> , 21, 15-21	4.3	119
122	STR allele sequence variation: Current knowledge and future issues. <i>Forensic Science International: Genetics</i> , <b>2015</b> , 18, 118-30	4.3	114
121	A multiplex allele-specific primer extension assay for forensically informative SNPs distributed throughout the mitochondrial genome. <i>International Journal of Legal Medicine</i> , <b>2004</b> , 118, 147-57	3.1	112
120	STRs vs. SNPs: thoughts on the future of forensic DNA testing. <i>Forensic Science, Medicine, and Pathology</i> , <b>2007</b> , 3, 200-5	1.5	108
119	Allele Frequencies for 15 Autosomal STR Loci on U.S. Caucasian, African American, and Hispanic Populations. <i>Journal of Forensic Sciences</i> , <b>2003</b> , 48, 2003045	1.8	94
118	Revision of the SNPforID 34-plex forensic ancestry test: Assay enhancements, standard reference sample genotypes and extended population studies. <i>Forensic Science International: Genetics</i> , <b>2013</b> , 7, 63-74	4.3	87
117	Performance of a next generation sequencing SNP assay on degraded DNA. <i>Forensic Science International: Genetics</i> , <b>2015</b> , 19, 1-9	4.3	76
116	Evaluating self-declared ancestry of U.S. Americans with autosomal, Y-chromosomal and mitochondrial DNA. <i>Human Mutation</i> , <b>2010</b> , 31, E1875-93	4.7	74
115	A 26plex autosomal STR assay to aid human identity testing*. <i>Journal of Forensic Sciences</i> , <b>2009</b> , 54, 1008-85	3.5	72
114	Inhibition mechanisms of hemoglobin, immunoglobulin G, and whole blood in digital and real-time PCR. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 2569-2583	4.4	66
113	High-throughput Y-STR typing of U.S. populations with 27 regions of the Y chromosome using two multiplex PCR assays. <i>Forensic Science International</i> , <b>2004</b> , 139, 107-21	2.6	63
112	Melting studies of short DNA hairpins: influence of loop sequence and adjoining base pair identity on hairpin thermodynamic stability. <i>Biopolymers</i> , <b>1999</b> , 50, 425-42	2.2	60
111	Forensic performance of two insertion-deletion marker assays. <i>International Journal of Legal Medicine</i> , <b>2012</b> , 126, 725-37	3.1	56

110	Multiplex PCR design strategy used for the simultaneous amplification of 10 Y chromosome short tandem repeat (STR) loci. <i>Analytical and Bioanalytical Chemistry</i> , <b>2003</b> , 375, 333-43	4.4	54
109	Forensic typing of autosomal SNPs with a 29 SNP-multiplex--results of a collaborative EDNAP exercise. <i>Forensic Science International: Genetics</i> , <b>2008</b> , 2, 176-83	4.3	53
108	STRSeq: A catalog of sequence diversity at human identification Short Tandem Repeat loci. <i>Forensic Science International: Genetics</i> , <b>2017</b> , 31, 111-117	4.3	52
107	Demonstration of rapid multiplex PCR amplification involving 16 genetic loci. <i>Forensic Science International: Genetics</i> , <b>2008</b> , 3, 42-5	4.3	46
106	Sequence-based U.S. population data for 27 autosomal STR loci. <i>Forensic Science International: Genetics</i> , <b>2018</b> , 37, 106-115	4.3	44
105	Allele frequencies for 27 Y-STR loci with U.S. Caucasian, African American, and Hispanic samples. <i>Forensic Science International</i> , <b>2006</b> , 156, 250-60	2.6	43
104	Developmental validation of a fully integrated sample-to-profile rapid human identification system for processing single-source reference buccal samples. <i>Forensic Science International: Genetics</i> , <b>2015</b> , 16, 181-194	4.3	41
103	Genotyping of two mutations in the HFE gene using single-base extension and high-performance liquid chromatography. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 620-4	7.8	37
102	Production and certification of NIST Standard Reference Material 2372 Human DNA Quantitation Standard. <i>Analytical and Bioanalytical Chemistry</i> , <b>2009</b> , 394, 1183-92	4.4	34
101	Studies of DNA dumbbells VII: evaluation of the next-nearest-neighbor sequence-dependent interactions in duplex DNA. <i>Biopolymers</i> , <b>1999</b> , 52, 29-56	2.2	34
100	Rapid PCR of STR markers: Applications to human identification. <i>Forensic Science International: Genetics</i> , <b>2015</b> , 18, 90-9	4.3	33
99	Capillary electrophoresis as a tool for optimization of multiplex PCR reactions. <i>Fresenius Journal of Analytical Chemistry</i> , <b>2001</b> , 369, 200-5		33
98	Y-SNP Typing of U.S. African American and Caucasian Samples Using Allele-Specific Hybridization and Primer Extension. <i>Journal of Forensic Sciences</i> , <b>2004</b> , 49, 1-10	1.8	32
97	Developmental validation of the DNAscan[Rapid DNA Analysis]Instrument and expert system for reference sample processing. <i>Forensic Science International: Genetics</i> , <b>2016</b> , 25, 145-156	4.3	32
96	Effective strategies for forensic analysis in the mitochondrial DNA coding region. <i>International Journal of Legal Medicine</i> , <b>2006</b> , 120, 27-32	3.1	31
95	Thermodynamic, spectroscopic, and equilibrium binding studies of DNA sequence context effects in four 40 base pair deoxyoligonucleotides. <i>Biochemistry</i> , <b>2000</b> , 39, 7835-46	3.2	31
94	Developmental validation of the ANDE[Rapid DNA system with FlexPlex]Assay for arrestee and reference buccal swab processing and database searching. <i>Forensic Science International: Genetics</i> , <b>2019</b> , 40, 120-130	4.3	31
93	The impact of common PCR inhibitors on forensic MPS analysis. <i>Forensic Science International: Genetics</i> , <b>2019</b> , 40, 182-191	4.3	29

92	Linkage disequilibrium analysis of D12S391 and vWA in U.S. population and paternity samples. <i>Forensic Science International: Genetics</i> , <b>2011</b> , 5, 538-40	4.3	28
91	Melting studies of short DNA hairpins containing the universal base 5-nitroindole. <i>Nucleic Acids Research</i> , <b>1999</b> , 27, 3589-96	20.1	26
90	Thermodynamic, spectroscopic, and equilibrium binding studies of DNA sequence context effects in six 22-base pair deoxyoligonucleotides. <i>Biochemistry</i> , <b>1999</b> , 38, 11197-208	3.2	26
89	Developmental validation of the PowerPlex <sup>®</sup> 18D System, a rapid STR multiplex for analysis of reference samples. <i>Forensic Science International: Genetics</i> , <b>2013</b> , 7, 129-35	4.3	25
88	Toward increased utility of mtDNA in forensic identifications. <i>Forensic Science International</i> , <b>2004</b> , 146 Suppl, S147-9	2.6	24
87	Allele frequencies for 70 autosomal SNP loci with U.S. Caucasian, African-American, and Hispanic samples. <i>Forensic Science International</i> , <b>2005</b> , 149, 279-86	2.6	23
86	International Comparison of Enumeration-Based Quantification of DNA Copy-Concentration Using Flow Cytometric Counting and Digital Polymerase Chain Reaction. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 12169-12176	7.8	22
85	The role of the loop in binding of an actinomycin D analog to hairpins formed by single-stranded DNA. <i>Archives of Biochemistry and Biophysics</i> , <b>2000</b> , 384, 199-203	4.1	21
84	Report on ISFG SNP Panel Discussion. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2008</b> , 1, 471-472	0.5	20
83	Cautionary Note on Contamination of Reagents Used for Molecular Detection of SARS-CoV-2. <i>Clinical Chemistry</i> , <b>2020</b> , 66, 1369-1372	5.5	20
82	Allele frequencies for 15 autosomal STR loci on U.S. Caucasian, African American, and Hispanic populations. <i>Journal of Forensic Sciences</i> , <b>2003</b> , 48, 908-11	1.8	20
81	Forensic ancestry analysis with two capillary electrophoresis ancestry informative marker (AIM) panels: Results of a collaborative EDNAP exercise. <i>Forensic Science International: Genetics</i> , <b>2015</b> , 19, 56-67	4.3	18
80	D5S2500 is an ambiguously characterized STR: Identification and description of forensic microsatellites in the genomics age. <i>Forensic Science International: Genetics</i> , <b>2016</b> , 23, 19-24	4.3	18
79	Sequence-based US population data for the SE33 locus. <i>Electrophoresis</i> , <b>2018</b> , 39, 2694-2701	3.6	18
78	Accurate Digital Polymerase Chain Reaction Quantification of Challenging Samples Applying Inhibitor-Tolerant DNA Polymerases. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1642-1649	7.8	17
77	Collaborative EDNAP exercise on the IrisPlex system for DNA-based prediction of human eye colour. <i>Forensic Science International: Genetics</i> , <b>2014</b> , 11, 241-51	4.3	17
76	Autosomal SNP typing of forensic samples with the GenPlex <sup>®</sup> HID System: results of a collaborative study. <i>Forensic Science International: Genetics</i> , <b>2011</b> , 5, 369-75	4.3	16
75	Quality control of PCR primers used in multiplex STR amplification reactions. <i>Forensic Science International</i> , <b>2001</b> , 119, 87-96	2.6	16

74	Characterization of NIST human mitochondrial DNA SRM-2392 and SRM-2392-I standard reference materials by next generation sequencing. <i>Forensic Science International: Genetics</i> , <b>2017</b> , 29, 181-192	4.3	15
73	Evidence for multi-copy Mega-NUMTs in the human genome. <i>Nucleic Acids Research</i> , <b>2021</b> , 49, 1517-1531	10.1	15
72	The next dimension in STR sequencing: Polymorphisms in flanking regions and their allelic associations. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2015</b> , 5, e121-e123	0.5	14
71	Sequence-based analysis of stutter at STR loci: Characterization and utility. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2015</b> , 5, e456-e458	0.5	14
70	The impact of additional Y-STR loci on resolving common haplotypes and closely related individuals. <i>Forensic Science International: Genetics</i> , <b>2007</b> , 1, 215-7	4.3	14
69	Forensic application of the Affymetrix human mitochondrial resequencing array. <i>Forensic Science International: Genetics</i> , <b>2007</b> , 1, 196-8	4.3	14
68	Calculating sequence-dependent melting stability of duplex DNA oligomers and multiplex sequence analysis by graphs. <i>Methods in Enzymology</i> , <b>2001</b> , 340, 165-92	1.7	14
67	Ethical publication of research on genetics and genomics of biological material: guidelines and recommendations. <i>Forensic Science International: Genetics</i> , <b>2020</b> , 48, 102299	4.3	13
66	Rapid PCR protocols for forensic DNA typing on six thermal cycling platforms. <i>Electrophoresis</i> , <b>2014</b> , 35, 3053-61	3.6	13
65	NIST validation studies on the 3500 Genetic Analyzer. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2011</b> , 3, e184-e185	0.5	13
64	Identification of West Eurasian mitochondrial haplogroups by mtDNA SNP screening: results of the 2006-2007 EDNAP collaborative exercise. <i>Forensic Science International: Genetics</i> , <b>2008</b> , 2, 61-8	4.3	13
63	Allele frequency distribution of twelve X-chromosomal short tandem repeat markers in four U.S. population groups. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2011</b> , 3, e481-e483	0.5	12
62	Rapid amplification of commercial STR typing kits. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2009</b> , 2, 111-112	0.5	12
61	Results of the 2018 Rapid DNA Maturity Assessment. <i>Journal of Forensic Sciences</i> , <b>2020</b> , 65, 953-959	1.8	11
60	One in seven pathogenic variants can be challenging to detect by NGS: an analysis of 450,000 patients with implications for clinical sensitivity and genetic test implementation. <i>Genetics in Medicine</i> , <b>2021</b> , 23, 1673-1680	8.1	10
59	SNP genotyping using multiplex single base primer extension assays. <i>Methods in Molecular Biology</i> , <b>2009</b> , 578, 379-91	1.4	9
58	Estimating number of contributors in massively parallel sequencing data of STR loci. <i>Forensic Science International: Genetics</i> , <b>2019</b> , 38, 15-22	4.3	9
57	Mitochondrial DNA typing screens with control region and coding region SNPs. <i>Journal of Forensic Sciences</i> , <b>2005</b> , 50, 377-85	1.8	9

56	Studies of DNA dumbbells VIII. Melting analysis of DNA dumbbells with dinucleotide repeat stem sequences. <i>Biopolymers</i> , <b>2006</b> , 82, 199-221	2.2	8
55	A strategy for examining complex mixtures of deoxyoligonucleotides using ion-pair-reverse-phase high-performance liquid chromatography, matrix-assisted laser desorption ionization time-of-flight mass spectrometry, and informatics. <i>Analytical Biochemistry</i> , <b>2002</b> , 304, 257-65	3.1	8
54	Classification of STR allelic variation using massively parallel sequencing and assessment of flanking region power. <i>Forensic Science International: Genetics</i> , <b>2020</b> , 48, 102356	4.3	8
53	Determining Performance Metrics for Targeted Next-Generation Sequencing Panels Using Reference Materials. <i>Journal of Molecular Diagnostics</i> , <b>2018</b> , 20, 583-590	5.1	7
52	Forensic performance of insertion-deletion marker systems. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2011</b> , 3, e443-e444	0.5	7
51	Corrigendum to "Linkage disequilibrium analysis of D12S391 and vWA in U.S. population and paternity samples" [Forensic Sci. Int.: Genet. (in press), doi:10.1016/j.fsigen.2010.09.003]. <i>Forensic Science International: Genetics</i> , <b>2011</b> , 5, 541-542	4.3	7
50	Development and usage of a NIST standard reference material for real time PCR quantitation of human DNA. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2008</b> , 1, 80-82	0.5	7
49	Understanding the characteristics of sequence-based single-source DNA profiles. <i>Forensic Science International: Genetics</i> , <b>2020</b> , 44, 102192	4.3	7
48	Platinum-Quality Mitogenome Haplotypes from United States Populations. <i>Genes</i> , <b>2020</b> , 11,	4.2	7
47	Y-SNP typing of U.S. African American and Caucasian samples using allele-specific hybridization and primer extension. <i>Journal of Forensic Sciences</i> , <b>2004</b> , 49, 723-32	1.8	7
46	DNA purification from crude samples for human identification using gradient elution isotachopheresis. <i>Electrophoresis</i> , <b>2013</b> , 34, 2522-30	3.6	6
45	Allele frequencies for 40 autosomal SNP loci typed for US population samples using electrospray ionization mass spectrometry. <i>Croatian Medical Journal</i> , <b>2013</b> , 54, 225-31	1.6	5
44	Concordance study of direct PCR kits: PowerPlex 18D and Identifiler Direct. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2011</b> , 3, e353-e354	0.5	5
43	Sequencing of the highly polymorphic STR locus SE33. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2017</b> , 6, e322-e323	0.5	4
42	Comparison of base composition analysis and Sanger sequencing of mitochondrial DNA for four U.S. population groups. <i>Forensic Science International: Genetics</i> , <b>2014</b> , 8, 226-32	4.3	4
41	Rapid DNA maturity assessment. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2015</b> , 5, e1-e0.5		4
40	Genotyping SNPs using a UV-photocleavable oligonucleotide in MALDI-TOF MS. <i>Methods in Molecular Biology</i> , <b>2005</b> , 297, 169-78	1.4	4
39	An interlaboratory study of complex variant detection		4

38	Characterization and performance of new MiniSTR loci for typing degraded samples. <i>International Congress Series</i> , <b>2006</b> , 1288, 504-506		3
37	One in seven pathogenic variants can be challenging to detect by NGS: An analysis of 450,000 patients with implications for clinical sensitivity and genetic test implementation		3
36	Examining performance and likelihood ratios for two likelihood ratio systems using the PROVEDIt dataset. <i>PLoS ONE</i> , <b>2021</b> , 16, e0256714	3.7	3
35	Beyond the STRs: A comprehensive view of current forensic DNA markers characterized in the PCR-based DNA profiling standard SRM 2391D. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2017</b> , 6, e426-e427	0.5	2
34	The tao of MPS: Common novel variants. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2017</b> , 6, e579-e581	0.5	2
33	Establishing traceability to NIST SRM 2391c: PCR-Based DNA Profiling Standard. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2015</b> , 5, e112-e113	0.5	2
32	Characterization of U.S. population samples using a 34plex ancestry informative SNP multiplex. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2011</b> , 3, e182-e183	0.5	2
31	New autosomal STR loci. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2008</b> , 1, 95-96	0.5	2
30	Setting standards and developing technology to aid the human identity testing community. <i>International Congress Series</i> , <b>2006</b> , 1288, 628-635		2
29	RNA reference materials with defined viral RNA loads of SARS-CoV-2-A useful tool towards a better PCR assay harmonization.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0262656	3.7	2
28	A multi-dimensional evaluation of the 'NIST 1032' sample set across four forensic Y-STR multiplexes.. <i>Forensic Science International: Genetics</i> , <b>2021</b> , 57, 102655	4.3	2
27	Understanding the behavior of stutter through the sequencing of STR alleles. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2019</b> , 7, 115-116	0.5	2
26	Unleashing novel STRs via characterization of genome in a bottle reference samples. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2019</b> , 7, 218-220	0.5	2
25	Are reported likelihood ratios well calibrated?. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2019</b> , 7, 572-574	0.5	2
24	Exploring DNA interpretation software using the PROVEDIt dataset. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2019</b> , 7, 724-726	0.5	2
23	Affine analysis for quantitative PCR measurements. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 7977-7988	4.4	2
22	Predicting sequence-dependent melting stability of short duplex DNA oligomers		2
21	Predicting sequence-dependent melting stability of short duplex DNA oligomers <b>1997</b> , 44, 217		2

20	Initial assessment of the Precision ID Globalfiler Mixture ID panel on the Ion Torrent S5XL DNA sequencer and Converge v2.0 software. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2017</b> , 6, e94-e95	0.5	1
19	Estimation of extraction efficiency by droplet digital PCR. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2019</b> , 7, 515-517	0.5	1
18	Characterization of NIST standard reference materials by next generation sequencing. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2013</b> , 4, e97-e98	0.5	1
17	Recertification of the NIST Standard Reference Material 2372, human DNA quantitation standard. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2013</b> , 4, e256-e257	0.5	1
16	SNP typing of forensic samples with the GenPlex HID system: A collaborative study. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2009</b> , 2, 508-509	0.5	1
15	The evaluation of an autosomal SNP 12-plex assay. <i>International Congress Series</i> , <b>2006</b> , 1288, 61-63		1
14	Multiplexed assays for evaluation of Y-SNP markers in US populations. <i>International Congress Series</i> , <b>2004</b> , 1261, 85-87		1
13	Capillary electrophoresis of an 11-plex mtDNA coding region SNP single base extension assay for discrimination of the most common Caucasian HV1/HV2 mitotype. <i>Methods in Molecular Biology</i> , <b>2012</b> , 830, 159-67	1.4	1
12	Melting studies of short DNA hairpins: Influence of loop sequence and adjoining base pair identity on hairpin thermodynamic stability <b>1999</b> , 50, 425		1
11	Sequence variation observed in 27 Y-STR markers with U.S. population samples. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2019</b> , 7, 520-521	0.5	0
10	A response to a correspondence letter by Buckleton et al. on: Riman et al. (2021) Examining performance and likelihood ratios for two likelihood ratio systems using the PROVEDIT dataset, PLoS One 16(9):e0256714.. <i>Forensic Science International: Genetics</i> , <b>2022</b> , 102710	4.3	0
9	Performing a BLAST search of the STRSeq BioProject. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2017</b> , 6, e372-e374	0.5	
8	Investigating the effects of different library preparation protocols on STR sequencing. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2017</b> , 6, e418-e420	0.5	
7	A Strategy for Characterization of Single Nucleotide Polymorphisms in a Reference Material. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2015</b> , 5, e363-e364	0.5	
6	Sequence-based U.S. population data for 7 X-STR loci. <i>Forensic Science International: Reports</i> , <b>2020</b> , 2, 100160	1.9	
5	Additional sequence characterization of NIST SRM 2391c: PCR-Based DNA Profiling Standard. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2013</b> , 4, e133-e134	0.5	
4	Uses of the NIST 26plex STR assay for human identity testing. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2009</b> , 2, 29-30	0.5	
3	Highly multiplexed assays for measuring polymorphisms on the Y-chromosome. <i>International Congress Series</i> , <b>2003</b> , 1239, 301-305		



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| 2 | Sequencing of full mitochondrial genomes for NIST population samples. <i>Forensic Science International: Genetics Supplement Series</i> , <b>2019</b> , 7, 452-453   | 0.5 |
| 1 | Massively parallel sequencing data of 31 autosomal STR loci obtained using the Precision ID GlobalFiler NGS STR Panel v2 for 82 Japanese population samples.. <i>Legal Medicine</i> , <b>2022</b> , 58, 102082 | 1.9 |