

# Jim F Huggett

## List of Publications by Citations

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111  
papers

17,994  
citations

40  
h-index

126  
g-index

126  
ext. papers

21,045  
ext. citations

7.3  
avg, IF

6.28  
L-index

#	Paper	IF	Citations
111	The MIQE guidelines: minimum information for publication of quantitative real-time PCR experiments. <i>Clinical Chemistry</i> , <b>2009</b> , 55, 611-22	5.5	9710
110	Real-time RT-PCR normalisation; strategies and considerations. <i>Genes and Immunity</i> , <b>2005</b> , 6, 279-84	4.4	1346
109	Validation of housekeeping genes for normalizing RNA expression in real-time PCR. <i>BioTechniques</i> , <b>2004</b> , 37, 112-4, 116, 118-9	2.5	729
108	The digital MIQE guidelines: Minimum Information for Publication of Quantitative Digital PCR Experiments. <i>Clinical Chemistry</i> , <b>2013</b> , 59, 892-902	5.5	554
107	The implications of using an inappropriate reference gene for real-time reverse transcription PCR data normalization. <i>Analytical Biochemistry</i> , <b>2005</b> , 344, 141-3	3.1	493
106	Considerations for digital PCR as an accurate molecular diagnostic tool. <i>Clinical Chemistry</i> , <b>2015</b> , 61, 79-85	3.5	291
105	Comparison of microfluidic digital PCR and conventional quantitative PCR for measuring copy number variation. <i>Nucleic Acids Research</i> , <b>2012</b> , 40, e82	20.1	283
104	Evaluation of digital PCR for absolute DNA quantification. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 6474-84	7.8	239
103	Towards standardisation of cell-free DNA measurement in plasma: controls for extraction efficiency, fragment size bias and quantification. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 6499-512	4.4	204
102	The need for transparency and good practices in the qPCR literature. <i>Nature Methods</i> , <b>2013</b> , 10, 1063-7	21.6	197
101	Lung remodeling in pulmonary tuberculosis. <i>Journal of Infectious Diseases</i> , <b>2005</b> , 192, 1201-9	7	177
100	Accurate and rapid identification of bacterial species from positive blood cultures with a DNA-based microarray platform: an observational study. <i>Lancet, The</i> , <b>2010</b> , 375, 224-30	40	164
99	Differential susceptibility of PCR reactions to inhibitors: an important and unrecognised phenomenon. <i>BMC Research Notes</i> , <b>2008</b> , 1, 70	2.3	150
98	Evaluation of digital PCR for absolute RNA quantification. <i>PLoS ONE</i> , <b>2013</b> , 8, e75296	3.7	122
97	qPCR primer design revisited. <i>Biomolecular Detection and Quantification</i> , <b>2017</b> , 14, 19-28	12	109
96	Rapid and accurate detection of Mycobacterium tuberculosis in sputum samples by Cepheid Xpert MTB/RIF assay—a clinical validation study. <i>PLoS ONE</i> , <b>2011</b> , 6, e20458	3.7	108
95	Methods for applying accurate digital PCR analysis on low copy DNA samples. <i>PLoS ONE</i> , <b>2013</b> , 8, e58173	3.7	106

94	Comparative study of sensitivity, linearity, and resistance to inhibition of digital and nondigital polymerase chain reaction and loop mediated isothermal amplification assays for quantification of human cytomegalovirus. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 4387-94	7.8	101
93	Fundamentals of multiplexing with digital PCR. <i>Biomolecular Detection and Quantification</i> , <b>2016</b> , 10, 15-23	2.3	100
92	Integrating informatics tools and portable sequencing technology for rapid detection of resistance to anti-tuberculous drugs. <i>Genome Medicine</i> , <b>2019</b> , 11, 41	14.4	95
91	Utility of the antigen-specific interferon-gamma assay for the management of tuberculosis. <i>Current Opinion in Pulmonary Medicine</i> , <b>2005</b> , 11, 195-202	3	95
90	A comparison of miRNA isolation and RT-qPCR technologies and their effects on quantification accuracy and repeatability. <i>BioTechniques</i> , <b>2013</b> , 54, 155-64	2.5	91
89	Development and evaluation of a real-time PCR assay for detection of <i>Pneumocystis jirovecii</i> DNA in bronchoalveolar lavage fluid of HIV-infected patients. <i>Thorax</i> , <b>2008</b> , 63, 154-9	7.3	91
88	The Digital MIQE Guidelines Update: Minimum Information for Publication of Quantitative Digital PCR Experiments for 2020. <i>Clinical Chemistry</i> , <b>2020</b> , 66, 1012-1029	5.5	85
87	Rapid diagnosis of tuberculosis through the detection of mycobacterial DNA in urine by nucleic acid amplification methods. <i>Lancet Infectious Diseases</i> , <b>2009</b> , 9, 505-11	25.5	81
86	Development of a highly sensitive liquid biopsy platform to detect clinically-relevant cancer mutations at low allele fractions in cell-free DNA. <i>PLoS ONE</i> , <b>2018</b> , 13, e0194630	3.7	81
85	Highly reproducible absolute quantification of <i>Mycobacterium tuberculosis</i> complex by digital PCR. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 3706-13	7.8	71
84	Different screening strategies (single or dual) for the diagnosis of suspected latent tuberculosis: a cost effectiveness analysis. <i>BMC Pulmonary Medicine</i> , <b>2010</b> , 10, 7	3.5	61
83	Low sensitivity of a urine LAM-ELISA in the diagnosis of pulmonary tuberculosis. <i>BMC Infectious Diseases</i> , <b>2009</b> , 9, 141	4	57
82	Considerations for accurate gene expression measurement by reverse transcription quantitative PCR when analysing clinical samples. <i>Analytical and Bioanalytical Chemistry</i> , <b>2014</b> , 406, 6471-83	4.4	56
81	Minimum information necessary for quantitative real-time PCR experiments. <i>Methods in Molecular Biology</i> , <b>2014</b> , 1160, 5-17	1.4	52
80	Primer sequence disclosure: a clarification of the MIQE guidelines. <i>Clinical Chemistry</i> , <b>2011</b> , 57, 919-21	5.5	52
79	RT-qPCR and RT-Digital PCR: A Comparison of Different Platforms for the Evaluation of Residual Disease in Chronic Myeloid Leukemia. <i>Clinical Chemistry</i> , <b>2017</b> , 63, 525-531	5.5	51
78	In vivo and in vitro studies of a novel cytokine, interleukin 4delta2, in pulmonary tuberculosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2005</b> , 172, 501-8	10.2	51
77	Application of next generation qPCR and sequencing platforms to mRNA biomarker analysis. <i>Methods</i> , <b>2013</b> , 59, 89-100	4.6	48

76	Detection of Rare Drug Resistance Mutations by Digital PCR in a Human Influenza A Virus Model System and Clinical Samples. <i>Journal of Clinical Microbiology</i> , <b>2016</b> , 54, 392-400	9.7	45
75	<i>Mycobacterium tuberculosis</i> induces selective up-regulation of TLRs in the mononuclear leukocytes of patients with active pulmonary tuberculosis. <i>Journal of Immunology</i> , <b>2006</b> , 176, 3010-8	5.3	43
74	The open reading frame of the Na(+)-dependent glutamate transporter GLAST-1 is expressed in bone and a splice variant of this molecule is expressed in bone and brain. <i>FEBS Letters</i> , <b>2000</b> , 485, 13-8	3.8	43
73	Implications of storing urinary DNA from different populations for molecular analyses. <i>PLoS ONE</i> , <b>2009</b> , 4, e6985	3.7	40
72	Variation in gamma interferon responses to different infecting strains of <i>Mycobacterium tuberculosis</i> in acid-fast bacillus smear-positive patients and household contacts in Antananarivo, Madagascar. <i>Vaccine Journal</i> , <b>2010</b> , 17, 1094-103		37
71	The use of digital PCR to improve the application of quantitative molecular diagnostic methods for tuberculosis. <i>BMC Infectious Diseases</i> , <b>2016</b> , 16, 366	4	33
70	Standardisation and reporting for nucleic acid quantification. <i>Accreditation and Quality Assurance</i> , <b>2011</b> , 16, 399-405	0.7	33
69	Discordant bioinformatic predictions of antimicrobial resistance from whole-genome sequencing data of bacterial isolates: an inter-laboratory study. <i>Microbial Genomics</i> , <b>2020</b> , 6,	4.4	33
68	International Interlaboratory Digital PCR Study Demonstrating High Reproducibility for the Measurement of a Rare Sequence Variant. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 1724-1733	7.8	31
67	Quantification of epigenetic biomarkers: an evaluation of established and emerging methods for DNA methylation analysis. <i>BMC Genomics</i> , <b>2014</b> , 15, 1174	4.5	31
66	The variability and reproducibility of whole genome sequencing technology for detecting resistance to anti-tuberculous drugs. <i>Genome Medicine</i> , <b>2016</b> , 8, 132	14.4	31
65	Standardization of Nucleic Acid Tests for Clinical Measurements of Bacteria and Viruses. <i>Journal of Clinical Microbiology</i> , <b>2015</b> , 53, 2008-14	9.7	30
64	Next-Generation Sequencing-Assisted DNA-Based Digital PCR for a Personalized Approach to the Detection and Quantification of Residual Disease in Chronic Myeloid Leukemia Patients. <i>Journal of Molecular Diagnostics</i> , <b>2016</b> , 18, 176-89	5.1	30
63	Gene expression of IL17 and IL23 in the lungs of patients with active tuberculosis. <i>Thorax</i> , <b>2008</b> , 63, 566-8.3		30
62	Unreliable real-time PCR analysis of human endogenous retrovirus-W (HERV-W) RNA expression and DNA copy number in multiple sclerosis. <i>AIDS Research and Human Retroviruses</i> , <b>2009</b> , 25, 377-8; author reply 379-81	1.6	29
61	Tuberculosis: amplification-based clinical diagnostic techniques. <i>International Journal of Biochemistry and Cell Biology</i> , <b>2003</b> , 35, 1407-12	5.6	29
60	The glutamate transporter GLAST-1 (EAAT-1) is expressed in the plasma membrane of osteocytes and is responsive to extracellular glutamate concentration. <i>Biochemical Society Transactions</i> , <b>2002</b> , 30, 890-3	5.1	29
59	Quantitative analysis of human endogenous retrovirus-K transcripts in postmortem premotor cortex fails to confirm elevated expression of HERV-K RNA in amyotrophic lateral sclerosis. <i>Acta Neuropathologica Communications</i> , <b>2019</b> , 7, 45	7.3	28

58	Assessment of Digital PCR as a Primary Reference Measurement Procedure to Support Advances in Precision Medicine. <i>Clinical Chemistry</i> , <b>2018</b> , 64, 1296-1307	5.5	28
57	Clinical features, microbiology and surgical outcomes of infective endocarditis: a 13-year study from a UK tertiary cardiothoracic referral centre. <i>QJM - Monthly Journal of the Association of Physicians</i> , <b>2015</b> , 108, 219-29	2.7	24
56	Inter-laboratory assessment of different digital PCR platforms for quantification of human cytomegalovirus DNA. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 2601-2614	4.4	22
55	Instability of 8E5 calibration standard revealed by digital PCR risks inaccurate quantification of HIV DNA in clinical samples by qPCR. <i>Scientific Reports</i> , <b>2017</b> , 7, 1209	4.9	22
54	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 <sup>22</sup>	7.8	22
53	Expression of a novel cytokine, IL-4delta2, in HIV and HIV-tuberculosis co-infection. <i>Aids</i> , <b>2005</b> , 19, 1601-6.5	6.5	21
52	An assessment of air as a source of DNA contamination encountered when performing PCR. <i>Journal of Biomolecular Techniques</i> , <b>2009</b> , 20, 236-40	1.1	21
51	A novel approach for evaluating the performance of real time quantitative loop-mediated isothermal amplification-based methods. <i>Biomolecular Detection and Quantification</i> , <b>2014</b> , 2, 4-10	12	20
50	Expression of apoptosis-related genes in an Ethiopian cohort study correlates with tuberculosis clinical status. <i>European Journal of Immunology</i> , <b>2010</b> , 40, 291-301	6.1	20
49	Reflections on the white plague. <i>Lancet Infectious Diseases, The</i> , <b>2009</b> , 9, 197-202	25.5	20
48	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
47	Trials and tribulations of an African-led research and capacity development programme: the case for EDCTP investments. <i>Tropical Medicine and International Health</i> , <b>2010</b> , 15, 489-94	2.3	17
46	qPCR, dPCR, NGS - A journey. <i>Biomolecular Detection and Quantification</i> , <b>2015</b> , 3, A1-5	12	16
45	Assessing the accuracy of quantitative molecular microbial profiling. <i>International Journal of Molecular Sciences</i> , <b>2014</b> , 15, 21476-91	6.3	16
44	Considerations for the development and application of control materials to improve metagenomic microbial community profiling. <i>Accreditation and Quality Assurance</i> , <b>2013</b> , 18, 77-83	0.7	15
43	The stability of mRNA encoding IL-4 is increased in pulmonary tuberculosis, while stability of mRNA encoding the antagonistic splice variant, IL-4delta2, is not. <i>Tuberculosis</i> , <b>2007</b> , 87, 237-41	2.6	15
42	Improving the standardization of mRNA measurement by RT-qPCR. <i>Biomolecular Detection and Quantification</i> , <b>2018</b> , 15, 13-17	12	14
41	Ancient DNA (aDNA) studies of man and microbes: general similarities, specific differences. <i>International Journal of Osteoarchaeology</i> , <b>2010</b> , 20, 747-751	1.1	14

40	Detection of complex DNA in CD34-positive peripheral blood mononuclear cells of asymptomatic tuberculosis contacts: an observational study. <i>Lancet Microbe, The</i> , <b>2021</b> , 2, e267-e275	22.2	14
39	Nucleic acid detection and quantification in the developing world. <i>Biochemical Society Transactions</i> , <b>2009</b> , 37, 419-23	5.1	13
38	G6PD deficiency alleles in a malaria-endemic region in the Western Brazilian Amazon. <i>Malaria Journal</i> , <b>2017</b> , 16, 253	3.6	11
37	STROBE-metagenomics: a STROBE extension statement to guide the reporting of metagenomics studies. <i>Lancet Infectious Diseases, The</i> , <b>2020</b> , 20, e251-e260	25.5	11
36	An international comparability study on quantification of mRNA gene expression ratios: CCQM-P103.1. <i>Biomolecular Detection and Quantification</i> , <b>2016</b> , 8, 15-28	12	11
35	Chemical mixtures and fluorescence in situ hybridization analysis of natural microbial community in the Tiber river. <i>Science of the Total Environment</i> , <b>2019</b> , 673, 7-19	10.2	10
34	The pathogen recognition sensor, NOD2, is variably expressed in patients with pulmonary tuberculosis. <i>BMC Infectious Diseases</i> , <b>2007</b> , 7, 96	4	10
33	Quality assessment of biobanked nucleic acid extracts for downstream molecular analysis. <i>Biopreservation and Biobanking</i> , <b>2012</b> , 10, 266-75	2.1	9
32	Seasonal variation in mortality of <i>Pneumocystis jirovecii</i> pneumonia in HIV-infected patients. <i>International Journal of STD and AIDS</i> , <b>2010</b> , 21, 497-503	1.4	9
31	Response to the Letter from Garcia-Montojo and colleagues concerning our paper entitled, Quantitative analysis of human endogenous retrovirus-K transcripts in postmortem premotor cortex fails to confirm elevated expression of HERV-K RNA in amyotrophic lateral sclerosis. <i>Acta Neuropathologica Communications</i> , <b>2019</b> , 7, 102	7.3	7
30	Making standards for quantitative real-time pneumococcal PCR. <i>Biomolecular Detection and Quantification</i> , <b>2014</b> , 2, 1-3	12	7
29	Comparison of SARS-CoV2 N gene real-time RT-PCR targets and commercially available mastermixes		7
28	Interferon gamma assays for tuberculosis. <i>Lancet Infectious Diseases, The</i> , <b>2005</b> , 5, 324-5; author reply 325-7	25.5	6
27	An assessment of the reproducibility of reverse transcription digital PCR quantification of HIV-1. <i>Methods</i> , <b>2021</b> ,	4.6	6
26	Report of the 2019 NIST-FDA workshop on standards for next generation sequencing detection of viral adventitious agents in biologics and biomanufacturing. <i>Biologicals</i> , <b>2020</b> , 64, 76-82	1.8	4
25	Selection of phage-displayed human antibody fragments specific for CD1b presenting the <i>Mycobacterium tuberculosis</i> glycolipid Ac2SGL. <i>International Journal of Mycobacteriology</i> , <b>2016</b> , 5, 120-7 <sup>0.9</sup>		4
24	Phage display of functional single-chain T-cell receptor molecules specific for CD1b:AcBGL complexes from <i>Mycobacterium tuberculosis</i> -infected cells. <i>BMC Immunology</i> , <b>2013</b> , 14 Suppl 1, S2	3.7	4
23	Type 2 cytokines in respiratory syncytial virus bronchiolitis. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2004</b> , 169, 1167-8; author reply 1168	10.2	4

22	Metrological framework to support accurate, reliable, and reproducible nucleic acid measurements. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 414, 791	4.4	4
21	The dangers of using Cq to quantify nucleic acid in biological samples; a lesson from COVID-19. <i>Clinical Chemistry</i> , <b>2021</b> ,	5.5	4
20	The performance of human cytomegalovirus digital PCR reference measurement procedure in seven external quality assessment schemes over four years. <i>Methods</i> , <b>2021</b> ,	4.6	4
19	Digital PCR can augment the interpretation of RT-qPCR Cq values for SARS-CoV-2 diagnostics. <i>Methods</i> , <b>2021</b> ,	4.6	4
18	Comparison of SARS-CoV-2 N gene real-time RT-PCR targets and commercially available mastermixes. <i>Journal of Virological Methods</i> , <b>2021</b> , 295, 114215	2.6	4
17	International interlaboratory study comparing single organism 16S rRNA gene sequencing data: Beyond consensus sequence comparisons. <i>Biomolecular Detection and Quantification</i> , <b>2015</b> , 3, 17-24	12	3
16	Direct processing of clinically relevant large volume samples for the detection of sexually transmitted infectious agents from urine on a microfluidic device. <i>Analytical Methods</i> , <b>2012</b> , 4, 2141	3.2	3
15	<i>Pneumocystis jirovecii</i> in pleural infection: a nucleic acid amplification study. <i>Thorax</i> , <b>2011</b> , 66, 450-1	7.3	3
14	Crohn's disease and MAP. <i>Lancet, The</i> , <b>2004</b> , 364, 2178; author reply 2178-9	4.0	3
13	COVID-19 new diagnostics development: novel detection methods for SARS-CoV-2 infection and considerations for their translation to routine use. <i>Current Opinion in Pulmonary Medicine</i> , <b>2021</b> , 27, 155-162	3.62	3
12	An inter-laboratory study to investigate the impact of the bioinformatics component on microbiome analysis using mock communities. <i>Scientific Reports</i> , <b>2021</b> , 11, 10590	4.9	3
11	Single base mutations in the nucleocapsid gene of SARS-CoV-2 affects amplification efficiency of sequence variants and may lead to assay failure.. <i>Journal of Clinical Virology Plus</i> , <b>2021</b> , 1, 100037		3
10	Problems of developing molecular diagnostic tests for opportunistic pathogens: the example of <i>Pneumocystis jirovecii</i> . <i>Journal of Eukaryotic Microbiology</i> , <b>2006</b> , 53 Suppl 1, S85-6	3.6	2
9	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
8	Current and future challenges in quality assurance in molecular diagnostics. <i>Clinica Chimica Acta</i> , <b>2021</b> , 519, 239-246	6.2	2
7	Systematic review with meta-analysis of diagnostic test accuracy for COVID-19 by mass spectrometry. <i>Metabolism: Clinical and Experimental</i> , <b>2022</b> , 126, 154922	12.7	0
6	Progress in metagenomics requires a balanced appraisal of the available technologies. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , <b>2013</b> , 32, 1097-8	5.3	
5	Future diagnosis of sepsis [AuthorsReply]. <i>Lancet, The</i> , <b>2010</b> , 375, 1780	4.0	

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3 Expression of IL-4 mRNA in peripheral blood mononuclear cells from normal donors in relation to expression of TLR2. *Immunology Letters*, **2006**, 106, 194-7

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2 Taking control of the polymerase chain reaction 129-152

1 Pushing the Envelope with Clinical Use of Digital PCR. *Clinical Chemistry*, **2021**, 67, 921-923

5.5