Stephen A Bustin

List of Publications by Year
in descending order

148	34,474	43973 48	12558 132
papers	citations	h-index	g-index

156	156	156	40704
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The MIQE Guidelines: Minimum Information for Publication of Quantitative Real-Time PCR Experiments. Clinical Chemistry, 2009, 55, 611-622.	1.5	12,487
2	Absolute quantification of mRNA using real-time reverse transcription polymerase chain reaction assays. Journal of Molecular Endocrinology, 2000, 25, 169-193.	1.1	3,314
3	Quantification of mRNA using real-time reverse transcription PCR (RT-PCR): trends and problems. Journal of Molecular Endocrinology, 2002, 29, 23-39.	1.1	2,154
4	Quantification of mRNA using real-time RT-PCR. Nature Protocols, 2006, 1, 1559-1582.	5.5	1,780
5	Real-time RT-PCR normalisation; strategies and considerations. Genes and Immunity, 2005, 6, 279-284.	2.2	1,576
6	Quantitative real-time RT-PCR â€“ a perspective. Journal of Molecular Endocrinology, 2005, 34, 597-601.	1.1	1,096
7	The Tissue Distribution of the mRNA of Ghrelin and Subtypes of Its Receptor, GHS-R, in Humans. Journal of Clinical Endocrinology and Metabolism, 2002, 87, 2988-2991.	1.8	1,082
8	Validation of housekeeping genes for normalizing RNA expression in real-time PCR. BioTechniques, 2004, 37, 112-119.	0.8	838
9	The Digital MIQE Guidelines: Minimum Information for Publication of Quantitative Digital PCR Experiments. Clinical Chemistry, 2013, 59, 892-902.	1.5	723
10	Pitfalls of quantitative real-time reverse-transcription polymerase chain reaction. Journal of Biomolecular Techniques, 2004, 15, 155-66.	0.8	665
11	MIQE prÃ©cis: Practical implementation of minimum standard guidelines for fluorescence-based quantitative real-time PCR experiments. BMC Molecular Biology, 2010, 11, 74.	3.0	563
12	The implications of using an inappropriate reference gene for real-time reverse transcription PCR data normalization. Analytical Biochemistry, 2005, 344, 141-143.	1.1	556
13	Quantitative real-time reverse transcription polymerase chain reaction: normalization to rRNA or single housekeeping genes is inappropriate for human tissue biopsies. Analytical Biochemistry, 2002, 309, 293-300.	1.1	502
14	Real-time reverse transcription PCR (qRT-PCR) and its potential use in clinical diagnosis. Clinical Science, 2005, 109, 365-379.	1.8	405
15	Why the need for qPCR publication guidelines?â€"The case for MIQE. Methods, 2010, 50, 217-226.	1.9	310
16	The GHâ€“IGF-I axis and breast cancer. Trends in Endocrinology and Metabolism, 2003, 14, 28-34.	3.1	268
17	The Expression of the Growth Hormone Secretagogue Receptor Ligand Ghrelin in Normal and Abnormal Human Pituitary and Other Neuroendocrine Tumors1. Journal of Clinical Endocrinology and Metabolism, 2001, 86, 881-887.	1.8	261
18	The need for transparency and good practices in the qPCR literature. Nature Methods, 2013, 10, 1063-1067.	9.0	251

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19	The Digital MIQE Guidelines Update: Minimum Information for Publication of Quantitative Digital PCR Experiments for 2020. Clinical Chemistry, 2020, 66, 1012-1029.	1.5	247
20	Vitamin D Receptor (VDR) mRNA and VDR Protein Levels in Relation to Vitamin D Status, Insulin Secretory Capacity, and VDR Genotype in Bangladeshi Asians. Diabetes, 2002, 51, 2294-2300.	0.3	243
21	SPUD: A quantitative PCR assay for the detection of inhibitors in nucleic acid preparations. Analytical Biochemistry, 2006, 351, 308-310.	1.1	213
22	The Expression of the Growth Hormone Secretagogue Receptor Ligand Ghrelin in Normal and Abnormal Human Pituitary and Other Neuroendocrine Tumors. Journal of Clinical Endocrinology and Metabolism, 2001, 86, 881-887.	1.8	210
23	Tumour-infiltrating lymphocytes in colorectal cancer with microsatellite instability are activated and cytotoxic. British Journal of Surgery, 2004, 91, 469-475.	0.1	198
24	qPCR primer design revisited. Biomolecular Detection and Quantification, 2017, 14, 19-28.	7.0	187
25	Molecular quantification and mapping of lymph-node micrometastases in cervical cancer. Lancet, The, 2001, 357, 15-20.	6.3	169
26	Colorectal cancers with microsatellite instability display mRNA expression signatures characteristic of increased immunogenicity. Molecular Cancer, 2004, 3, 21.	7.9	140
27	RT-qPCR Testing of SARS-CoV-2: A Primer. International Journal of Molecular Sciences, 2020, 21, 3004.	1.8	135
28	Reliability of real-time reverse-transcription PCR in clinical diagnostics: gold standard or substandard?. Expert Review of Molecular Diagnostics, 2009, 9, 187-197.	1.5	128
29	Expression ofPRPF31mRNA in Patients with Autosomal Dominant Retinitis Pigmentosa: A Molecular Clue for Incomplete Penetrance?. , 2003, 44, 4204.		125
30	Real-time, fluorescence-based quantitative PCR: a snapshot of current procedures and preferences. Expert Review of Molecular Diagnostics, 2005, 5, 493-498.	1.5	121
31	Detection of cytokeratins 19/20 and guanylyl cyclase C in peripheral blood of colorectal cancer patients. British Journal of Cancer, 1999, 79, 1813-1820.	2.9	106
32	Proximity assays for sensitive quantification of proteins. Biomolecular Detection and Quantification, 2015, 4, 10-16.	7.0	90
33	Talking the talk, but not walking the walk: RT-qPCR as a paradigm for the lack of reproducibility in molecular research. European Journal of Clinical Investigation, 2017, 47, 756-774.	1.7	86
34	Expression of the Ca2+-Activated Chloride Channel Genes CLCA1 and CLCA2 Is Downregulated in Human Colorectal Cancer. DNA and Cell Biology, 2001, 20, 331-338.	0.9	83
35	Minimum Information Necessary for Quantitative Real-Time PCR Experiments. Methods in Molecular Biology, 2014, 1160, 5-17.	0.4	82
36	The growth hormoneâ€“insulin-like growth factor-I axis and colorectal cancer. Trends in Molecular Medicine, 2001, 7, 447-454.	3.5	80

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37	The mRNA Expression of Cyclo-oxygenase-2 (COX-2) and Vascular Endothelial Growth Factor (VEGF) in Human Breast Cancer. Current Medical Research and Opinion, 2002, 18, 237-241.	0.9	78
38	Real-Time Quantitative PCR, Pathogen Detection and MIQE. Methods in Molecular Biology, 2013, 943, 1-16.	0.4	76
39	Transforming growth factor alpha.. Cell Biology International, 1995, 19, 373-388.	1.4	73
40	Evidence for a link between IGF-I and cancer. European Journal of Endocrinology, 2004, 151 Suppl 1, S17-S22.	1.9	72
41	The role of apoptosis (programmed cell death) in haemopoiesis and the immune system. Blood Reviews, 1993, 7, 63-73.	2.8	70
42	Variability in RT-qPCR assay parameters indicates unreliable SARS-CoV-2 RNA quantification for wastewater surveillance. Water Research, 2021, 203, 117516.	5.3	68
43	Variability of the Reverse Transcription Step: Practical Implications. Clinical Chemistry, 2015, 61, 202-212.	1.5	65
44	Primer Sequence Disclosure: A Clarification of the MIQE Guidelines. Clinical Chemistry, 2011, 57, 919-921.	1.5	63
45	MIQE: A Step Toward More Robust and Reproducible Quantitative PCR. Clinical Chemistry, 2017, 63, 1537-1538.	1.5	62
46	A MIQE-Compliant Real-Time PCR Assay for Aspergillus Detection. PLoS ONE, 2012, 7, e40022.	1.1	54
47	Molecular assessment of tumour stage and disease recurrence using PCR-based assays. Trends in Molecular Medicine, 1998, 4, 389-396.	2.6	52
48	Expression of p53 in colorectal cancer and dysplasia complicating ulcerative colitis. British Journal of Surgery, 2005, 80, 442-444.	0.1	51
49	Vitamin D Metabolism in Peripheral Blood Mononuclear Cells Is Influenced by Chewing â€œBetel Nutâ€• (Areca catechu) and Vitamin D Status. Journal of Clinical Endocrinology and Metabolism, 2006, 91, 2612-2617.	1.8	51
50	The immunogenicity of colorectal cancers with high-degree microsatellite instability. World Journal of Surgical Oncology, 2005, 3, 26.	0.8	50
51	Expression of 25-hydroxyvitamin D-1-Î±-hydroxylase mRNA in individuals with colorectal cancer. Lancet, The, 2002, 359, 1831-1832.	6.3	49
52	Critical appraisal of quantitative PCR results in colorectal cancer research: Can we rely on published qPCR results?. Molecular Oncology, 2014, 8, 813-818.	2.1	49
53	hTERT Expression in Human Breast Cancer and Non-Cancerous Breast Tissue: Correlation with Tumour Stage and c-Myc Expression. Breast Cancer Research and Treatment, 2003, 77, 277-284.	1.1	48
54	Quantification of cytokeratin 20, carcinoembryonic antigen and guanylyl cyclase C mRNA levels in lymph nodes may not predict treatment failure in colorectal cancer patients. International Journal of Cancer, 2004, 108, 412-417.	2.3	46

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55	Microsatellite and chromosomal stable colorectal cancers demonstrate poor immunogenicity and early disease recurrence. Colorectal Disease, 2009, 11, 601-608.	0.7	46
56	The reproducibility of biomedical research: Sleepers awake!. Biomolecular Detection and Quantification, 2014, 2, 35-42.	7.0	46
57	Cautionary Note on Contamination of Reagents Used for Molecular Detection of SARS-CoV-2. Clinical Chemistry, 2020, 66, 1369-1372.	1.5	46
58	Aspergillus-Specific Lateral-Flow Device and Real-Time PCR Testing of Bronchoalveolar Lavage Fluid: a Combination Biomarker Approach for Clinical Diagnosis of Invasive Pulmonary Aspergillosis. Journal of Clinical Microbiology, 2015, 53, 2103-2108.	1.8	45
59	Genetic detection of lymph node micrometastases in patients with colorectal cancer. British Journal of Surgery, 2003, 85, 98-100.	0.1	44
60	The value of microarray techniques for quantitative gene profiling in molecular diagnostics. Trends in Molecular Medicine, 2002, 8, 269-272.	3.5	40
61	Developments in real-time PCR research and molecular diagnostics. Expert Review of Molecular Diagnostics, 2010, 10, 713-715.	1.5	38
62	Reduced expression of the growth hormone and type 1 insulin-like growth factor receptors in human somatotroph tumours and an analysis of possible mutations of the growth hormone receptor. Clinical Endocrinology, 2003, 59, 328-338.	1.2	37
63	Standardisation and reporting for nucleic acid quantification. Accreditation and Quality Assurance, 2011, 16, 399-405.	0.4	36
64	Gene expression profiling for molecular staging and prognosis prediction in colorectal cancer. Expert Review of Molecular Diagnostics, 2004, 4, 599-607.	1.5	35
65	Real-time reverse transcription PCR and the detection of occult disease in colorectal cancer. Molecular Aspects of Medicine, 2006, 27, 192-223.	2.7	35
66	Intracellular expression profiles measured by real-time PCR tomography in the Xenopus laevis oocyte. Nucleic Acids Research, 2008, 36, 387-392.	6.5	35
67	Local Expression of Insulin-Like Growth Factor-I Affects Angiogenesis in Colorectal Cancer. Tumor Biology, 2002, 23, 130-138.	0.8	34
68	ERF-2, the human homologue of the murine Tis11d early response gene. Gene, 1995, 152, 285-286.	1.0	32
69	Expression of HLA Class II in Colorectal Cancer: Evidence for Enhanced Immunogenicity of Microsatellite-Instability-Positive Tumours. Tumor Biology, 2001, 22, 294-298.	0.8	32
70	How to speed up the polymerase chain reaction. Biomolecular Detection and Quantification, 2017, 12, 10-14.	7.0	32
71	Parameters for Successful PCR Primer Design. Methods in Molecular Biology, 2020, 2065, 5-22.	0.4	32
72	Expression of 25-hydroxyvitamin D-1-alpha-hydroxylase, and vitamin D receptor mRNA in normal and malignant breast tissue. Anticancer Research, 2009, 29, 155-7.	0.5	32

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73	Unreliable Real-Time PCR Analysis of Human Endogenous Retrovirus-W (HERV-W) RNA Expression and DNA Copy Number in Multiple Sclerosis. AIDS Research and Human Retroviruses, 2009, 25, 377-378.	0.5	29
74	Altered Monocyte Cyclooxygenase Response to Lipopolysaccharide in Type 1 Diabetes. Diabetes, 2006, 55, 3439-3445.	0.3	28
75	Cloning and Characterization of ERF-1, a Human Member of the Tis11 Family of Early-Response Genes. DNA and Cell Biology, 1994, 13, 449-459.	0.9	27
76	Elevated Levels of RanBP7 mRNA in Colorectal Carcinoma Are Associated with Increased Proliferation and Are Similar to the Transcription Pattern of the Proto-oncogene c-myc. Biochemical and Biophysical Research Communications, 2000, 271, 537-543.	1.0	27
77	Increased levels of insulin-like growth factor binding protein-2 in sera and tumours from patients with colonic neoplasia with and without acromegaly. Clinical Endocrinology, 2001, 54, 499-508.	1.2	27
78	Differential expression of IGF-binding protein-3 in normal and malignant colon and its influence on apoptosis. Endocrine-Related Cancer, 2005, 12, 891-901.	1.6	26
79	RNA biomarkers in colorectal cancer. Methods, 2013, 59, 116-125.	1.9	26
80	Surveillance, epidemiological, and virological detection of highly pathogenic H5N1 avian influenza viruses in duck and poultry from Bangladesh. Veterinary Microbiology, 2016, 193, 49-59.	0.8	25
81	CoV2-ID, a MIQE-compliant sub-20-min 5-plex RT-PCR assay targeting SARS-CoV-2 for the diagnosis of COVID-19. Scientific Reports, 2020, 10, 22214.	1.6	25
82	Coding sequence of ERF-1, the human homologue of Tis11b/cMG1, members of the Tis11 family of early response genes. Nucleic Acids Research, 1993, 21, 3580-3580.	6.5	23
83	Avian influenza: virology, diagnosis and surveillance. Future Microbiology, 2013, 8, 1209-1227.	1.0	22
84	Biomarkers for invasive aspergillosis: the challenges continue. Biomarkers in Medicine, 2014, 8, 429-451.	0.6	22
85	Differential Expression Patterns of the Insulin-Like Growth Factor 2 Gene in Human Colorectal Cancer. Tumor Biology, 2004, 25, 62-68.	0.8	21
86	qPCR, dPCR, NGS â€“ A journey. Biomolecular Detection and Quantification, 2015, 3, A1-A5.	7.0	21
87	COVID-19 and Diagnostic Testing for SARS-CoV-2 by RT-qPCRâ€”Facts and Fallacies. International Journal of Molecular Sciences, 2021, 22, 2459.	1.8	21
88	Synthesis of Preparative Amounts of Biologically Active Interleukin-6 Using a Continuous-Flow Cell-Free Translation System. Analytical Biochemistry, 1993, 214, 289-294.	1.1	20
89	Cyclo-oxygenase-2 (COX-2) mRNA expression and hormone receptor status in breast cancer. European Journal of Surgical Oncology, 2006, 32, 707-709.	0.5	20
90	Improving the analysis of quantitative PCR data in veterinary research. Veterinary Journal, 2012, 191, 279-281.	0.6	19

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91	The continuing problem of poor transparency of reporting and use of inappropriate methods for RT-qPCR. Biomolecular Detection and Quantification, 2017, 12, 7-9.	7.0	18
92	Improving the standardization of mRNA measurement by RT-qPCR. Biomolecular Detection and Quantification, 2018, 15, 13-17.	7.0	18
93	Significant Decline in Galactomannan Signal during Storage of Clinical Serum Samples. International Journal of Molecular Sciences, 2013, 14, 12970-12977.	1.8	17
94	Five Years MIQE Guidelines: The Case of the Arabian Countries. PLoS ONE, 2014, 9, e88266.	1.1	17
95	Age and diet act through distinct isoforms of the class II transactivator gene in mouse intestinal epithelium. Gastroenterology, 2004, 127, 203-212.	0.6	16
96	Influence of trypsinization and alternative procedures for cell preparation before RNA extraction on RNA integrity. Analytical Biochemistry, 2014, 463, 38-44.	1.1	16
97	Improving the reliability of peer-reviewed publications: We are all in it together. Biomolecular Detection and Quantification, 2016, 7, A1-A5.	7.0	16
98	Transcription of the inositol polyphosphate 1-phosphatase gene (INPP1) is upregulated in human colorectal cancer. , 2000, 27, 322-329.		15
99	Molecular medicine, gene-expression profiling and molecular diagnostics: putting the cart before the horse. Biomarkers in Medicine, 2008, 2, 201-207.	0.6	15
100	Recent progress in developing proximity ligation assays for pathogen detection. Expert Review of Molecular Diagnostics, 2015, 15, 861-867.	1.5	15
101	Phosphodiesterase Type 5 Inhibitors and Selective Estrogen Receptor Modulators Can Prevent But Not Reverse Myofibroblast Transformation in Peyronie's Disease. Journal of Sexual Medicine, 2020, 17, 1848-1864.	0.3	15
102	The Human Immediate Early GeneBRF1Maps to Chromosome 14q22â€“q24. Genomics, 1995, 30, 89-90.	1.3	14
103	Colorectal cancers with mononucleotide microsatellite instability can be identified using microfabricated chip technology. Analytical Biochemistry, 2003, 322, 130-133.	1.1	14
104	Homogeneous and digital proximity ligation assays for the detection of Clostridium difficile toxins A and B. Biomolecular Detection and Quantification, 2016, 10, 2-8.	7.0	14
105	Digital PCR can augment the interpretation of RT-qPCR Cq values for SARS-CoV-2 diagnostics. Methods, 2022, 201, 5-14.	1.9	14
106	Molecular staging of colorectal cancer: new paradigm or waste of time?. Expert Opinion on Medical Diagnostics, 2007, 1, 31-45.	1.6	13
107	Transparency of Reporting in Molecular Diagnostics. International Journal of Molecular Sciences, 2013, 14, 15878-15884.	1.8	13
108	An Enzyme-Linked Immunosorbent Assay for the Detection of Agents Which Interfere with the DNA Binding Activities of Transcription Factorsâ€”Exemplified by NF-IL6. Analytical Biochemistry, 1998, 265, 28-34.	1.1	12

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109	Identification of Differentially Expressed Genes Associated with Colorectal Cancer Liver Metastasis. European Surgical Research, 2003, 35, 327-336.	0.6	12
110	Microarray profiling of colorectal cancer in Bangladeshi patients. Colorectal Disease, 2005, 7, 571-575.	0.7	12
111	RDML-Ninja and RDMLdb for standardized exchange of qPCR data. BMC Bioinformatics, 2015, 16, 197.	1.2	12
112	Evaluation of the new Asp<scp>ID</scp> polymerase chain reaction assay for detection of Aspergillus species: A pilot study. Mycoses, 2018, 61, 355-359.	1.8	12
113	Immunogenic Hsp-70 Is Overexpressed in Colorectal Cancers With High-Degree Microsatellite Instability. Diseases of the Colon and Rectum, 2005, 48, 2322-2328.	0.7	11
114	Metasinâ€"An Intra-Operative RT-qPCR Assay to Detect Metastatic Breast Cancer in Sentinel Lymph Nodes. International Journal of Molecular Sciences, 2013, 14, 12931-12952.	1.8	11
115	Lamina propria macrophage phenotypes in relation to Escherichia coli in Crohnâ€™s disease. BMC Gastroenterology, 2015, 15, 75.	0.8	11
116	The Product of the Primary Response Gene BRF1 Inhibits the Interaction between 14-3-3 Proteins and cRaf-1 in the Yeast Trihybrid System. DNA and Cell Biology, 1999, 18, 653-661.	0.9	10
117	Reproducibility of biomedical research â€“ The importance of editorial vigilance. Biomolecular Detection and Quantification, 2017, 11, 1-3.	7.0	10
118	Nuclear transcription factors: potential targets for new modes of intervention in skin disease. British Journal of Dermatology, 1994, 131, 591-597.	1.4	9
119	Nucleic acid quantification and disease outcome prediction in colorectal cancer. Personalized Medicine, 2006, 3, 207-216.	0.8	9
120	A multicentre validation of Metasin: a molecular assay for the intraoperative assessment of sentinel lymph nodes from breast cancer patients. Histopathology, 2016, 68, 875-887.	1.6	7
121	International Journal of Molecular Science Best Paper Award 2014. International Journal of Molecular Sciences, 2014, 15, 1683-1685.	1.8	6
122	In Silico Tools for qPCR Assay Design and Data Analysis. Methods in Molecular Biology, 2011, 760, 283-306.	0.4	5
123	RT-qPCR Diagnostics: The â€œDrostenâ€•SARS-CoV-2 Assay Paradigm. International Journal of Molecular Sciences, 2021, 22, 8702.	1.8	5
124	Altered monocyte cyclo-oxygenase response in non-obese diabetic mice. Clinical and Experimental Immunology, 2009, 155, 304-310.	1.1	4
125	Protein shuttles, IGF-I and colorectal cancer. Trends in Molecular Medicine, 2001, 7, 9.	3.5	3
126	5. Amplification and detection methods. , 2014, , 63-84.		3

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127	Insufficient Demonstration of Long-Term Stability of Aspergillus Galactomannan. Journal of Clinical Microbiology, 2014, 52, 4118-4118.	1.8	3
128	Analysis of mRNA Expression by Real-time PCR. , 2019, , .		3
129	â€˜Lymphochipsâ€™ and cancer profiles. Trends in Molecular Medicine, 2000, 6, 218.	2.6	1
130	Extended silencing of the insulin-like growth factor-I receptor gene in MCF-7 cells by serial transfection with siRNA. Analytical Biochemistry, 2006, 357, 305-307.	1.1	1
131	Polymerase chain reaction and respiratory viruses. , 2009, , 189-211.		1
132	How to make Mathematics Biology's next and better microscope. Biomolecular Detection and Quantification, 2014, 1, A1-A3.	7.0	1
133	Science in the UK â^' whereto now?. Biomolecular Detection and Quantification, 2016, 9, A1-A4.	7.0	1
134	Real Time Reverse Transcription PCR. , 2004, , 1131-1135.		1
135	5 Amplification and detection methods. , 2012, , 53-68.		1
136	RT-qPCR Detection of SARS-CoV-2: No Need for a Dedicated Reverse Transcription Step. International Journal of Molecular Sciences, 2022, 23, 1303.	1.8	1
137	Taking control of the polymerase chain reaction. , 0, , 129-152.		0
138	Use of the yeast two-hybrid system to detect proteins which bind to the butyrate-regulated signal transduction molecules BRF1 and BRF2 expressed in epidermal keratinocytes. Journal of Dermatological Science, 1998, 16, S151.	1.0	0
139	A PCR guide for clinical scientists. Trends in Molecular Medicine, 1999, 5, 10.	2.6	0
140	Loss of imprinting marks predisposition to colorectal cancer?. Trends in Molecular Medicine, 1999, 5, 54.	2.6	0
141	DNA methyltransferase and cancer: the juryâ€™s still out. Trends in Molecular Medicine, 1999, 5, 465.	2.6	0
142	Nurture leads the race in the control of cancer. Trends in Molecular Medicine, 2000, 6, 380.	2.6	0
143	Diet regulates class II MHC expression in mouse intestinal epithelium through the regulatory molecule, CIITA. Gastroenterology, 2000, 118, A77.	0.6	0
144	Methods for Analysing mRNA Expression. , 0, , 163-407.		0

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145	The MMR vaccine, measles virus, and autism â€“ A cautionary tale. , 0, , 229-242.		0
146	Miniaturized polymerase chain reaction for quantitative clinical diagnostics. , 0, , 88-109.		0
147	The road from qualitative to quantitative assay: What is next?. , 0, , 110-128.		0
148	MIQE. , 2013, , 221-230.		0