

# Valerie Taly

## List of Publications by Year in descending order

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98  
papers

8,030  
citations

61984

43  
h-index

49909

87  
g-index

108  
all docs

108  
docs citations

108  
times ranked

10269  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prognostic value of circulating tumour DNA in metastatic pancreatic cancer patients: post-hoc analyses of two clinical trials. <i>British Journal of Cancer</i> , 2022, 126, 440-448.	6.4	15
2	Highly Specific Droplet-Digital PCR Detection of Universally Methylated Circulating Tumor DNA in Endometrial Carcinoma. <i>Clinical Chemistry</i> , 2022, 68, 782-793.	3.2	7
3	Circulating tumor DNA: a help to guide therapeutic strategy in patients with borderline and locally advanced pancreatic adenocarcinoma?. <i>Digestive and Liver Disease</i> , 2022, 54, 1428-1436.	0.9	4
4	Frontiers in single cell analysis: multimodal technologies and their clinical perspectives. <i>Lab on A Chip</i> , 2022, 22, 2403-2422.	6.0	13
5	Discovery and validation of a transcriptional signature identifying homologous recombination-deficient breast, endometrial and ovarian cancers. <i>British Journal of Cancer</i> , 2022, 127, 1123-1132.	6.4	3
6	Highly Sensitive Quantification of Plasma Severe Acute Respiratory Syndrome Coronavirus 2 RNA Sheds Light on its Potential Clinical Value. <i>Clinical Infectious Diseases</i> , 2021, 73, e2890-e2897.	5.8	92
7	Advances in multiplexed techniques for the detection and quantification of microRNAs. <i>Chemical Society Reviews</i> , 2021, 50, 4141-4161.	38.1	158
8	Usefulness of Plasma SARS-CoV-2 RNA Quantification by Droplet-based Digital PCR to Monitor Treatment Against COVID-19 in a B-cell Lymphoma Patient. <i>Stem Cell Reviews and Reports</i> , 2021, 17, 296-299.	3.8	16
9	Detection of Brain Somatic Mutations in <scp>Cerebrospinal Fluid</scp> from Refractory Epilepsy Patients. <i>Annals of Neurology</i> , 2021, 89, 1248-1252.	5.3	37
10	Characterization of Plasma Cell-Free DNA Integrity Using Droplet-Based Digital PCR: Toward the Development of Circulating Tumor DNA-Dedicated Assays. <i>Frontiers in Oncology</i> , 2021, 11, 639675.	2.8	3
11	Prognostic Value and Relation with Adjuvant Treatment Duration of ctDNA in Stage III Colon Cancer: a<i>Post Hoc</i>Analysis of the PRODIGE-GERCOR IDEA-France Trial. <i>Clinical Cancer Research</i> , 2021, 27, 5638-5646.	7.0	42
12	Technological Advances in Tumor-On-Chip Technology: From Bench to Bedside. <i>Cancers</i> , 2021, 13, 4192.	3.7	12
13	Role of Circulating Tumor DNA in Gastrointestinal Cancers: Current Knowledge and Perspectives. <i>Cancers</i> , 2021, 13, 4743.	3.7	8
14	Circulating tumor DNA is a prognostic marker of tumor recurrence in stage II and III colorectal cancer: multicentric, prospective cohort study (ALGECOLS). <i>European Journal of Cancer</i> , 2021, 159, 24-33.	2.8	24
15	Plasma clearance of <i>RAS</i> mutation under therapeutic pressure is a rare event in metastatic colorectal cancer. <i>International Journal of Cancer</i> , 2020, 147, 1185-1189.	5.1	26
16	Streamlined digital bioassays with a 3D printed sample changer. <i>Analyst</i> , The, 2020, 145, 572-581.	3.5	13
17	HPV circulating tumoral DNA quantification by droplet-based digital PCR: A promising predictive and prognostic biomarker for HPV-associated oropharyngeal cancers. <i>International Journal of Cancer</i> , 2020, 147, 1222-1227.	5.1	65
18	Emerging isothermal amplification technologies for microRNA biosensing: Applications to liquid biopsies. <i>Molecular Aspects of Medicine</i> , 2020, 72, 100832.	6.4	48

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19	The Digital MIQE Guidelines Update: Minimum Information for Publication of Quantitative Digital PCR Experiments for 2020. <i>Clinical Chemistry</i> , 2020, 66, 1012-1029.	3.2	247
20	Decision for adjuvant treatment in stage II colon cancer based on circulating tumor DNA: The CIRCULATE-PRODIGE 70 trial. <i>Digestive and Liver Disease</i> , 2020, 52, 730-733.	0.9	18
21	Mechanical Characterization of Cells and Microspheres Sorted by Acoustophoresis with In-Line Resistive Pulse Sensing. <i>Physical Review Applied</i> , 2020, 13, .	3.8	11
22	Isothermal digital detection of microRNAs using background-free molecular circuit. <i>Science Advances</i> , 2020, 6, eaay5952.	10.3	71
23	Plasma circulating tumor DNA in pancreatic adenocarcinoma for screening, diagnosis, prognosis, treatment and follow-up: A systematic review. <i>Cancer Treatment Reviews</i> , 2020, 87, 102028.	7.7	9
24	BRAF Mutation Status in Circulating Tumor DNA from Patients with Metastatic Colorectal Cancer: Extended Mutation Analysis from the AGEO RASANC Study. <i>Cancers</i> , 2019, 11, 998.	3.7	22
25	Vemurafenib for Refractory Multisystem Langerhans Cell Histiocytosis in Children: An International Observational Study. <i>Journal of Clinical Oncology</i> , 2019, 37, 2857-2865.	1.6	132
26	Microfluidic extraction and digital quantification of circulating cell-free DNA from serum. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 533-539.	7.8	39
27	Tunable and Reversible Gelatin-Based Bonding for Microfluidic Cell Culture. <i>Advanced Engineering Materials</i> , 2019, 21, 1900145.	3.5	12
28	Liquid Biopsy: General Concepts. <i>Acta Cytologica</i> , 2019, 63, 449-455.	1.3	186
29	Gelatin-Coated Microfluidic Channels for 3D Microtissue Formation: On-Chip Production and Characterization. <i>Micromachines</i> , 2019, 10, 265.	2.9	7
30	HPV-circulating tumoural DNA by droplet-based digital polymerase chain reaction, a new molecular tool for early detection of HPV metastatic anal cancer? A case report. <i>European Journal of Cancer</i> , 2019, 112, 34-37.	2.8	4
31	Coins in microfluidics: From mere scale objects to font of inspiration for microchannel circuits. <i>Biomicrofluidics</i> , 2019, 13, 024106.	2.4	1
32	Highly sensitive methods are required to detect mutations in histiocytoses. <i>Haematologica</i> , 2019, 104, e97-e99.	3.5	27
33	Methylated circulating tumor DNA (Met-DNA) as an independent prognostic factor in metastatic pancreatic adenocarcinoma (mPAC) patients.. <i>Journal of Clinical Oncology</i> , 2019, 37, 4136-4136.	1.6	3
34	Mutation and Methylation Analysis of Circulating Tumor DNA Can Be Used for Follow-up of Metastatic Colorectal Cancer Patients. <i>Clinical Colorectal Cancer</i> , 2018, 17, e369-e379.	2.3	39
35	BIABooster: Online DNA Concentration and Size Profiling with a Limit of Detection of 10 fg/µL and Application to High-Sensitivity Characterization of Circulating Cell-Free DNA. <i>Analytical Chemistry</i> , 2018, 90, 3766-3774.	6.5	33
36	Role of circulating tumor DNA in the management of patients with colorectal cancer. <i>Clinics and Research in Hepatology and Gastroenterology</i> , 2018, 42, 396-402.	1.5	14

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37	Phenotypes and survival in Erdheim-Chester disease: Results from a 165-patient cohort. American Journal of Hematology, 2018, 93, E114-E117.	4.1	94
38	RAS mutation analysis in circulating tumor DNA from patients with metastatic colorectal cancer: the AGEO RASANC prospective multicenter study. Annals of Oncology, 2018, 29, 1211-1219.	1.2	136
39	Droplet-based digital PCR and next generation sequencing for monitoring circulating tumor DNA: a cancer diagnostic perspective. Expert Review of Molecular Diagnostics, 2018, 18, 7-17.	3.1	165
40	High-throughput multiplexed fluorescence-activated droplet sorting. Microsystems and Nanoengineering, 2018, 4, 33.	7.0	48
41	Incidence and risk factors for clinical neurodegenerative Langerhans cell histiocytosis: a longitudinal cohort study. British Journal of Haematology, 2018, 183, 608-617.	2.5	54
42	<i>BRAF</i> V600E mutation detected in a case of Rosai-Dorfman disease. Haematologica, 2018, 103, e377-e379.	3.5	45
43	Beyond the on/off chip trade-off: A reversibly sealed microfluidic platform for 3D tumor microtissue analysis. Sensors and Actuators B: Chemical, 2018, 274, 393-401.	7.8	22
44	Assessment of Digital PCR as a Primary Reference Measurement Procedure to Support Advances in Precision Medicine. Clinical Chemistry, 2018, 64, 1296-1307.	3.2	50
45	Droplet-Based Microfluidics Digital PCR for the Detection of KRAS Mutations. Methods in Molecular Biology, 2017, 1547, 143-164.	0.9	8
46	Multiplex Detection of KRAS Mutations Using Passive Droplet Fusion. Methods in Molecular Biology, 2017, 1547, 133-142.	0.9	1
47	Droplet-Based Digital PCR. Advances in Clinical Chemistry, 2017, 79, 43-91.	3.7	87
48	Circulating cell-free <i>BRAF</i> <sup>V600E</sup> as a biomarker in children with Langerhans cell histiocytosis. British Journal of Haematology, 2017, 178, 457-467.	2.5	57
49	Microfluidics as a Strategic Player to Decipher Single-Cell Omics?. Trends in Biotechnology, 2017, 35, 713-727.	9.3	27
50	High throughput single cell counting in droplet-based microfluidics. Scientific Reports, 2017, 7, 1366.	3.3	45
51	Circulating Tumor DNA Measurement by Picoliter Droplet-Based Digital PCR and Vemurafenib Plasma Concentrations in Patients with Advanced BRAF-Mutated Melanoma. Targeted Oncology, 2017, 12, 365-371.	3.6	15
52	Functional evidence for derivation of systemic histiocytic neoplasms from hematopoietic stem/progenitor cells. Blood, 2017, 130, 176-180.	1.4	98
53	Plasma Circulating Tumor DNA in Pancreatic Cancer Patients Is a Prognostic Marker. Clinical Cancer Research, 2017, 23, 116-123.	7.0	205
54	Massively parallel and multiparameter titration of biochemical assays with droplet microfluidics. Nature Protocols, 2017, 12, 1912-1932.	12.0	39

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55	Early Evaluation of Circulating Tumor DNA as Marker of Therapeutic Efficacy in Metastatic Colorectal Cancer Patients (PLACOL Study). <i>Clinical Cancer Research</i> , 2017, 23, 5416-5425.	7.0	189
56	Direct characterization of circulating DNA in blood plasma using $\hat{1}/4$ LAS technology. , 2017, , .		0
57	Multiplex Detection of Rare Mutations by Picoliter Droplet Based Digital PCR: Sensitivity and Specificity Considerations. <i>PLoS ONE</i> , 2016, 11, e0159094.	2.5	78
58	Base-Position Error Rate Analysis of Next-Generation Sequencing Applied to Circulating Tumor DNA in Non-Small Cell Lung Cancer: A Prospective Study. <i>PLoS Medicine</i> , 2016, 13, e1002199.	8.4	76
59	<i>BRAF</i> Mutation Correlates With High-Risk Langerhans Cell Histiocytosis and Increased Resistance to First-Line Therapy. <i>Journal of Clinical Oncology</i> , 2016, 34, 3023-3030.	1.6	233
60	Analysis of Base-Position Error Rate of Next-Generation Sequencing to Detect Tumor Mutations in Circulating DNA. <i>Clinical Chemistry</i> , 2016, 62, 1492-1503.	3.2	68
61	Digital PCR, a technique for the future. <i>Biomolecular Detection and Quantification</i> , 2016, 10, 1.	7.0	4
62	Germline and somatic mutations in the <i>MTOR</i> gene in focal cortical dysplasia and epilepsy. <i>Neurology: Genetics</i> , 2016, 2, e118.	1.9	125
63	High-resolution mapping of bifurcations in nonlinear biochemical circuits. <i>Nature Chemistry</i> , 2016, 8, 760-767.	13.6	94
64	A Study of Hypermethylated Circulating Tumor DNA as a Universal Colorectal Cancer Biomarker. <i>Clinical Chemistry</i> , 2016, 62, 1129-1139.	3.2	111
65	Why and how immunohistochemistry should now be used to screen for the <i>BRAFV600E</i> status in metastatic melanoma? The experience of a single institution ( <i>LCEP</i> , Nice, France). <i>Journal of the European Academy of Dermatology and Venereology</i> , 2015, 29, 2436-2443.	2.4	16
66	Assessment of DNA Integrity, Applications for Cancer Research. <i>Advances in Clinical Chemistry</i> , 2015, 70, 197-246.	3.7	45
67	Variations of <i>BRAF</i> mutant allele percentage in melanomas. <i>BMC Cancer</i> , 2015, 15, 497.	2.6	36
68	Parallelized ultra-high throughput microfluidic emulsifier for multiplex kinetic assays. <i>Biomicrofluidics</i> , 2015, 9, 034101.	2.4	46
69	Clinical Relevance of <i>KRAS</i> -Mutated Subclones Detected with Picodroplet Digital PCR in Advanced Colorectal Cancer Treated with Anti-EGFR Therapy. <i>Clinical Cancer Research</i> , 2015, 21, 1087-1097.	7.0	137
70	Abstract 5235: Circulating tumor DNA as a prognostic marker in colorectal cancer: Preliminary results of a prospective trial. <i>Cancer Research</i> , 2015, 75, 5235-5235.	0.9	3
71	CotA laccase: high-throughput manipulation and analysis of recombinant enzyme libraries expressed in <i>E. coli</i> using droplet-based microfluidics. <i>Analyst</i> , The, 2014, 139, 3314-3323.	3.5	64
72	The microfluidic puzzle: chip-oriented rapid prototyping. <i>Lab on A Chip</i> , 2014, 14, 1669-1672.	6.0	14

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73	Recurrent RAS and PIK3CA mutations in Erdheim-Chester disease. <i>Blood</i> , 2014, 124, 3016-3019.	1.4	197
74	Association of both Langerhans cell histiocytosis and Erdheim-Chester disease linked to the BRAFV600E mutation. <i>Blood</i> , 2014, 124, 1119-1126.	1.4	208
75	High-throughput formation and control of monodisperse liquid crystals droplets driven by an alternating current electric field in a microfluidic device. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	10
76	Multiplex Picodroplet Digital PCR to Detect KRAS Mutations in Circulating DNA from the Plasma of Colorectal Cancer Patients. <i>Clinical Chemistry</i> , 2013, 59, 1722-1731.	3.2	429
77	Membraneless glucose/O <sub>2</sub> microfluidic biofuel cells using covalently bound enzymes. <i>Chemical Communications</i> , 2013, 49, 1094.	4.1	58
78	Multiplex Picoliter-Droplet Digital PCR for Quantitative Assessment of DNA Integrity in Clinical Samples. <i>Clinical Chemistry</i> , 2013, 59, 815-823.	3.2	98
79	Real-time detection and analysis of Whispering gallery mode resonance in high-throughput flowing monodisperse microdroplets. <i>Optical Materials</i> , 2013, 36, 64-68.	3.6	4
80	Microfluidic Approaches for the Study of Emulsions: Transport of Solutes. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1530, 1.	0.1	1
81	Dynamics of molecular transport by surfactants in emulsions. <i>Soft Matter</i> , 2012, 8, 10618.	2.7	133
82	Detecting biomarkers with microdroplet technology. <i>Trends in Molecular Medicine</i> , 2012, 18, 405-416.	6.7	93
83	From Toxins Targeting Ligand Gated Ion Channels to Therapeutic Molecules. <i>Toxins</i> , 2011, 3, 260-293.	3.4	27
84	Multiplex digital PCR: breaking the one target per color barrier of quantitative PCR. <i>Lab on A Chip</i> , 2011, 11, 2167.	6.0	267
85	Quantitative and sensitive detection of rare mutations using droplet-based microfluidics. <i>Lab on A Chip</i> , 2011, 11, 2156.	6.0	461
86	The Thermophilic CotA Laccase from <i>Bacillus subtilis</i> : Bioelectrocatalytic Evaluation of O <sub>2</sub> Reduction in the Direct and Mediated Electron Transfer Regime. <i>Electroanalysis</i> , 2011, 23, 1781-1789.	2.9	26
87	Immobilization of CotA, an extremophilic laccase from <i>Bacillus subtilis</i> , on glassy carbon electrodes for biofuel cell applications. <i>Electrochemistry Communications</i> , 2011, 13, 24-27.	4.7	39
88	Reply to D. Santini et al. <i>Journal of Clinical Oncology</i> , 2011, 29, e208-e209.	1.6	4
89	Droplet-Based Microfluidic Systems for High-Throughput Single DNA Molecule Isothermal Amplification and Analysis. <i>Analytical Chemistry</i> , 2009, 81, 4813-4821.	6.5	235
90	Multi-step microfluidic droplet processing: kinetic analysis of an in vitro translated enzyme. <i>Lab on A Chip</i> , 2009, 9, 2902.	6.0	182

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91	Fluorescence-activated droplet sorting (FADS): efficient microfluidic cell sorting based on enzymatic activity. Lab on A Chip, 2009, 9, 1850.	6.0	784
92	A combinatorial approach to substrate discrimination in the P450 CYP1A subfamily. Biochimica Et Biophysica Acta - General Subjects, 2007, 1770, 446-457.	2.4	24
93	Droplets as Microreactors for High-Throughput Biology. ChemBioChem, 2007, 8, 263-272.	2.6	134
94	Miniaturizing chemistry and biology in microdroplets. Chemical Communications, 2007, , 1773.	4.1	165
95	Directed evolution by in vitro compartmentalization. Nature Methods, 2006, 3, 561-570.	19.0	196
96	High-Throughput Screening of Enzyme Libraries: In Vitro Evolution of a $\beta$ -Galactosidase by Fluorescence-Activated Sorting of Double Emulsions. Chemistry and Biology, 2005, 12, 1291-1300.	6.0	198
97	Microarray-Based Method for Combinatorial Library Sequence Mapping and Characterization. BioTechniques, 2003, 34, 1272-1279.	1.8	3
98	Exploration of Natural and Artificial Sequence Spaces: Towards a Functional Remodeling of Membrane-bound Cytochrome P450. Biocatalysis and Biotransformation, 2003, 21, 55-66.	2.0	3