# Valerie Taly

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 92 papers | 5,823 citations | 38 h-index | 75 g-index |
| 108 ext. papers | 7,025 ext. citations | 6.7 avg, IF | 5.57 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 92 | Highly Specific Droplet-Digital PCR Detection of Universally Methylated Circulating Tumor DNA in Endometrial Carcinoma.. *Clinical Chemistry*, **2022**, | 5.5 | 1 |
| 91 | Circulating tumor DNA is a prognostic marker of tumor recurrence in stage II and III colorectal cancer: multicentric, prospective cohort study (ALGECOLS). *European Journal of Cancer*, **2021**, 159, 24-33 | 7.5 | 2 |
| 90 | Highly Sensitive Quantification of Plasma Severe Acute Respiratory Syndrome Coronavirus 2 RNA Sheds Light on its Potential Clinical Value. *Clinical Infectious Diseases*, **2021**, 73, e2890-e2897 | 11.6 | 63 |
| 89 | Detection of Brain Somatic Mutations in Cerebrospinal Fluid from Refractory Epilepsy Patients. *Annals of Neurology*, **2021**, 89, 1248-1252 | 9.4 | 11 |
| 88 | Characterization of Plasma Cell-Free DNA Integrity Using Droplet-Based Digital PCR: Toward the Development of Circulating Tumor DNA-Dedicated Assays. *Frontiers in Oncology*, **2021**, 11, 639675 | 5.3 | 1 |
| 87 | Prognostic Value and Relation with Adjuvant Treatment Duration of ctDNA in Stage III Colon Cancer: a Analysis of the PRODIGE-GERCOR IDEA-France Trial. *Clinical Cancer Research*, **2021**, 27, 5638-5646 | 12.9 | 11 |
| 86 | Advances in multiplexed techniques for the detection and quantification of microRNAs. *Chemical Society Reviews*, **2021**, 50, 4141-4161 | 58.5 | 33 |
| 85 | 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. *Stem Cell Reviews and Reports*, **2021**, 17, 296-299 | 7.3 | 7 |
| 84 | Technological Advances in Tumor-On-Chip Technology: From Bench to Bedside. *Cancers*, **2021**, 13, | 6.6 | 4 |
| 83 | Role of Circulating Tumor DNA in Gastrointestinal Cancers: Current Knowledge and Perspectives. *Cancers*, **2021**, 13, | 6.6 | 3 |
| 82 | "Decision for adjuvant treatment in stage II colon cancer based on circulating tumor DNA:The CIRCULATE-PRODIGE 70 trial". *Digestive and Liver Disease*, **2020**, 52, 730-733 | 3.3 | 6 |
| 81 | Mechanical Characterization of Cells and Microspheres Sorted by Acoustophoresis with In-Line Resistive Pulse Sensing. *Physical Review Applied*, **2020**, 13, | 4.3 | 3 |
| 80 | Isothermal digital detection of microRNAs using background-free molecular circuit. *Science Advances*, **2020**, 6, eaay5952 | 14.3 | 27 |
| 79 | Plasma circulating tumor DNA in pancreatic adenocarcinoma for screening, diagnosis, prognosis, treatment and follow-up: A systematic review. *Cancer Treatment Reviews*, **2020**, 87, 102028 | 14.4 | 5 |
| 78 | Plasma clearance of RAS mutation under therapeutic pressure is a rare event in metastatic colorectal cancer. *International Journal of Cancer*, **2020**, 147, 1185-1189 | 7.5 | 14 |
| 77 | Streamlined digital bioassays with a 3D printed sample changer. *Analyst, The*, **2020**, 145, 572-581 | 5 | 5 |
| 76 | HPV circulating tumoral DNA quantification by droplet-based digital PCR: A promising predictive and prognostic biomarker for HPV-associated oropharyngeal cancers. *International Journal of Cancer*, **2020**, 147, 1222-1227 | 7.5 | 26 |

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| 75 | Emerging isothermal amplification technologies for microRNA biosensing: Applications to liquid biopsies. *Molecular Aspects of Medicine*, **2020**, 72, 100832 | 16.7 | 15 |
| 74 | The Digital MIQE Guidelines Update: Minimum Information for Publication of Quantitative Digital PCR Experiments for 2020. *Clinical Chemistry*, **2020**, 66, 1012-1029 | 5.5 | 85 |
| 73 | Vemurafenib for Refractory Multisystem Langerhans Cell Histiocytosis in Children: An International Observational Study. *Journal of Clinical Oncology*, **2019**, 37, 2857-2865 | 2.2 | 68 |
| 72 | Microfluidic extraction and digital quantification of circulating cell-free DNA from serum. *Sensors and Actuators B: Chemical*, **2019**, 286, 533-539 | 8.5 | 24 |
| 71 | Tunable and Reversible Gelatin-Based Bonding for Microfluidic Cell Culture. *Advanced Engineering Materials*, **2019**, 21, 1900145 | 3.5 | 9 |
| 70 | Liquid Biopsy: General Concepts. *Acta Cytologica*, **2019**, 63, 449-455 | 3 | 89 |
| 69 | Gelatin-Coated Microfluidic Channels for 3D Microtissue Formation: On-Chip Production and Characterization. *Micromachines*, **2019**, 10, | 3.3 | 4 |
| 68 | 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. *European Journal of Cancer*, **2019**, 112, 34-37 | 7.5 | 2 |
| 67 | Coins in microfluidics: From mere scale objects to font of inspiration for microchannel circuits. *Biomicrofluidics*, **2019**, 13, 024106 | 3.2 | 1 |
| 66 | Mutation Status in Circulating Tumor DNA from Patients with Metastatic Colorectal Cancer: Extended Mutation Analysis from the AGEO RASANC Study. *Cancers*, **2019**, 11, | 6.6 | 11 |
| 65 | Methylated circulating tumor DNA (Met-DNA) as an independent prognostic factor in metastatic pancreatic adenocarcinoma (mPAC) patients.. *Journal of Clinical Oncology*, **2019**, 37, 4136-4136 | 2.2 | 2 |
| 64 | Highly sensitive methods are required to detect mutations in histiocytoses. *Haematologica*, **2019**, 104, e97-e99 | 6.6 | 13 |
| 63 | Mutation and Methylation Analysis of Circulating Tumor DNA Can Be Used for Follow-up of Metastatic Colorectal Cancer Patients. *Clinical Colorectal Cancer*, **2018**, 17, e369-e379 | 3.8 | 30 |
| 62 | BIABooster: Online DNA Concentration and Size Profiling with a Limit of Detection of 10 fg/□ and Application to High-Sensitivity Characterization of Circulating Cell-Free DNA. *Analytical Chemistry*, **2018**, 90, 3766-3774 | 7.8 | 25 |
| 61 | Role of circulating tumor DNA in the management of patients with colorectal cancer. *Clinics and Research in Hepatology and Gastroenterology*, **2018**, 42, 396-402 | 2.4 | 11 |
| 60 | Phenotypes and survival in Erdheim-Chester disease: Results from a 165-patient cohort. *American Journal of Hematology*, **2018**, 93, E114-E117 | 7.1 | 53 |
| 59 | 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 | 10.3 | 84 |
| 58 | 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 | 8.5 | 14 |

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| 57 | Assessment of Digital PCR as a Primary Reference Measurement Procedure to Support Advances in Precision Medicine. *Clinical Chemistry*, **2018**, 64, 1296-1307 | 5.5 | 28 |
| 56 | 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 | 3.8 | 102 |
| 55 | High-throughput multiplexed fluorescence-activated droplet sorting. *Microsystems and Nanoengineering*, **2018**, 4, 33 | 7.7 | 30 |
| 54 | Incidence and risk factors for clinical neurodegenerative Langerhans cell histiocytosis: a longitudinal cohort study. *British Journal of Haematology*, **2018**, 183, 608-617 | 4.5 | 28 |
| 53 | V600E mutation detected in a case of Rosai-Dorfman disease. *Haematologica*, **2018**, 103, e377-e379 | 6.6 | 28 |
| 52 | Droplet-Based Microfluidics Digital PCR for the Detection of KRAS Mutations. *Methods in Molecular Biology*, **2017**, 1547, 143-164 | 1.4 | 7 |
| 51 | Multiplex Detection of KRAS Mutations Using Passive Droplet Fusion. *Methods in Molecular Biology*, **2017**, 1547, 133-142 | 1.4 | 1 |
| 50 | Droplet-Based Digital PCR: Application in Cancer Research. *Advances in Clinical Chemistry*, **2017**, 79, 43-91 | 3.8 | 59 |
| 49 | Circulating cell-free BRAF as a biomarker in children with Langerhans cell histiocytosis. *British Journal of Haematology*, **2017**, 178, 457-467 | 4.5 | 40 |
| 48 | Microfluidics as a Strategic Player to Decipher Single-Cell Omics?. *Trends in Biotechnology*, **2017**, 35, 713-727 | 13.1 | 19 |
| 47 | High throughput single cell counting in droplet-based microfluidics. *Scientific Reports*, **2017**, 7, 1366 | 4.9 | 27 |
| 46 | 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 | 5 | 12 |
| 45 | Functional evidence for derivation of systemic histiocytic neoplasms from hematopoietic stem/progenitor cells. *Blood*, **2017**, 130, 176-180 | 2.2 | 60 |
| 44 | Plasma Circulating Tumor DNA in Pancreatic Cancer Patients Is a Prognostic Marker. *Clinical Cancer Research*, **2017**, 23, 116-123 | 12.9 | 155 |
| 43 | Massively parallel and multiparameter titration of biochemical assays with droplet microfluidics. *Nature Protocols*, **2017**, 12, 1912-1932 | 18.8 | 27 |
| 42 | Early Evaluation of Circulating Tumor DNA as Marker of Therapeutic Efficacy in Metastatic Colorectal Cancer Patients (PLACOL Study). *Clinical Cancer Research*, **2017**, 23, 5416-5425 | 12.9 | 129 |
| 41 | Germline and somatic mutations in the gene in focal cortical dysplasia and epilepsy. *Neurology: Genetics*, **2016**, 2, e118 | 3.8 | 76 |
| 40 | High-resolution mapping of bifurcations in nonlinear biochemical circuits. *Nature Chemistry*, **2016**, 8, 760-7 | 17.6 | 59 |

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| 39 | A Study of Hypermethylated Circulating Tumor DNA as a Universal Colorectal Cancer Biomarker. *Clinical Chemistry*, **2016**, 62, 1129-39 | 5.5 | 85 |
| 38 | Multiplex Detection of Rare Mutations by Picoliter Droplet Based Digital PCR: Sensitivity and Specificity Considerations. *PLoS ONE*, **2016**, 11, e0159094 | 3.7 | 64 |
| 37 | Base-Position Error Rate Analysis of Next-Generation Sequencing Applied to Circulating Tumor DNA in Non-Small Cell Lung Cancer: A Prospective Study. *PLoS Medicine*, **2016**, 13, e1002199 | 11.6 | 58 |
| 36 | BRAF Mutation Correlates With High-Risk Langerhans Cell Histiocytosis and Increased Resistance to First-Line Therapy. *Journal of Clinical Oncology*, **2016**, 34, 3023-30 | 2.2 | 158 |
| 35 | Analysis of Base-Position Error Rate of Next-Generation Sequencing to Detect Tumor Mutations in Circulating DNA. *Clinical Chemistry*, **2016**, 62, 1492-1503 | 5.5 | 54 |
| 34 | Assessment of DNA Integrity, Applications for Cancer Research. *Advances in Clinical Chemistry*, **2015**, 70, 197-246 | 5.8 | 30 |
| 33 | Variations of BRAF mutant allele percentage in melanomas. *BMC Cancer*, **2015**, 15, 497 | 4.8 | 27 |
| 32 | Parallelized ultra-high throughput microfluidic emulsifier for multiplex kinetic assays. *Biomicrofluidics*, **2015**, 9, 034101 | 3.2 | 42 |
| 31 | Clinical relevance of KRAS-mutated subclones detected with picodroplet digital PCR in advanced colorectal cancer treated with anti-EGFR therapy. *Clinical Cancer Research*, **2015**, 21, 1087-97 | 12.9 | 122 |
| 30 | Why and how immunohistochemistry should now be used to screen for the BRAFV600E status in metastatic melanoma? The experience of a single institution (LCEP, Nice, France). *Journal of the European Academy of Dermatology and Venereology*, **2015**, 29, 2436-43 | 4.6 | 12 |
| 29 | CotA laccase: high-throughput manipulation and analysis of recombinant enzyme libraries expressed in E. coli using droplet-based microfluidics. *Analyst, The*, **2014**, 139, 3314-23 | 5 | 56 |
| 28 | The microfluidic puzzle: chip-oriented rapid prototyping. *Lab on A Chip*, **2014**, 14, 1669-72 | 7.2 | 13 |
| 27 | Recurrent RAS and PIK3CA mutations in Erdheim-Chester disease. *Blood*, **2014**, 124, 3016-9 | 2.2 | 157 |
| 26 | Association of both Langerhans cell histiocytosis and Erdheim-Chester disease linked to the BRAFV600E mutation. *Blood*, **2014**, 124, 1119-26 | 2.2 | 163 |
| 25 | High-throughput formation and control of monodisperse liquid crystals droplets driven by an alternating current electric field in a microfluidic device. *Applied Physics Letters*, **2013**, 103, 033112 | 3.4 | 8 |
| 24 | Multiplex picodroplet digital PCR to detect KRAS mutations in circulating DNA from the plasma of colorectal cancer patients. *Clinical Chemistry*, **2013**, 59, 1722-31 | 5.5 | 377 |
| 23 | Membraneless glucose/O2 microfluidic biofuel cells using covalently bound enzymes. *Chemical Communications*, **2013**, 49, 1094-6 | 5.8 | 52 |
| 22 | Multiplex picoliter-droplet digital PCR for quantitative assessment of DNA integrity in clinical samples. *Clinical Chemistry*, **2013**, 59, 815-23 | 5.5 | 78 |

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| 21 | Real-time detection and analysis of Whispering gallery mode resonance in high-throughput flowing monodisperse microdroplets. *Optical Materials*, **2013**, 36, 64-68 | 3.3 | 3 |
| 20 | Microfluidic Approaches for the Study of Emulsions: Transport of Solutes. *Materials Research Society Symposia Proceedings*, **2013**, 1530, 1 | | 1 |
| 19 | Dynamics of molecular transport by surfactants in emulsions. *Soft Matter*, **2012**, 8, 10618 | 3.6 | 115 |
| 18 | Detecting biomarkers with microdroplet technology. *Trends in Molecular Medicine*, **2012**, 18, 405-16 | 11.5 | 83 |
| 17 | From toxins targeting ligand gated ion channels to therapeutic molecules. *Toxins*, **2011**, 3, 260-93 | 4.9 | 18 |
| 16 | Multiplex digital PCR: breaking the one target per color barrier of quantitative PCR. *Lab on A Chip*, **2011**, 11, 2167-74 | 7.2 | 223 |
| 15 | Quantitative and sensitive detection of rare mutations using droplet-based microfluidics. *Lab on A Chip*, **2011**, 11, 2156-66 | 7.2 | 389 |
| 14 | The Thermophilic CotA Laccase from Bacillus subtilis: Bioelectrocatalytic Evaluation of O2 Reduction in the Direct and Mediated Electron Transfer Regime. *Electroanalysis*, **2011**, 23, 1781-1789 | 3 | 23 |
| 13 | Immobilization of CotA, an extremophilic laccase from Bacillus subtilis, on glassy carbon electrodes for biofuel cell applications. *Electrochemistry Communications*, **2011**, 13, 24-27 | 5.1 | 34 |
| 12 | Reply to D. Santini et al. *Journal of Clinical Oncology*, **2011**, 29, e208-e209 | 2.2 | 4 |
| 11 | Droplet-based microfluidic systems for high-throughput single DNA molecule isothermal amplification and analysis. *Analytical Chemistry*, **2009**, 81, 4813-21 | 7.8 | 213 |
| 10 | Multi-step microfluidic droplet processing: kinetic analysis of an in vitro translated enzyme. *Lab on A Chip*, **2009**, 9, 2902-8 | 7.2 | 164 |
| 9 | Fluorescence-activated droplet sorting (FADS): efficient microfluidic cell sorting based on enzymatic activity. *Lab on A Chip*, **2009**, 9, 1850-8 | 7.2 | 648 |
| 8 | Droplets as microreactors for high-throughput biology. *ChemBioChem*, **2007**, 8, 263-72 | 3.8 | 122 |
| 7 | Miniaturizing chemistry and biology in microdroplets. *Chemical Communications*, **2007**, 1773-88 | 5.8 | 155 |
| 6 | A combinatorial approach to substrate discrimination in the P450 CYP1A subfamily. *Biochimica Et Biophysica Acta - General Subjects*, **2007**, 1770, 446-57 | 4 | 21 |
| 5 | Directed evolution by in vitro compartmentalization. *Nature Methods*, **2006**, 3, 561-70 | 21.6 | 183 |
| 4 | 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, 1291-300 | | 168 |

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|---|---|---|---|
| 3 | Microarray-based method for combinatorial library sequence mapping and characterization. *BioTechniques*, **2003**, 34, 1272-9 | 2.5 | 3 |
| 2 | Exploration of Natural and Artificial Sequence Spaces: Towards a Functional Remodeling of Membrane-bound Cytochrome P450 | | 3 |
| 1 | Isothermal digital detection of microRNA using background-free molecular circuit | | 1 |