

# Sanjay Tyagi

## List of Publications by Year in descending order

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44  
papers

11,863  
citations

236925

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docs citations

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times ranked

11056  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiplex PCR Assays for Identifying all Major Severe Acute Respiratory Syndrome Coronavirus 2 Variants. <i>Journal of Molecular Diagnostics</i> , 2022, 24, 309-319.	2.8	36
2	Multiplex SuperSelective PCR Assays for the Detection and Quantitation of Rare Somatic Mutations in Liquid Biopsies. <i>Journal of Molecular Diagnostics</i> , 2022, 24, 189-204.	2.8	1
3	SARS-CoV-2, SARS-CoV, and MERS-CoV encode circular RNAs of spliceosome-independent origin. <i>Journal of Medical Virology</i> , 2022, 94, 3203-3222.	5.0	17
4	Circular RNAs Represent a Novel Class of Human Cytomegalovirus Transcripts. <i>Microbiology Spectrum</i> , 2022, 10, .	3.0	8
5	Development of a novel human CD147 knock-in NSG mouse model to test SARS-CoV-2 viral infection. <i>Cell and Bioscience</i> , 2022, 12, .	4.8	7
6	Glutamine Is Required for M1-like Polarization of Macrophages in Response to Mycobacterium tuberculosis Infection. <i>MBio</i> , 2022, 13, .	4.1	17
7	Reduction in gene expression noise by targeted increase in accessibility at gene loci. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	27
8	Detection of Extracellular Vesicle RNA Using Molecular Beacons. <i>IScience</i> , 2020, 23, 100782.	4.1	48
9	Fluorescence In Situ Imaging of Dendritic RNAs at Single-Molecule Resolution. <i>Current Protocols in Neuroscience</i> , 2019, 89, e79.	2.6	10
10	Immunometabolism of Phagocytes During Mycobacterium tuberculosis Infection. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 105.	3.5	65
11	High-fidelity amplified FISH for the detection and allelic discrimination of single mRNA molecules. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13921-13926.	7.1	41
12	Color-coded molecular beacons for multiplex PCR screening assays. <i>PLoS ONE</i> , 2019, 14, e0213906.	2.5	9
13	Biphasic Dynamics of Macrophage Immunometabolism during Mycobacterium tuberculosis Infection. <i>MBio</i> , 2019, 10, .	4.1	101
14	Suppression of Wild-Type Amplification by Selectivity Enhancing Agents in PCR Assays that Utilize SuperSelective Primers for the Detection of Rare Somatic Mutations. <i>Journal of Molecular Diagnostics</i> , 2018, 20, 415-427.	2.8	11
15	Active Tuberculosis Is Characterized by Highly Differentiated Effector Memory Th1 Cells. <i>Frontiers in Immunology</i> , 2018, 9, 2127.	4.8	35
16	FISH-Flow, a protocol for the concurrent detection of mRNA and protein in single cells using fluorescence in situ hybridization and flow cytometry. <i>Nature Protocols</i> , 2017, 12, 1245-1260.	12.0	68
17	Flow Cytometric Characterization of Antigen-Specific T Cells Based on RNA and Its Advantages in Detecting Infections and Immunological Disorders. <i>Critical Reviews in Immunology</i> , 2016, 36, 359-378.	0.5	3
18	Multiplex Real-Time PCR Assays that Measure the Abundance of Extremely Rare Mutations Associated with Cancer. <i>PLoS ONE</i> , 2016, 11, e0156546.	2.5	29

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19	Tuning noise in gene expression. <i>Molecular Systems Biology</i> , 2015, 11, 805.	7.2	11
20	Profiling T Cell Activation Using Single-Molecule Fluorescence In Situ Hybridization and Flow Cytometry. <i>Journal of Immunology</i> , 2015, 194, 836-841.	0.8	27
21	Single-cell analysis shows that paracrine signaling by first responder cells shapes the interferon- $\beta$ response to viral infection. <i>Science Signaling</i> , 2015, 8, ra16.	3.6	73
22	Transcriptional Expression of Myelin Basic Protein in Oligodendrocytes Depends on Functional Syntaxin 4: a Potential Correlation with Autocrine Signaling. <i>Molecular and Cellular Biology</i> , 2015, 35, 675-687.	2.3	16
23	Single-Cell Cytokine Gene Expression in Peripheral Blood Cells Correlates with Latent Tuberculosis Status. <i>PLoS ONE</i> , 2015, 10, e0144904.	2.5	6
24	Fusion FISH Imaging: Single-Molecule Detection of Gene Fusion Transcripts In Situ. <i>PLoS ONE</i> , 2014, 9, e93488.	2.5	33
25	Spermatid Cyst Polarization in <i>Drosophila</i> Depends upon <i>apkc</i> and the CPEB Family Translational Regulator <i>orb2</i> . <i>PLoS Genetics</i> , 2014, 10, e1004380.	3.5	22
26	Barriers to transmission of transcriptional noise in a cAMP-dependent protein kinase pathway. <i>Molecular Systems Biology</i> , 2013, 9, 687.	7.2	27
27	Neuronal mRNAs travel singly into dendrites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 4645-4650.	7.1	131
28	Single-Molecule Imaging of Transcriptionally Coupled and Uncoupled Splicing. <i>Cell</i> , 2011, 147, 1054-1065.	28.9	203
29	<i>E. coli</i> , What a Noisy Bug. <i>Science</i> , 2010, 329, 518-519.	12.6	20
30	Imaging intracellular RNA distribution and dynamics in living cells. <i>Nature Methods</i> , 2009, 6, 331-338.	19.0	365
31	Imaging individual mRNA molecules using multiple singly labeled probes. <i>Nature Methods</i> , 2008, 5, 877-879.	19.0	1,770
32	Stochastic mRNA Synthesis in Mammalian Cells. <i>PLoS Biology</i> , 2006, 4, e309.	5.6	1,528
33	Mechanism of mRNA transport in the nucleus. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 17008-17013.	7.1	242
34	Imaging Native $\beta$ -Actin mRNA in Motile Fibroblasts. <i>Biophysical Journal</i> , 2004, 87, 4153-4162.	0.5	149
35	Taking a census of mRNA populations with microbeads. <i>Nature Biotechnology</i> , 2000, 18, 597-598.	17.5	20
36	Wavelength-shifting molecular beacons. <i>Nature Biotechnology</i> , 2000, 18, 1191-1196.	17.5	320

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37	Multiplex detection of single-nucleotide variations using molecular beacons. Genetic Analysis, Techniques and Applications, 1999, 14, 151-156.	1.5	265
38	Multicolor molecular beacons for allele discrimination. Nature Biotechnology, 1998, 16, 49-53.	17.5	1,276
39	Molecular beacon sequence analysis for detecting drug resistance in Mycobacterium tuberculosis. Nature Biotechnology, 1998, 16, 359-363.	17.5	393
40	Messenger RNA release from ribosomes during 5'-translational blockage by consecutive low-usage arginine but not leucine codons in Escherichia coli. Molecular Microbiology, 1998, 27, 669-669.	2.5	0
41	MOLECULAR BEACONS: Spectral Genotyping of Human Alleles. Science, 1998, 279, 1228-1229.	12.6	316
42	Molecular beacons: a new approach for semiautomated mutation analysis. Clinical Chemistry, 1998, 44, 482-486.	3.2	116
43	Messenger RNA release from ribosomes during 5'â€translational blockage by consecutive lowâ€usage arginine but not leucine codons in Escherichia coli. Molecular Microbiology, 1997, 25, 707-716.	2.5	43
44	Molecular Beacons: Probes that Fluoresce upon Hybridization. Nature Biotechnology, 1996, 14, 303-308.	17.5	3,956