

Sanjay Tyagi

List of Publications by Year in descending order

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44
papers

11,863
citations

236612

25
h-index

243296

44
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48
all docs

48
docs citations

48
times ranked

11056
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Beacons: Probes that Fluoresce upon Hybridization. <i>Nature Biotechnology</i> , 1996, 14, 303-308.	9.4	3,956
2	Imaging individual mRNA molecules using multiple singly labeled probes. <i>Nature Methods</i> , 2008, 5, 877-879.	9.0	1,770
3	Stochastic mRNA Synthesis in Mammalian Cells. <i>PLoS Biology</i> , 2006, 4, e309.	2.6	1,528
4	Multicolor molecular beacons for allele discrimination. <i>Nature Biotechnology</i> , 1998, 16, 49-53.	9.4	1,276
5	Molecular beacon sequence analysis for detecting drug resistance in <i>Mycobacterium tuberculosis</i> . <i>Nature Biotechnology</i> , 1998, 16, 359-363.	9.4	393
6	Imaging intracellular RNA distribution and dynamics in living cells. <i>Nature Methods</i> , 2009, 6, 331-338.	9.0	365
7	Wavelength-shifting molecular beacons. <i>Nature Biotechnology</i> , 2000, 18, 1191-1196.	9.4	320
8	MOLECULAR BEACONS: Spectral Genotyping of Human Alleles. <i>Science</i> , 1998, 279, 1228-1229.	6.0	316
9	Multiplex detection of single-nucleotide variations using molecular beacons. <i>Genetic Analysis, Techniques and Applications</i> , 1999, 14, 151-156.	1.5	265
10	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.	3.3	242
11	Single-Molecule Imaging of Transcriptionally Coupled and Uncoupled Splicing. <i>Cell</i> , 2011, 147, 1054-1065.	13.5	203
12	Imaging Native β -Actin mRNA in Motile Fibroblasts. <i>Biophysical Journal</i> , 2004, 87, 4153-4162.	0.2	149
13	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.	3.3	131
14	Molecular beacons: a new approach for semiautomated mutation analysis. <i>Clinical Chemistry</i> , 1998, 44, 482-486.	1.5	116
15	Biphasic Dynamics of Macrophage Immunometabolism during <i>Mycobacterium tuberculosis</i> Infection. <i>MBio</i> , 2019, 10, .	1.8	101
16	Single-cell analysis shows that paracrine signaling by first responder cells shapes the interferon- β response to viral infection. <i>Science Signaling</i> , 2015, 8, ra16.	1.6	73
17	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.	5.5	68
18	Immunometabolism of Phagocytes During <i>Mycobacterium tuberculosis</i> Infection. <i>Frontiers in Molecular Biosciences</i> , 2019, 6, 105.	1.6	65

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19	Detection of Extracellular Vesicle RNA Using Molecular Beacons. <i>IScience</i> , 2020, 23, 100782.	1.9	48
20	Messenger RNA release from ribosomes during 5'â€²â€²translational blockage by consecutive lowâ€²usage arginine but not leucine codons in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 1997, 25, 707-716.	1.2	43
21	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.	3.3	41
22	Multiplex PCR Assays for Identifying all Major Severe Acute Respiratory Syndrome Coronavirus 2 Variants. <i>Journal of Molecular Diagnostics</i> , 2022, 24, 309-319.	1.2	36
23	Active Tuberculosis Is Characterized by Highly Differentiated Effector Memory Th1 Cells. <i>Frontiers in Immunology</i> , 2018, 9, 2127.	2.2	35
24	Fusion FISH Imaging: Single-Molecule Detection of Gene Fusion Transcripts In Situ. <i>PLoS ONE</i> , 2014, 9, e93488.	1.1	33
25	Multiplex Real-Time PCR Assays that Measure the Abundance of Extremely Rare Mutations Associated with Cancer. <i>PLoS ONE</i> , 2016, 11, e0156546.	1.1	29
26	Barriers to transmission of transcriptional noise in a câ€²fos câ€²jun pathway. <i>Molecular Systems Biology</i> , 2013, 9, 687.	3.2	27
27	Profiling T Cell Activation Using Single-Molecule Fluorescence In Situ Hybridization and Flow Cytometry. <i>Journal of Immunology</i> , 2015, 194, 836-841.	0.4	27
28	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, .	3.3	27
29	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.	1.5	22
30	Taking a census of mRNA populations with microbeads. <i>Nature Biotechnology</i> , 2000, 18, 597-598.	9.4	20
31	<i>E. coli</i> , What a Noisy Bug. <i>Science</i> , 2010, 329, 518-519.	6.0	20
32	SARSâ€²CoVâ€², SARSâ€²CoV, and MERSâ€²CoV encode circular RNAs of spliceosomeâ€²independent origin. <i>Journal of Medical Virology</i> , 2022, 94, 3203-3222.	2.5	17
33	Glutamine Is Required for M1-like Polarization of Macrophages in Response to <i>Mycobacterium tuberculosis</i> Infection. <i>MBio</i> , 2022, 13, .	1.8	17
34	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.	1.1	16
35	Tuning noise in gene expression. <i>Molecular Systems Biology</i> , 2015, 11, 805.	3.2	11
36	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.	1.2	11

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37	Fluorescence In Situ Imaging of Dendritic RNAs at Single-Molecule Resolution. <i>Current Protocols in Neuroscience</i> , 2019, 89, e79.	2.6	10
38	Color-coded molecular beacons for multiplex PCR screening assays. <i>PLoS ONE</i> , 2019, 14, e0213906.	1.1	9
39	Circular RNAs Represent a Novel Class of Human Cytomegalovirus Transcripts. <i>Microbiology Spectrum</i> , 2022, 10, .	1.2	8
40	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, .	2.1	7
41	Single-Cell Cytokine Gene Expression in Peripheral Blood Cells Correlates with Latent Tuberculosis Status. <i>PLoS ONE</i> , 2015, 10, e0144904.	1.1	6
42	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.	1.0	3
43	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.	1.2	1
44	Messenger RNA release from ribosomes during 5'-translational blockage by consecutive low-usage arginine but not leucine codons in <i>Escherichia coli</i> . <i>Molecular Microbiology</i> , 1998, 27, 669-669.	1.2	0