

# Sanjay K Jain

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2212890/publications.pdf>

Version: 2024-02-01

113  
papers

4,424  
citations

87888

38  
h-index

133252

59  
g-index

126  
all docs

126  
docs citations

126  
times ranked

5021  
citing authors

#	ARTICLE	IF	CITATIONS
1	124I-Iodo-DPA-713 Positron Emission Tomography in a Hamster Model of SARS-CoV-2 Infection. <i>Molecular Imaging and Biology</i> , 2022, 24, 135-143.	2.6	16
2	Progression and Resolution of Severe Acute Respiratory Syndrome Coronavirus 2 (SARS-CoV-2) Infection in Golden Syrian Hamsters. <i>American Journal of Pathology</i> , 2022, 192, 195-207.	3.8	22
3	Pharmacokinetics of high-titer anti-SARS-CoV-2 human convalescent plasma in high-risk children. <i>JCI Insight</i> , 2022, 7, .	5.0	12
4	11C-Para-aminobenzoic acid PET imaging of <i>S. aureus</i> and MRSA infection in preclinical models and humans. <i>JCI Insight</i> , 2022, 7, .	5.0	11
5	High-dose rifampin improves bactericidal activity without increased intracerebral inflammation in animal models of tuberculous meningitis. <i>Journal of Clinical Investigation</i> , 2022, 132, .	8.2	19
6	Sulforaphane exhibits antiviral activity against pandemic SARS-CoV-2 and seasonal HCoV-OC43 coronaviruses in vitro and in mice. <i>Communications Biology</i> , 2022, 5, 242.	4.4	42
7	Evaluation of 2-[18F]-Fluorodeoxysorbitol PET Imaging in Preclinical Models of <i>Aspergillus</i> Infection. <i>Journal of Fungi (Basel, Switzerland)</i> , 2022, 8, 25.	3.5	6
8	PET/CT imaging of CSF1R in a mouse model of tuberculosis. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2022, 49, 4088-4096.	6.4	1
9	Imaging of Bacterial Infections. , 2021, , 1469-1485.		1
10	Visualizing the dynamics of tuberculosis pathology using molecular imaging. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	12
11	Chemiluminescent Protease Probe for Rapid, Sensitive, and Inexpensive Detection of Live <i>Mycobacterium tuberculosis</i> . <i>ACS Central Science</i> , 2021, 7, 803-814.	11.3	31
12	Imaging <i>Enterobacterales</i> infections in patients using pathogen-specific positron emission tomography. <i>Science Translational Medicine</i> , 2021, 13, .	12.4	49
13	Rapid detection of SARS-CoV-2 using a radiolabeled antibody. <i>Nuclear Medicine and Biology</i> , 2021, 98-99, 69-75.	0.6	2
14	Sex Differences in Lung Imaging and SARS-CoV-2 Antibody Responses in a COVID-19 Golden Syrian Hamster Model. <i>MBio</i> , 2021, 12, e0097421.	4.1	69
15	Hamsters as a Model of Severe Acute Respiratory Syndrome Coronavirus-2. <i>Comparative Medicine</i> , 2021, 71, 398-410.	1.0	13
16	Current and future perspectives on functional molecular imaging in nephro-urology: theranostics on the horizon. <i>Theranostics</i> , 2021, 11, 6105-6119.	10.0	13
17	The integrated stress response mediates necrosis in murine <i>Mycobacterium tuberculosis</i> granulomas. <i>Journal of Clinical Investigation</i> , 2021, 131, .	8.2	27
18	Kit-based synthesis of 2-deoxy-2-[18F]-fluoro-d-sorbitol for bacterial imaging. <i>Nature Protocols</i> , 2021, 16, 5274-5286.	12.0	12

#	ARTICLE	IF	CITATIONS
19	Dynamic PET-facilitated modeling and high-dose rifampin regimens for <i>Staphylococcus aureus</i> orthopedic implant-associated infections. <i>Science Translational Medicine</i> , 2021, 13, eabl6851.	12.4	16
20	Rabbit model of <i>Staphylococcus aureus</i> implant-associated spinal infection. <i>DMM Disease Models and Mechanisms</i> , 2020, 13, .	2.4	10
21	Evaluation of Musculoskeletal and Pulmonary Bacterial Infections With [ <sup>124</sup> I]FIAU PET/CT. <i>Molecular Imaging</i> , 2020, 19, 153601212093687.	1.4	11
22	Modelling kidney disease using ontology: insights from the Kidney Precision Medicine Project. <i>Nature Reviews Nephrology</i> , 2020, 16, 686-696.	9.6	45
23	<sup>11</sup> C-PABA as a PET Radiotracer for Functional Renal Imaging: Preclinical and First-in-Human Study. <i>Journal of Nuclear Medicine</i> , 2020, 61, 1665-1671.	5.0	11
24	Advanced imaging tools for childhood tuberculosis: potential applications and research needs. <i>Lancet Infectious Diseases</i> , The, 2020, 20, e289-e297.	9.1	26
25	Dynamic imaging in patients with tuberculosis reveals heterogeneous drug exposures in pulmonary lesions. <i>Nature Medicine</i> , 2020, 26, 529-534.	30.7	87
26	Flagging Bacteria with Radiolabeled <i>d</i> -Amino Acids. <i>ACS Central Science</i> , 2020, 6, 97-99.	11.3	10
27	Radiotracer Development for Bacterial Imaging. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 1964-1977.	6.4	38
28	Caspase-Based PET for Evaluating Pro-Apoptotic Treatments in a Tuberculosis Mouse Model. <i>Molecular Imaging and Biology</i> , 2020, 22, 1489-1494.	2.6	6
29	Stability and Viability of SARS-CoV-2. <i>New England Journal of Medicine</i> , 2020, 382, 1962-1966.	27.0	45
30	Radiosynthesis and Biodistribution of <sup>18</sup> F-Linezolid in <i>Mycobacterium tuberculosis</i> -Infected Mice Using Positron Emission Tomography. <i>ACS Infectious Diseases</i> , 2020, 6, 916-921.	3.8	17
31	Cavitary tuberculosis: the gateway of disease transmission. <i>Lancet Infectious Diseases</i> , The, 2020, 20, e117-e128.	9.1	69
32	Matrix Metalloproteinase Inhibition in a Murine Model of Cavitary Tuberculosis Paradoxically Worsens Pathology. <i>Journal of Infectious Diseases</i> , 2019, 219, 633-636.	4.0	22
33	Imaging Pulmonary Foreign Body Reaction Using [ <sup>125</sup> I]iodo-DPA-713 SPECT/CT in Mice. <i>Molecular Imaging and Biology</i> , 2019, 21, 228-231.	2.6	1
34	Radiosynthesis and validation of [ <sup>11</sup> C]4-aminobenzoic acid ([ <sup>11</sup> C]-PABA), a PET radiotracer for imaging bacterial infections. <i>Journal of Labelled Compounds and Radiopharmaceuticals</i> , 2019, 62, 28-33.	1.0	6
35	SPECT/CT Imaging of <i>Mycobacterium tuberculosis</i> Infection with [ <sup>125</sup> I]anti-C3d mAb. <i>Molecular Imaging and Biology</i> , 2019, 21, 473-481.	2.6	19
36	Delamanid Central Nervous System Pharmacokinetics in Tuberculous Meningitis in Rabbits and Humans. <i>Antimicrobial Agents and Chemotherapy</i> , 2019, 63, .	3.2	37

#	ARTICLE	IF	CITATIONS
37	Radiosynthesis and PET Bioimaging of <sup>76</sup> Br-Bedaquiline in a Murine Model of Tuberculosis. ACS Infectious Diseases, 2019, 5, 1996-2002.	3.8	29
38	Molecular imaging of bacterial infections: Overcoming the barriers to clinical translation. Science Translational Medicine, 2019, 11, .	12.4	99
39	Treatment-Shortening Effect of a Novel Regimen Combining Clofazimine and High-Dose Rifapentine in Pathologically Distinct Mouse Models of Tuberculosis. Antimicrobial Agents and Chemotherapy, 2019, 63, .	3.2	23
40	Molecular Imaging: a Novel Tool To Visualize Pathogenesis of Infections <i>In Situ</i> . MBio, 2019, 10, .	4.1	30
41	Novel Functional Renal PET Imaging With <sup>18</sup> F-FDS in Human Subjects. Clinical Nuclear Medicine, 2019, 44, 410-411.	1.3	21
42	Molecular Imaging of Diabetic Foot Infections: New Tools for Old Questions. International Journal of Molecular Sciences, 2019, 20, 5984.	4.1	6
43	Imaging Macrophage-associated Inflammation. Seminars in Nuclear Medicine, 2018, 48, 242-245.	4.6	14
44	Pharmacokinetics of rifapentine and rifampin in a rabbit model of tuberculosis and correlation with clinical trial data. Science Translational Medicine, 2018, 10, .	12.4	40
45	Pathogen-Specific Bacterial Imaging in Nuclear Medicine. Seminars in Nuclear Medicine, 2018, 48, 182-194.	4.6	34
46	[ <sup>11</sup> C]Para-Aminobenzoic Acid: A Positron Emission Tomography Tracer Targeting Bacteria-Specific Metabolism. ACS Infectious Diseases, 2018, 4, 1067-1072.	3.8	54
47	Biodistribution and Radiation Dosimetry of <sup>124</sup> I-DPA-713, a PET Radiotracer for Macrophage-Associated Inflammation. Journal of Nuclear Medicine, 2018, 59, 1751-1756.	5.0	22
48	Joint solution for PET image segmentation, denoising, and partial volume correction. Medical Image Analysis, 2018, 46, 229-243.	11.6	31
49	Mobile Phone Incentives for Childhood Immunizations in Rural India. Pediatrics, 2018, 141, .	2.1	24
50	Noninvasive <sup>11</sup> C-rifampin positron emission tomography reveals drug biodistribution in tuberculous meningitis. Science Translational Medicine, 2018, 10, .	12.4	73
51	Adjunct antibody administration with standard treatment reduces relapse rates in a murine tuberculosis model of necrotic granulomas. PLoS ONE, 2018, 13, e0197474.	2.5	15
52	Positron Emission Tomography Imaging with 2-[ <sup>18</sup> F]- <i>p</i> -Aminobenzoic Acid Detects <i>Staphylococcus aureus</i> Infections and Monitors Drug Response. ACS Infectious Diseases, 2018, 4, 1635-1644.	3.8	63
53	The Promise of Molecular Imaging in the Study and Treatment of Infectious Diseases. Molecular Imaging and Biology, 2017, 19, 341-347.	2.6	55
54	Oral-Only Linezolid-Rifampin Is Highly Effective Compared with Other Antibiotics for Periprosthetic Joint Infection. Journal of Bone and Joint Surgery - Series A, 2017, 99, 656-665.	3.0	41

#	ARTICLE	IF	CITATIONS
55	Effects of primary and recurrent sacral chordoma on the motor and nociceptive function of hindlimbs in rats: an orthotopic spine model. <i>Journal of Neurosurgery: Spine</i> , 2017, 27, 215-226.	1.7	5
56	Management of Tuberculosis in Special Populations. , 2017, , 141-190.		1
57	Successful cure of extensively drug-resistant pulmonary tuberculosis in a young child. <i>Lancet Infectious Diseases</i> , The, 2017, 17, 898-899.	9.1	1
58	Balancing the Risks of Radiation and Anesthesia in Pediatric Patients. <i>Journal of the American College of Radiology</i> , 2017, 14, 1459-1461.	1.8	14
59	A Systematic Approach for Developing Bacteria-Specific Imaging Tracers. <i>Journal of Nuclear Medicine</i> , 2017, 58, 144-150.	5.0	86
60	Re. <i>Clinical Nuclear Medicine</i> , 2017, 42, 649.	1.3	2
61	Biodistribution and Pharmacokinetics of Antimicrobials. , 2017, , 209-222.		6
62	Bacterial Imaging. , 2017, , 149-172.		2
63	The biodistribution of 5-[18F]fluoropyrazinamide in <i>Mycobacterium tuberculosis</i> -infected mice determined by positron emission tomography. <i>PLoS ONE</i> , 2017, 12, e0170871.	2.5	16
64	Design of Selective Substrates and Activity-Based Probes for Hydrolase Important for Pathogenesis 1 (HIP1) from <i>Mycobacterium tuberculosis</i> . <i>ACS Infectious Diseases</i> , 2016, 2, 807-815.	3.8	45
65	Mouse model of pulmonary cavitory tuberculosis and expression of matrix metalloproteinase-9. <i>DMM Disease Models and Mechanisms</i> , 2016, 9, 779-88.	2.4	49
66	Microglia activation in a pediatric rabbit model of tuberculous meningitis. <i>DMM Disease Models and Mechanisms</i> , 2016, 9, 1497-1506.	2.4	51
67	Polymeric nanofiber coating with tunable combinatorial antibiotic delivery prevents biofilm-associated infection in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6919-E6928.	7.1	85
68	The antifibrotic drug pirfenidone promotes pulmonary cavitation and drug resistance in a mouse model of chronic tuberculosis. <i>JCI Insight</i> , 2016, 1, e86017.	5.0	10
69	Computer-aided pulmonary image analysis in small animal models. <i>Medical Physics</i> , 2015, 42, 3896-3910.	3.0	15
70	In Vivo Prediction of Tuberculosis-Associated Cavity Formation in Rabbits. <i>Journal of Infectious Diseases</i> , 2015, 211, 481-485.	4.0	13
71	Therapeutic Targeting of the Warburg Effect in Pancreatic Cancer Relies on an Absence of p53 Function. <i>Cancer Research</i> , 2015, 75, 3355-3364.	0.9	129
72	Imaging Chronic Tuberculous Lesions Using Sodium [18F]Fluoride Positron Emission Tomography in Mice. <i>Molecular Imaging and Biology</i> , 2015, 17, 609-614.	2.6	26

#	ARTICLE	IF	CITATIONS
73	Radioiodinated DPA-713 Imaging Correlates with Bactericidal Activity of Tuberculosis Treatments in Mice. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 642-649.	3.2	53
74	Determination of [ <sup>11</sup> C]Rifampin Pharmacokinetics within Mycobacterium tuberculosis-Infected Mice by Using Dynamic Positron Emission Tomography Bioimaging. <i>Antimicrobial Agents and Chemotherapy</i> , 2015, 59, 5768-5774.	3.2	47
75	Extensively drug-resistant tuberculosis in a young child after travel to India. <i>Lancet Infectious Diseases</i> , The, 2015, 15, 1485-1491.	9.1	36
76	<i>Mycobacterium tuberculosis</i> dysregulates MMP/TIMP balance to drive rapid cavitation and unrestrained bacterial proliferation. <i>Journal of Pathology</i> , 2015, 235, 431-444.	4.5	86
77	Imaging the Evolution of Reactivation Pulmonary Tuberculosis in Mice Using <sup>18</sup> F-FDG PET. <i>Journal of Nuclear Medicine</i> , 2014, 55, 1726-1729.	5.0	24
78	Accurate and efficient separation of left and right lungs from 3D CT scans: A generic hysteresis approach. , 2014, 2014, 6036-9.		3
79	Efficient ribcage segmentation from CT scans using shape features. , 2014, 2014, 2899-902.		8
80	Imaging Enterobacteriaceae infection in vivo with <sup>18</sup> F-fluorodeoxyisobutyl positron emission tomography. <i>Science Translational Medicine</i> , 2014, 6, 259ra146.	12.4	183
81	Characterization of a Novel Necrotic Granuloma Model of Latent Tuberculosis Infection and Reactivation in Mice. <i>American Journal of Pathology</i> , 2014, 184, 2045-2055.	3.8	50
82	Nuclear imaging: A powerful novel approach for tuberculosis. <i>Nuclear Medicine and Biology</i> , 2014, 41, 777-784.	0.6	28
83	Segmentation of PET Images for Computer-Aided Functional Quantification of Tuberculosis in Small Animal Models. <i>IEEE Transactions on Biomedical Engineering</i> , 2014, 61, 711-724.	4.2	58
84	<i>Infectious Disease Imaging</i> . , 2014, , 159-179.		1
85	A computational pipeline for quantification of pulmonary infections in small animal models using serial PET-CT imaging. <i>EJNMMI Research</i> , 2013, 3, 55.	2.5	31
86	Robust segmentation and accurate target definition for positron emission tomography images using Affinity Propagation. , 2013, , .		10
87	Noninvasive Molecular Imaging of Tuberculosis-Associated Inflammation With Radioiodinated DPA-713. <i>Journal of Infectious Diseases</i> , 2013, 208, 2067-2074.	4.0	45
88	Pediatric Tuberculosis in Young Children in India: A Prospective Study. <i>BioMed Research International</i> , 2013, 2013, 1-7.	1.9	49
89	Novel vaccine strategies against tuberculosis: a road less travelled. <i>Expert Review of Vaccines</i> , 2013, 12, 1373-1375.	4.4	1
90	Computer-aided detection and quantification of cavitary tuberculosis from CT scans. <i>Medical Physics</i> , 2013, 40, 113701.	3.0	19

#	ARTICLE	IF	CITATIONS
91	Vaccination with Recombinant Mycobacterium tuberculosis PknD Attenuates Bacterial Dissemination to the Brain in Guinea Pigs. PLoS ONE, 2013, 8, e66310.	2.5	45
92	Mouse Model of Necrotic Tuberculosis Granulomas Develops Hypoxic Lesions. Journal of Infectious Diseases, 2012, 205, 595-602.	4.0	215
93	Role of Mycobacterium tuberculosis pknD in the Pathogenesis of central nervous system tuberculosis. BMC Microbiology, 2012, 12, 7.	3.3	62
94	Adjunctive TNF Inhibition with Standard Treatment Enhances Bacterial Clearance in a Murine Model of Necrotic TB Granulomas. PLoS ONE, 2012, 7, e39680.	2.5	67
95	Expression profiles of podocytes exposed to high glucose reveal new insights into early diabetic glomerulopathy. Laboratory Investigation, 2011, 91, 488-498.	3.7	18
96	Strain-dependent CNS dissemination in guinea pigs after Mycobacterium tuberculosis aerosol challenge. Tuberculosis, 2011, 91, 386-389.	1.9	15
97	Incorporating user input in template-based segmentation. , 2011, 2011, 1434-1437.		3
98	Genetic Requirements for the Survival of Tubercle Bacilli in Primates. Journal of Infectious Diseases, 2010, 201, 1743-1752.	4.0	159
99	Bacterial Thymidine Kinase as a Non-Invasive Imaging Reporter for Mycobacterium tuberculosis in Live Animals. PLoS ONE, 2009, 4, e6297.	2.5	59
100	Template registration with missing parts: Application to the segmentation of M. tuberculosis infected lungs. , 2009, 2009, 718-721.		9
101	Pathogenesis of Central Nervous System Tuberculosis. Current Molecular Medicine, 2009, 9, 94-99.	1.3	135
102	Noninvasive Pulmonary [ <sup>18</sup> F]-2-Fluoro-Deoxy- <sup>18</sup> F-Fluorodeoxyglucose Positron Emission Tomography Correlates with Bactericidal Activity of Tuberculosis Drug Treatment. Antimicrobial Agents and Chemotherapy, 2009, 53, 4879-4884.	3.2	125
103	Role of the <i>dosR</i> - <i>dosS</i> Two-Component Regulatory System in <i>Mycobacterium tuberculosis</i> Virulence in Three Animal Models. Infection and Immunity, 2009, 77, 1230-1237.	2.2	150
104	Murine Model to Study the Invasion and Survival of <i>Mycobacterium tuberculosis</i> in the Central Nervous System. Journal of Infectious Diseases, 2008, 198, 1520-1528.	4.0	65
105	A World Wide Web-Based Antimicrobial Stewardship Program Improves Efficiency, Communication, and User Satisfaction and Reduces Cost in a Tertiary Care Pediatric Medical Center. Clinical Infectious Diseases, 2008, 47, 747-753.	5.8	97
106	Antibiotic Treatment of Tuberculosis: Old Problems, New Solutions. Microbe Magazine, 2008, 3, 285-292.	0.4	29
107	Accelerated Detection of <i>Mycobacterium tuberculosis</i> Genes Essential for Bacterial Survival in Guinea Pigs, Compared with Mice. Journal of Infectious Diseases, 2007, 195, 1634-1642.	4.0	43
108	Adherence to Therapy, Treatment Success, and the Prevention of Resistance. Infectious Diseases in Clinical Practice, 2006, 14, S15-S18.	0.3	0

#	ARTICLE	IF	CITATIONS
109	Tetracycline-inducible gene expression in mycobacteria within an animal host using modified Streptomyces tcp830 regulatory elements. Archives of Microbiology, 2006, 186, 459-464.	2.2	26
110	Mycobacterium tuberculosis Invasion and Traversal across an In Vitro Human Blood-Brain Barrier as a Pathogenic Mechanism for Central Nervous System Tuberculosis. Journal of Infectious Diseases, 2006, 193, 1287-1295.	4.0	132
111	Antimicrobial-Resistant Shigella sonnei. Pediatric Infectious Disease Journal, 2005, 24, 494-497.	2.0	34
112	Nosocomial Malaria and Saline Flush. Emerging Infectious Diseases, 2005, 11, 1097-1099.	4.3	22
113	Management and Outcomes of Intracranial Tuberculomas Developing During Antituberculous Therapy: Case Report and Review. Clinical Pediatrics, 2005, 44, 443-450.	0.8	27