

Taruna Madan

List of Publications by Year in descending order

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81
papers

2,746
citations

201674

27
h-index

189892

50
g-index

85
all docs

85
docs citations

85
times ranked

2712
citing authors

#	ARTICLE	IF	CITATIONS
1	Surfactant proteins SP-A and SP-D: Structure, function and receptors. <i>Molecular Immunology</i> , 2006, 43, 1293-1315.	2.2	468
2	Surfactant proteins A and D protect mice against pulmonary hypersensitivity induced by <i>Aspergillus fumigatus</i> antigens and allergens. <i>Journal of Clinical Investigation</i> , 2001, 107, 467-475.	8.2	175
3	Association of polymorphisms in the collagen region of SP-A2 with increased levels of total IgE antibodies and eosinophilia in patients with allergic bronchopulmonary aspergillosis. <i>Journal of Allergy and Clinical Immunology</i> , 2003, 111, 1001-1007.	2.9	125
4	Susceptibility of Mice Genetically Deficient in the Surfactant Protein (SP)-A or SP-D Gene to Pulmonary Hypersensitivity Induced by Antigens and Allergens of <i>Aspergillus fumigatus</i> . <i>Journal of Immunology</i> , 2005, 174, 6943-6954.	0.8	110
5	Proteomic and Transcriptomic Analysis of <i>Aspergillus fumigatus</i> on Exposure to Amphotericin B. <i>Antimicrobial Agents and Chemotherapy</i> , 2008, 52, 4220-4227.	3.2	102
6	Sensitization to <i>Aspergillus</i> Antigens and Occurrence of Allergic Bronchopulmonary Aspergillosis in Patients With Asthma. <i>Chest</i> , 2005, 127, 1252.	0.8	102
7	Protective Role of Lung Surfactant Protein D in a Murine Model of Invasive Pulmonary Aspergillosis. <i>Infection and Immunity</i> , 2001, 69, 2728-2731.	2.2	98
8	Protective effects of a recombinant fragment of human surfactant protein D in a murine model of pulmonary hypersensitivity induced by dust mite allergens. <i>Immunology Letters</i> , 2003, 86, 299-307.	2.5	66
9	Host-pathogen interaction in COVID-19: Pathogenesis, potential therapeutics and vaccination strategies. <i>Immunobiology</i> , 2020, 225, 152008.	1.9	65
10	Protective Roles of Pulmonary Surfactant Proteins, SP-A and SP-D, Against Lung Allergy and Infection Caused by. <i>Immunobiology</i> , 2002, 205, 610-618.	1.9	62
11	Susceptibility of mice genetically deficient in SP-A or SP-D gene to Invasive Pulmonary Aspergillosis. <i>Molecular Immunology</i> , 2010, 47, 1923-1930.	2.2	59
12	Recombinant surfactant protein-D selectively increases apoptosis in eosinophils of allergic asthmatics and enhances uptake of apoptotic eosinophils by macrophages. <i>International Immunology</i> , 2008, 20, 993-1007.	4.0	54
13	Transcriptomic and Proteomic Profile of <i>Aspergillus fumigatus</i> on Exposure to Artemisinin. <i>Mycopathologia</i> , 2011, 172, 331-346.	3.1	54
14	Association of Polymorphisms in Pulmonary Surfactant Protein A1 and A2 Genes With High-Altitude Pulmonary Edema. <i>Chest</i> , 2005, 128, 1611-1619.	0.8	52
15	Identification and characterization of a laminin-binding protein of <i>Aspergillus fumigatus</i> : extracellular thaumatin domain protein (AfCalAp). <i>Journal of Medical Microbiology</i> , 2009, 58, 714-722.	1.8	51
16	Human Surfactant Protein D Alters Oxidative Stress and HMGA1 Expression to Induce p53 Apoptotic Pathway in Eosinophil Leukemic Cell Line. <i>PLoS ONE</i> , 2013, 8, e85046.	2.5	47
17	Human Surfactant Protein D Binds Spike Protein and Acts as an Entry Inhibitor of SARS-CoV-2 Pseudotyped Viral Particles. <i>Frontiers in Immunology</i> , 2021, 12, 641360.	4.8	41
18	Surfactant Protein D Inhibits HIV-1 Infection of Target Cells via Interference with gp120-CD4 Interaction and Modulates Pro-Inflammatory Cytokine Production. <i>PLoS ONE</i> , 2014, 9, e102395.	2.5	40

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19	Fungal melanin stimulates surfactant protein D-mediated opsonization of and host immune response to <i>Aspergillus fumigatus</i> spores. <i>Journal of Biological Chemistry</i> , 2018, 293, 4901-4912.	3.4	36
20	Surfactant proteins SP-A and SP-D in human health and disease. <i>Archivum Immunologiae Et Therapiae Experimentalis</i> , 2005, 53, 399-417.	2.3	36
21	<i>Aspergillus fumigatus</i> conidial metalloprotease Mep1p cleaves host complement proteins. <i>Journal of Biological Chemistry</i> , 2018, 293, 15538-15555.	3.4	34
22	Linking surfactant protein SP-D and IL-13: Implications in asthma and allergy. <i>Molecular Immunology</i> , 2013, 54, 98-107.	2.2	33
23	Estradiol: A Steroid with Multiple Facets. <i>Hormone and Metabolic Research</i> , 2018, 50, 359-374.	1.5	33
24	Lung Surfactant Proteins A and D as Pattern Recognition Proteins. <i>Advances in Experimental Medicine and Biology</i> , 2009, 653, 74-97.	1.6	32
25	Biodegradable nanoparticles as a sustained release system for the antigens/allergens of <i>Aspergillus fumigatus</i> : preparation and characterisation. <i>International Journal of Pharmaceutics</i> , 1997, 159, 135-147.	5.2	31
26	Designing Antibacterial Peptides with Enhanced Killing Kinetics. <i>Frontiers in Microbiology</i> , 2018, 9, 325.	3.5	29
27	A Recombinant Fragment of Human Surfactant Protein D Binds Spike Protein and Inhibits Infectivity and Replication of SARS-CoV-2 in Clinical Samples. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2021, 65, 41-53.	2.9	29
28	Endometriotic mesenchymal stem cells exhibit a distinct immune phenotype. <i>International Immunology</i> , 2015, 27, 195-204.	4.0	27
29	Surfactant protein D induces immune quiescence and apoptosis of mitogen-activated peripheral blood mononuclear cells. <i>Immunobiology</i> , 2016, 221, 310-322.	1.9	27
30	Allergens/Antigens, Toxins and Polyketides of Important <i>Aspergillus</i> Species. <i>Indian Journal of Clinical Biochemistry</i> , 2011, 26, 104-119.	1.9	26
31	Use of a Synthetic Peptide Epitope of Asp f 1, a Major Allergen or Antigen of <i>Aspergillus fumigatus</i> , for Improved Immunodiagnosis of Allergic Bronchopulmonary Aspergillosis. <i>Vaccine Journal</i> , 2004, 11, 552-558.	3.1	25
32	Ovarian Hormones Regulate SP-D Expression in the Mouse Uterus During Estrous Cycle and Early Pregnancy. <i>American Journal of Reproductive Immunology</i> , 2015, 74, 77-88.	1.2	25
33	Linking surfactant protein SP-D and IL-13: Implications in asthma and allergy. <i>Molecular Immunology</i> , 2013, 54, 98-107.	2.2	25
34	Plasma mannan-binding lectin levels and activity are increased in allergic patients. <i>Journal of Allergy and Clinical Immunology</i> , 2005, 116, 1381-1383.	2.9	24
35	Therapeutic effects of recombinant forms of full-length and truncated human surfactant protein D in a murine model of invasive pulmonary aspergillosis. <i>Molecular Immunology</i> , 2009, 46, 2363-2369.	2.2	24
36	Role of collectins and complement protein C1q in pregnancy and parturition. <i>Immunobiology</i> , 2016, 221, 1273-1288.	1.9	24

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37	Protein-Protein Interaction between Surfactant Protein D and DC-SIGN via C-Type Lectin Domain Can Suppress HIV-1 Transfer. <i>Frontiers in Immunology</i> , 2017, 8, 834.	4.8	23
38	Identification and evaluation of a major cytotoxin of <i>A. fumigatus</i> . <i>Molecular and Cellular Biochemistry</i> , 1997, 167, 89-97.	3.1	20
39	Identification and Assignment of Function to the Genes of <i>Aspergillus fumigatus</i> Expressed at 37 oC. <i>Journal of Eukaryotic Microbiology</i> , 2004, 51, 428-432.	1.7	20
40	Identification of Fibrinogen-Binding Proteins of <i>Aspergillus fumigatus</i> Using Proteomic Approach. <i>Mycopathologia</i> , 2012, 173, 73-82.	3.1	20
41	Surfactant protein SP-D modulates activity of immune cells: proteomic profiling of its interaction with eosinophilic cells. <i>Expert Review of Proteomics</i> , 2014, 11, 355-369.	3.0	20
42	Differential Expression of Collectins in Human Placenta and Role in Inflammation during Spontaneous Labor. <i>PLoS ONE</i> , 2014, 9, e108815.	2.5	19
43	Mannan-Binding lectin in asthma and allergy. <i>Current Allergy and Asthma Reports</i> , 2006, 6, 377-383.	5.3	17
44	Ribonuclease activity dependent cytotoxicity of Asp fl, a major allergen of <i>A. fumigatus</i> . <i>Molecular and Cellular Biochemistry</i> , 1997, 175, 21-27.	3.1	16
45	Identification of 45 kD antigen in immune complexes of patients of allergic bronchopulmonary aspergillosis. <i>Molecular and Cellular Biochemistry</i> , 1997, 166, 111-116.	3.1	16
46	Inducible nitric oxide synthase (iNOS) gene polymorphism in pre-eclampsia: A pilot study in North India. <i>Australian and New Zealand Journal of Obstetrics and Gynaecology</i> , 2007, 47, 477-482.	1.0	15
47	Multifunctional Antigens of <i>A. fumigatus</i> , and Specific Antibodies. <i>Applied Biochemistry and Biotechnology</i> , 2000, 83, 271-286.	2.9	14
48	In-depth 2-DE reference map of <i>Aspergillus fumigatus</i> and its proteomic profiling on exposure to itraconazole. <i>Medical Mycology</i> , 2016, 54, 524-536.	0.7	14
49	Testicular expression of SP-A, SP-D and MBL-A is positively regulated by testosterone and modulated by lipopolysaccharide. <i>Immunobiology</i> , 2016, 221, 975-985.	1.9	13
50	Fertility defects in Surfactant associated protein D knockout female mice: altered ovarian hormone profile. <i>Molecular Immunology</i> , 2016, 71, 87-97.	2.2	13
51	Surfactant proteins A and D in pregnancy and parturition. <i>Frontiers in Bioscience - Elite</i> , 2011, E3, 291-300.	1.8	12
52	Expression of surfactant proteins SP-A and SP-D in murine decidua and immunomodulatory effects on decidual macrophages. <i>Immunobiology</i> , 2016, 221, 377-386.	1.9	12
53	Hyaluronic Acid Present in the Tumor Microenvironment Can Negate the Pro-apoptotic Effect of a Recombinant Fragment of Human Surfactant Protein D on Breast Cancer Cells. <i>Frontiers in Immunology</i> , 2020, 11, 1171.	4.8	12
54	Mesenchymal stem cells: a promising tool for targeted gene therapy of endometriosis. <i>Regenerative Medicine</i> , 2017, 12, 69-76.	1.7	11

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55	Surfactant Protein D Reverses the Gene Signature of Transepithelial HIV-1 Passage and Restricts the Viral Transfer Across the Vaginal Barrier. <i>Frontiers in Immunology</i> , 2019, 10, 264.	4.8	11
56	Purification of Surfactant Protein D (SP-D) from Pooled Amniotic Fluid and Bronchoalveolar Lavage. <i>Methods in Molecular Biology</i> , 2014, 1100, 273-290.	0.9	11
57	Immunodiagnosis of ABPA. <i>Frontiers in Bioscience - Landmark</i> , 2003, 8, s1187-1198.	3.0	10
58	Complement Protein C1q Interacts with DC-SIGN via Its Globular Domain and Thus May Interfere with HIV-1 Transmission. <i>Frontiers in Immunology</i> , 2016, 7, 600.	4.8	10
59	Differential levels of surfactant protein A, surfactant protein D, and progesterone to estradiol ratio in maternal serum before and after the onset of severe early-onset preeclampsia. <i>American Journal of Reproductive Immunology</i> , 2020, 83, e13208.	1.2	10
60	Expression and localization of collectins in feto-maternal tissues of human first trimester spontaneous abortion and abortion prone mouse model. <i>Immunobiology</i> , 2016, 221, 260-268.	1.9	9
61	Surfactant protein D regulates murine testicular immune milieu and sperm functions. <i>American Journal of Reproductive Immunology</i> , 2017, 77, e12629.	1.2	9
62	Human SP-D Acts as an Innate Immune Surveillance Molecule Against Androgen-Responsive and Androgen-Resistant Prostate Cancer Cells. <i>Frontiers in Oncology</i> , 2019, 9, 565.	2.8	9
63	Interplay between C-type lectin receptors and microRNAs in cellular homeostasis and immune response. <i>FEBS Journal</i> , 2021, 288, 4210-4229.	4.7	9
64	Differential Interactions of Serum and Bronchoalveolar Lavage Fluid Complement Proteins with Conidia of Airborne Fungal Pathogen <i>Aspergillus fumigatus</i> . <i>Infection and Immunity</i> , 2020, 88, .	2.2	9
65	Purification of Native Surfactant Protein SP-A from Pooled Amniotic Fluid and Bronchoalveolar Lavage. <i>Methods in Molecular Biology</i> , 2014, 1100, 257-272.	0.9	8
66	Surfactant Protein D Recognizes Multiple Fungal Ligands: A Key Step to Initiate and Intensify the Anti-fungal Host Defense. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 229.	3.9	8
67	Potential of Lung Surfactant Proteins, SP-A and SP-D, and Mannan Binding Lectin for Therapy and Genetic Predisposition to Allergic and Invasive Aspergillosis. <i>Recent Patents on Inflammation and Allergy Drug Discovery</i> , 2007, 1, 183-187.	3.6	7
68	Immunoproteomic analysis of secretory proteins of <i>Aspergillus fumigatus</i> with specific IGE immunoreactivity. <i>Indian Journal of Clinical Biochemistry</i> , 2006, 21, 12-19.	1.9	6
69	Tryptophan residue is essential for immunoreactivity of a diagnostically relevant peptide epitope of <i>A. fumigatus</i> . <i>Molecular and Cellular Biochemistry</i> , 2005, 275, 223-231.	3.1	5
70	Serum Levels of Collectins Are Sustained During Pregnancy: Surfactant Protein D Levels Are Dysregulated Prior to Missed Abortion. <i>Reproductive Sciences</i> , 2020, 27, 1894-1908.	2.5	5
71	Editorial: Odyssey of Surfactant Proteins SP-A and SP-D: Innate Immune Surveillance Molecules. <i>Frontiers in Immunology</i> , 2020, 11, 394.	4.8	5
72	Identification and characterization of polyubiquitin gene from cDNA library of <i>aspergillus fumigatus</i> . <i>Indian Journal of Clinical Biochemistry</i> , 2005, 20, 208-212.	1.9	4

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73	Prophylactic and Therapeutic Potential of Asp f1 Epitopes in Na ⁺ ve and Sensitized BALB/c Mice. Immune Network, 2009, 9, 179.	3.6	4
74	Innate Immune Response Against HIV-1. Advances in Experimental Medicine and Biology, 2021, 1313, 23-58.	1.6	4
75	Surfactant protein D inhibits growth, alters cell surface polysaccharide exposure and immune activation potential of Aspergillus fumigatus. Cell Surface, 2022, 8, 100072.	3.0	4
76	Recombinant Fragment of Human Surfactant Protein D: A Hierarchical Regulator of Pulmonary Hypersensitivity. American Journal of Respiratory and Critical Care Medicine, 2017, 196, 1495-1496.	5.6	3
77	Immunomodulatory Role of Surfactant Protein-D in a Transgenic Adenocarcinoma of Mouse Prostate (TRAMP) Model. Frontiers in Immunology, 0, 13, .	4.8	1
78	Dysregulated serum and seminal plasma levels of surfactant protein D and MCPa€1 in men with genital tract infection/inflammation. American Journal of Reproductive Immunology, 2023, 89, .	1.2	1
79	Surfactant Protein D in Immune Surveillance Against Cancer. , 2021, , 147-163.		0
80	Collectins in Regulation of Feto-Maternal Cross-Talk. , 2021, , 185-206.		0
81	Uterine Stem Cells and Their Future Therapeutic Potential in Regenerative Medicine. Pancreatic Islet Biology, 2017, , 153-174.	0.3	0