

# Ruchi Bansal

## List of Publications by Year in descending order

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76  
papers

2,988  
citations

136950

32  
h-index

182427

51  
g-index

80  
all docs

80  
docs citations

80  
times ranked

4597  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D-Bioprinted Mini-Brain: A Glioblastoma Model to Study Cellular Interactions and Therapeutics. <i>Advanced Materials</i> , 2019, 31, e1806590.	21.0	168
2	Therapeutic Targeting of Hepatic Macrophages for the Treatment of Liver Diseases. <i>Frontiers in Immunology</i> , 2019, 10, 2852.	4.8	157
3	Integrins in wound healing, fibrosis and tumor stroma: High potential targets for therapeutics and drug delivery. <i>Advanced Drug Delivery Reviews</i> , 2018, 129, 37-53.	13.7	145
4	Targeting the Stat6 pathway in tumor-associated macrophages reduces tumor growth and metastatic niche formation in breast cancer. <i>FASEB Journal</i> , 2018, 32, 969-978.	0.5	134
5	The carboxylate-releasing phosphorus-mobilizing strategy can be proxied by foliar manganese concentration in a large set of chickpea germplasm under low phosphorus supply. <i>New Phytologist</i> , 2018, 219, 518-529.	7.3	130
6	Drug targeting to myofibroblasts: Implications for fibrosis and cancer. <i>Advanced Drug Delivery Reviews</i> , 2017, 121, 101-116.	13.7	121
7	Targeting Pancreatic Stellate Cells in Cancer. <i>Trends in Cancer</i> , 2019, 5, 128-142.	7.4	97
8	Complete regression of breast tumour with a single dose of docetaxel-entrapped core-cross-linked polymeric micelles. <i>Biomaterials</i> , 2015, 53, 370-378.	11.4	88
9	Nano-targeted relaxin impairs fibrosis and tumor growth in pancreatic cancer and improves the efficacy of gemcitabine in vivo. <i>Journal of Controlled Release</i> , 2018, 290, 1-10.	9.9	88
10	Matrix Metalloproteinases as Potential Biomarkers and Therapeutic Targets in Liver Diseases. <i>Cells</i> , 2020, 9, 1212.	4.1	87
11	Clinical Advancements in the Targeted Therapies against Liver Fibrosis. <i>Mediators of Inflammation</i> , 2016, 2016, 1-16.	3.0	81
12	ITGA5 inhibition in pancreatic stellate cells attenuates desmoplasia and potentiates efficacy of chemotherapy in pancreatic cancer. <i>Science Advances</i> , 2019, 5, eaax2770.	10.3	81
13	Novel engineered targeted interferon-gamma blocks hepatic fibrogenesis in mice. <i>Hepatology</i> , 2011, 54, 586-596.	7.3	80
14	Inhibition of canonical WNT signaling pathway by $\beta$ -catenin/CBP inhibitor ICG-001 ameliorates liver fibrosis in vivo through suppression of stromal CXCL12. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 804-818.	3.8	73
15	Selective delivery of IFN- $\gamma$ to renal interstitial myofibroblasts: a novel strategy for the treatment of renal fibrosis. <i>FASEB Journal</i> , 2015, 29, 1029-1042.	0.5	70
16	The interplay of the Notch signaling in hepatic stellate cells and macrophages determines the fate of liver fibrogenesis. <i>Scientific Reports</i> , 2016, 5, 18272.	3.3	70
17	Metal tolerance in plants: Molecular and physicochemical interface determines the "not so heavy effect" of heavy metals. <i>Chemosphere</i> , 2022, 287, 131957.	8.2	66
18	Integrin alpha 11 in the regulation of the myofibroblast phenotype: implications for fibrotic diseases. <i>Experimental and Molecular Medicine</i> , 2017, 49, e396-e396.	7.7	61

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19	Bioengineered 3D Models to Recapitulate Tissue Fibrosis. <i>Trends in Biotechnology</i> , 2020, 38, 623-636.	9.3	58
20	Innate Immunity and Pathogenesis of Biliary Atresia. <i>Frontiers in Immunology</i> , 2020, 11, 329.	4.8	51
21	Selective Targeting of Interferon $\hat{I}^3$ to Stromal Fibroblasts and Pericytes as a Novel Therapeutic Approach to Inhibit Angiogenesis and Tumor Growth. <i>Molecular Cancer Therapeutics</i> , 2012, 11, 2419-2428.	4.1	46
22	Peptide-Modified Albumin Carrier Explored as a Novel Strategy for a Cell-Specific Delivery of Interferon Gamma To Treat Liver Fibrosis. <i>Molecular Pharmaceutics</i> , 2011, 8, 1899-1909.	4.6	43
23	Antioxidative defense system in pigeonpea roots under waterlogging stress. <i>Acta Physiologiae Plantarum</i> , 2012, 34, 515-522.	2.1	42
24	PEGylation improves pharmacokinetic profile, liver uptake and efficacy of Interferon gamma in liver fibrosis. <i>Journal of Controlled Release</i> , 2011, 154, 233-240.	9.9	41
25	Integrin $\hat{I}^11$ in pancreatic stellate cells regulates tumor stroma interaction in pancreatic cancer. <i>FASEB Journal</i> , 2019, 33, 6609-6621.	0.5	41
26	Leaf transpiration plays a role in phosphorus acquisition among a large set of chickpea genotypes. <i>Plant, Cell and Environment</i> , 2018, 41, 2069-2079.	5.7	40
27	Interferon gamma peptidomimetic targeted to hepatic stellate cells ameliorates acute and chronic liver fibrosis in vivo. <i>Journal of Controlled Release</i> , 2014, 179, 18-24.	9.9	39
28	Tyrosine kinase inhibitor BIBF1120 ameliorates inflammation, angiogenesis and fibrosis in CCl4-induced liver fibrogenesis mouse model. <i>Scientific Reports</i> , 2017, 7, 44545.	3.3	39
29	Therapeutic inhibition of spleen tyrosine kinase in inflammatory macrophages using PLGA nanoparticles for the treatment of non-alcoholic steatohepatitis. <i>Journal of Controlled Release</i> , 2018, 288, 227-238.	9.9	37
30	Immune Organs and Immune Cells on a Chip: An Overview of Biomedical Applications. <i>Micromachines</i> , 2020, 11, 849.	2.9	37
31	The hepatic lipidome: From basic science to clinical translation. <i>Advanced Drug Delivery Reviews</i> , 2020, 159, 180-197.	13.7	37
32	Fibroblast growth factor 2 conjugated superparamagnetic iron oxide nanoparticles (FGF2-SPIONs) ameliorate hepatic stellate cells activation in vitro and acute liver injury in vivo. <i>Journal of Controlled Release</i> , 2020, 328, 640-652.	9.9	35
33	Delivery Strategies for Skin: Comparison of Nanoliter Jets, Needles and Topical Solutions. <i>Annals of Biomedical Engineering</i> , 2020, 48, 2028-2039.	2.5	34
34	Matrix metalloproteinase-1 decorated polymersomes, a surface-active extracellular matrix therapeutic, potentiates collagen degradation and attenuates early liver fibrosis. <i>Journal of Controlled Release</i> , 2021, 332, 594-607.	9.9	34
35	A Review of Oxidative Stress Products and Related Genes in Early Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2021, 83, 977-1001.	2.6	34
36	In vitro assessment of mixed matrix hemodialysis membrane for achieving endotoxin-free dialysate combined with high removal of uremic toxins from human plasma. <i>Acta Biomaterialia</i> , 2019, 90, 100-111.	8.3	33

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37	Preclinical detection of liver fibrosis using dual-modality photoacoustic/ultrasound system. <i>Biomedical Optics Express</i> , 2016, 7, 5081.	2.9	32
38	FGF2 engineered SPIONs attenuate tumor stroma and potentiate the effect of chemotherapy in 3D heterospheroidal model of pancreatic tumor. <i>Nanotheranostics</i> , 2020, 4, 26-39.	5.2	30
39	Engineered Relaxin as theranostic nanomedicine to diagnose and ameliorate liver cirrhosis. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019, 17, 106-118.	3.3	28
40	Targeted Recombinant Fusion Proteins of IFN $\gamma$ and Mimetic IFN $\gamma$ with PDGF $\beta$ R Bicyclic Peptide Inhibits Liver Fibrogenesis In Vivo. <i>PLoS ONE</i> , 2014, 9, e89878.	2.5	23
41	Genome-wide association mapping reveals key genomic regions for physiological and yield-related traits under salinity stress in wheat ( <i>Triticum aestivum</i> L.). <i>Genomics</i> , 2021, 113, 3198-3215.	2.9	22
42	Albumin-Binding and Tumor Vasculature Determine the Antitumor Effect of 15-Deoxy- $\Delta^{12,14}$ -Prostaglandin-J <sub>2</sub> in vivo. <i>Neoplasia</i> , 2009, 11, 1348-1358.	5.3	20
43	Pharmacological inhibition of STAT3 pathway ameliorates acute liver injury in vivo via inactivation of inflammatory macrophages and hepatic stellate cells. <i>FASEB BioAdvances</i> , 2020, 2, 77-89.	2.4	20
44	Genetic Dissection of Seedling Root System Architectural Traits in a Diverse Panel of Hexaploid Wheat through Multi-Locus Genome-Wide Association Mapping for Improving Drought Tolerance. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7188.	4.1	20
45	High Mobility Group Box 1 Release by Cholangiocytes Governs Biliary Atresia Pathogenesis and Correlates With Increases in Afflicted Infants. <i>Hepatology</i> , 2021, 74, 864-878.	7.3	20
46	Interferon gamma peptidomimetic targeted to interstitial myofibroblasts attenuates renal fibrosis after unilateral ureteral obstruction in mice. <i>Oncotarget</i> , 2016, 7, 54240-54252.	1.8	19
47	Lyophilization stabilizes clinical $\text{\textcircled{e}}$ stage core $\text{\textcircled{e}}$ crosslinked polymeric micelles to overcome cold chain supply challenges. <i>Biotechnology Journal</i> , 2021, 16, e2000212.	3.5	17
48	TG101348, a selective JAK2 antagonist, ameliorates hepatic fibrogenesis <i>in vivo</i> . <i>FASEB Journal</i> , 2019, 33, 9466-9475.	0.5	16
49	cGAS-STING effectively restricts murine norovirus infection but antagonizes the antiviral action of N-terminus of RIG-I in mouse macrophages. <i>Gut Microbes</i> , 2021, 13, 1959839.	9.8	16
50	Role of spleen tyrosine kinase in liver diseases. <i>World Journal of Gastroenterology</i> , 2020, 26, 1005-1019.	3.3	16
51	Growth and Antioxidant Responses in Iron-Biofortified Lentil under Cadmium Stress. <i>Toxics</i> , 2021, 9, 182.	3.7	13
52	Zero Tillage, Residue Retention and System-Intensification with Legumes for Enhanced Pearl Millet Productivity and Mineral Biofortification. <i>Sustainability</i> , 2022, 14, 543.	3.2	13
53	Landraces-potential treasure for sustainable wheat improvement. <i>Genetic Resources and Crop Evolution</i> , 2022, 69, 499-523.	1.6	13
54	No-Tillage with Residue Retention and Foliar Sulphur Nutrition Enhances Productivity, Mineral Biofortification and Crude Protein in Rainfed Pearl Millet under Typic Haplustepts: Elucidating the Responses Imposed on an Eight-Year Long-Term Experiment. <i>Plants</i> , 2022, 11, 943.	3.5	13

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55	Rotavirus Reassortant-Induced Murine Model of Liver Fibrosis Parallels Human Biliary Atresia. <i>Hepatology</i> , 2020, 71, 1316-1330.	7.3	12
56	Genetic Dissection of Phosphorous Uptake and Utilization Efficiency Traits Using GWAS in Mungbean. <i>Agronomy</i> , 2021, 11, 1401.	3.0	11
57	Tomographic Ultrasound and LED-Based Photoacoustic System for Preclinical Imaging. <i>Sensors</i> , 2020, 20, 2793.	3.8	9
58	Apoptosis-inducing peptide loaded in PLGA nanoparticles induces anti-tumor effects in vivo. <i>International Journal of Pharmaceutics</i> , 2020, 585, 119535.	5.2	9
59	Root Trait Variation in Lentil ( <i>Lens culinaris</i> Medikus) Germplasm under Drought Stress. <i>Plants</i> , 2021, 10, 2410.	3.5	8
60	Hepatitis C Virus Nonstructural 3/4A Protein Dampens Inflammation and Contributes to Slow Fibrosis Progression during Chronic Fibrosis In Vivo. <i>PLoS ONE</i> , 2015, 10, e0128466.	2.5	7
61	Genetic Variation for Traits Related to Phosphorus Use Efficiency in Lens Species at the Seedling Stage. <i>Plants</i> , 2021, 10, 2711.	3.5	7
62	Lentil Breeding. , 2022, , 1181-1236.		7
63	A type IV Autotaxin inhibitor ameliorates acute liver injury and nonalcoholic steatohepatitis. <i>EMBO Molecular Medicine</i> , 2022, 14, .	6.9	7
64	Lipoxygenases in chronic liver diseases: current insights and future perspectives. <i>Trends in Pharmacological Sciences</i> , 2022, 43, 188-205.	8.7	6
65	Antioxidative responses to short term waterlogging stress in pigeon pea. <i>Indian Journal of Plant Physiology</i> , 2015, 20, 182-185.	0.8	5
66	Prospects and progress of DNA vaccines for treating hepatitis B. <i>Expert Review of Vaccines</i> , 2016, 15, 629-640.	4.4	5
67	One-Step Fabrication of Porous Membrane-Based Scaffolds by Air-Water Interfacial Phase Separation: Opportunities for Engineered Tissues. <i>Membranes</i> , 2022, 12, 453.	3.0	5
68	Effect of waterlogging on root anatomy and nitrogen distribution in pigeonpea ( <i>Cajanus cajan</i> (L.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.8	4
69	Genomic analysis and finding of candidate genes for <i>Nilaparvata lugens</i> (stål) resistance in Indian pigmented and other indigenous rice genotypes. <i>Crop Protection</i> , 2022, 156, 105959.	2.1	4
70	Battling IL-17, the troublemaker in alcohol-induced hepatocellular carcinoma. <i>Journal of Hepatology</i> , 2020, 72, 809-812.	3.7	3
71	Cell Wall Invertase and Sucrose Synthase Regulate Sugar Metabolism During Seed Development in Isabgol ( <i>Plantago ovata</i> Forsk.). <i>Proceedings of the National Academy of Sciences India Section B - Biological Sciences</i> , 2018, 88, 73-78.	1.0	2
72	Editorial: Macrophages in Liver Disease. <i>Frontiers in Immunology</i> , 2020, 11, 1754.	4.8	1

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73	Src kinase as a potential therapeutic target in non-alcoholic and alcoholic steatohepatitis. <i>Clinical and Translational Discovery</i> , 2022, 2, .	0.5	1
74	Cancer Modeling: 3D-Bioprinted Mini-Brain: A Glioblastoma Model to Study Cellular Interactions and Therapeutics ( <i>Adv. Mater.</i> 14/2019). <i>Advanced Materials</i> , 2019, 31, 1970101.	21.0	0
75	Therapeutic Targeting of Hepatic Macrophages. <i>Current Tissue Microenvironment Reports</i> , 2020, 1, 113-120.	3.2	0
76	The Autotaxin - Lysophosphatidic Acid Axis as a Novel Therapeutic Target for Liver Fibrosis. <i>OBM Hepatology and Gastroenterology</i> , 2019, 3, 1-1.	0.0	0