

# Janendra K Batra

## List of Publications by Year in descending order

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77  
papers

1,598  
citations

279798

23  
h-index

330143

37  
g-index

78  
all docs

78  
docs citations

78  
times ranked

1229  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recombinant anti-erbB2 immunotoxins containing Pseudomonas exotoxin.. Proceedings of the National Academy of Sciences of the United States of America, 1992, 89, 5867-5871.	7.1	149
2	A rapid method of cloning functional variable-region antibody genes in Escherichia coli as single-chain immunotoxins.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 1066-1070.	7.1	137
3	Antitumor activity in mice of an immunotoxin made with anti-transferrin receptor and a recombinant form of Pseudomonas exotoxin.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 8545-8549.	7.1	75
4	Single-chain immunotoxin fusions between anti-tac and Pseudomonas exotoxin: Relative importance of the two toxin disulfide bonds. Bioconjugate Chemistry, 1993, 4, 112-120.	3.6	69
5	Anti-tumor activities of immunotoxins made of monoclonal antibody B3 and various forms of Pseudomonas exotoxin.. Proceedings of the National Academy of Sciences of the United States of America, 1991, 88, 3358-3362.	7.1	65
6	The Cytotoxic Activity of Ribosome-inactivating Protein Saporin-6 Is Attributed to Its rRNA N-Glycosidase and Internucleosomal DNA Fragmentation Activities. Journal of Biological Chemistry, 2003, 278, 4813-4820.	3.4	64
7	Antimicrobial activity of human eosinophil granule proteins: involvement in host defence against pathogens. Critical Reviews in Microbiology, 2012, 38, 168-181.	6.1	59
8	Interaction of Human Pancreatic Ribonuclease with Human Ribonuclease Inhibitor. Journal of Biological Chemistry, 2001, 276, 24978-24984.	3.4	54
9	Ribosome inactivating protein saporin induces apoptosis through mitochondrial cascade, independent of translation inhibition. International Journal of Biochemistry and Cell Biology, 2008, 40, 2880-2888.	2.8	49
10	Inclusion of a furin-sensitive spacer enhances the cytotoxicity of ribotoxin restrictocin containing recombinant single-chain immunotoxins. Biochemical Journal, 2000, 345, 247-254.	3.7	40
11	<i>Mycobacterium tuberculosis</i> ClpC1. FEBS Journal, 2008, 275, 6149-6158.	4.7	38
12	Role of unique basic residues in cytotoxic, antibacterial and antiparasitic activities of human eosinophil cationic protein. Biological Chemistry, 2011, 392, 337-46.	2.5	37
13	Balsamin, a novel ribosome-inactivating protein from the seeds of Balsam apple Momordica balsamina. Amino Acids, 2012, 43, 973-981.	2.7	31
14	In vitro and in silico studies of urea-induced denaturation of yeast iso-1-cytochrome c and its deletants at pH 6.0 and 25 Å°C. Journal of Biomolecular Structure and Dynamics, 2015, 33, 1493-1502.	3.5	31
15	Methylenedioxy-benzopyran analogs of podophyllotoxin, a new synthetic class of antimetabolic agents that inhibit tubulin polymerization. Biochemical Pharmacology, 1988, 37, 2595-2602.	4.4	30
16	Construction, expression and characterization of chimaeric toxins containing the ribonucleolytic toxin restrictocin: intracellular mechanism of action. Biochemical Journal, 1997, 324, 815-822.	3.7	27
17	Effect of sequential deletion of extra N-terminal residues on the structure and stability of yeast iso-1-cytochrome-c. Journal of Biomolecular Structure and Dynamics, 2014, 32, 2005-2016.	3.5	26
18	Effects of pH on tubulin-nucleotide interactions. Archives of Biochemistry and Biophysics, 1986, 245, 316-330.	3.0	25

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19	Overproduction of fungal ribotoxin Î±-sarcin in Escherichia coli: generation of an active immunotoxin. Gene, 1997, 190, 31-35.	2.2	25
20	ClpB is an essential stress regulator of Mycobacterium tuberculosis and endows survival advantage to dormant bacilli. International Journal of Medical Microbiology, 2020, 310, 151402.	3.6	25
21	Cytotoxicity of ribosome-inactivating protein saporin is not mediated through Î±2 -macroglobulin receptor. FEBS Letters, 2003, 541, 16-20.	2.8	24
22	Human eosinophil-derived neurotoxin: involvement of a putative non-catalytic phosphate-binding subsite in its catalysis. Molecular and Cellular Biochemistry, 2007, 303, 175-181.	3.1	24
23	Characterization of pre-molten globule state of yeast iso-1-cytochrome c and its deletants at pH 6.0 and 25 Å°C. International Journal of Biological Macromolecules, 2015, 72, 1406-1418.	7.5	24
24	TGFÎ±-anti-Tac(Fv)-PE40: A bifunctional toxin cytotoxic for cells with EGF or IL2 receptors. Biochemical and Biophysical Research Communications, 1990, 171, 1-6.	2.1	23
25	Generation of Active Immunotoxins Containing Recombinant Restrictocin. Biochemical and Biophysical Research Communications, 1996, 222, 58-63.	2.1	23
26	Mouse eosinophil associated ribonucleases: Mechanism of cytotoxic, antibacterial and antiparasitic activities. International Journal of Biological Macromolecules, 2017, 94, 445-450.	7.5	23
27	Direct incorporation of guanosine 5-diphosphate into microtubules without guanosine 5'-triphosphate hydrolysis. Biochemistry, 1986, 25, 7054-7062.	2.5	21
28	Expression of ribonucleolytic toxin restrictocin in Escherichia coli: purification and characterization. FEBS Letters, 1996, 392, 259-262.	2.8	20
29	Antitumor activity of a thioether-linked immunotoxin: OVB3-PE. Bioconjugate Chemistry, 1990, 1, 264-268.	3.6	19
30	Inclusion of a furin-sensitive spacer enhances the cytotoxicity of ribotoxin restrictocin containing recombinant single-chain immunotoxins. Biochemical Journal, 2000, 345, 247.	3.7	18
31	An insertion in loop L7 of human eosinophilâ€derived neurotoxin is crucial for its antiviral activity. Journal of Cellular Biochemistry, 2012, 113, 3104-3112.	2.6	18
32	Human Pancreatic Ribonuclease. Deletion of the Carboxyl-Terminal EDST Extension Enhances Ribonuclease Activity and Thermostability. FEBS Journal, 1997, 245, 465-469.	0.2	16
33	The differential catalytic activity of ribosome-inactivating proteins saporin 5 and 6 is due to a single substitution at position 162. Biochemical Journal, 2006, 400, 99-104.	3.7	16
34	Functional Role of Glutamine 28 and Arginine 39 in Double Stranded RNA Cleavage by Human Pancreatic Ribonuclease. PLoS ONE, 2011, 6, e17159.	2.5	16
35	Role of D<sup>na</sup>K</sup> in H<sup>sp</sup>R<sup>â€</sup>HAIR</sup> interaction of Mycobacterium tuberculosis</i>. IUBMB Life, 2015, 67, 816-827.	3.4	14
36	Role of Individual Cysteine Residues and Disulfide Bonds in the Structure and Function of Aspergillus Ribonucleolytic Toxin Restrictocinâ€. Biochemistry, 1999, 38, 10052-10058.	2.5	13

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37	A Single Amino Acid Substitution in Ribonucleolytic Toxin Restrictocin Abolishes Its Specific Substrate Recognition Activity. <i>Biochemistry</i> , 1997, 36, 13693-13699.	2.5	12
38	Denatured states of yeast cytochrome <i>c</i> induced by heat and guanidinium chloride are structurally and thermodynamically different. <i>Journal of Biomolecular Structure and Dynamics</i> , 2017, 35, 1420-1435.	3.5	12
39	Cytotoxic activity of ribonucleolytic toxin restrictocin-based chimeric toxins targeted to epidermal growth factor receptor. <i>FEBS Letters</i> , 1997, 407, 275-279.	2.8	11
40	Mechanism of Specific Target Recognition and RNA Hydrolysis by Ribonucleolytic Toxin Restrictocin. <i>Biochemistry</i> , 2001, 40, 9115-9124.	2.5	11
41	The amino-terminal domain of <i>Mycobacterium tuberculosis</i> ClpB protein plays a crucial role in its substrate disaggregation activity. <i>FEBS Open Bio</i> , 2018, 8, 1669-1690.	2.3	11
42	Mechanism of Anti-HIV Activity of Ribosome Inactivating Protein, Saporin. <i>Protein and Peptide Letters</i> , 2015, 22, 497-503.	0.9	11
43	Insertion of constant region domains of human IgG, into CD4-PE40 increases its plasma half-life. <i>Molecular Immunology</i> , 1993, 30, 379-386.	2.2	10
44	Drug metabolism in experimental tuberculosis: I. Changes in hepatic and pulmonary monooxygenase activities due to infection. <i>European Journal of Drug Metabolism and Pharmacokinetics</i> , 1987, 12, 109-114.	1.6	9
45	1-Methyl-4-phenyl-1,2,3,6-tetrahydropyridine inhibits proton motive force in energized liver mitochondria. <i>Archives of Biochemistry and Biophysics</i> , 1989, 271, 217-222.	3.0	9
46	Role of catalytic and non-catalytic subsite residues in ribonuclease activity of human eosinophil-derived neurotoxin. <i>Biological Chemistry</i> , 2009, 390, 225-234.	2.5	9
47	A ribonuclease inhibitor resistant dimer of human pancreatic ribonuclease displays specific antitumor activity. <i>International Journal of Biological Macromolecules</i> , 2018, 107, 1965-1970.	7.5	9
48	Nucleotide interconversions in microtubule protein preparations, a significant complication for accurate measurement of GTP hydrolysis in the presence of adenosine 5'-( $\beta$ , $\gamma$ -imidotriphosphate). <i>Biochemistry</i> , 1987, 26, 5925-5931.	2.5	8
49	Role of unique basic residues of human pancreatic ribonuclease in its catalysis and structural stability. <i>Biochemical and Biophysical Research Communications</i> , 2007, 360, 809-814.	2.1	8
50	Cloning, expression and efficient refolding of carbohydrate-peptide mimicry recognizing single chain antibody 2D10. <i>Protein Expression and Purification</i> , 2010, 72, 162-168.	1.3	8
51	Ribotoxin restrictocin manifests anti-HIV-1 activity through its specific ribonuclease activity. <i>International Journal of Biological Macromolecules</i> , 2015, 76, 58-62.	7.5	8
52	Targeting c-kit receptor in neuroblastomas and colorectal cancers using stem cell factor (SCF)-based recombinant bacterial toxins. <i>Applied Microbiology and Biotechnology</i> , 2016, 100, 263-277.	3.6	8
53	Morpholino derivatives of benzyl-benzodioxole, a study of structural requirements for drug interactions at the colchicine/podophyllotoxin binding site of tubulin. <i>Biochemical Pharmacology</i> , 1986, 35, 4013-4018.	4.4	7
54	Glycine 38 is crucial for the ribonucleolytic activity of human pancreatic ribonuclease on double-stranded RNA. <i>Biochemical and Biophysical Research Communications</i> , 2002, 297, 390-395.	2.1	7

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55	Functional and Structural Characterization of Helicobacter pylori ClpX: A Molecular Chaperone of Hsp100 Family. Protein and Peptide Letters, 2012, 19, 1263-1271.	0.9	7
56	Mechanism of HrcA function in heat shock regulation in Mycobacterium tuberculosis. Biochimie, 2020, 168, 285-296.	2.6	7
57	Ribosome Inactivating Proteins and Apoptosis. Plant Cell Monographs, 2010, , 167-189.	0.4	6
58	Nicotinamide administration alters the activities of hepatic microsomal mixed function oxidases. Experientia, 1980, 36, 1311-1311.	1.2	5
59	In vitro and in vivo activity of a recombinant toxin, OLX-209, which targets the erbB-2 oncoprotein. Advances in Enzyme Regulation, 1994, 34, 119-128.	2.6	5
60	Localization of the catalytic activity in restrictocin molecule by deletion mutagenesis. FEBS Journal, 2000, 267, 1777-1783.	0.2	4
61	The C-Terminus of ClpC1 of Mycobacterium tuberculosis Is Crucial for Its Oligomerization and Function. PLoS ONE, 2012, 7, e51261.	2.5	4
62	Changes in hepatic polyamine levels during acute and chronic administration of aflatoxin B1 to rats. Toxicol, 1980, 18, 209-213.	1.6	3
63	Role of cis prolines 112 and 126 in the functional activity of ribonucleolytic toxin restrictocin. Biochemical and Biophysical Research Communications, 2002, 295, 812-817.	2.1	3
64	Role of aspartic acid 121 in human pancreatic ribonuclease catalysis. Molecular and Cellular Biochemistry, 2005, 275, 95-101.	3.1	3
65	Involvement of Loops L2 and L4 of Ribonucleolytic Toxin Restrictocin in Its Functional Activity. Protein and Peptide Letters, 2007, 14, 125-129.	0.9	3
66	Insight into the role of histidine in RNR motif of protein component of RNase P of Mycobacterium tuberculosis in catalysis. IUBMB Life, 2016, 68, 178-189.	3.4	3
67	Insight into the functional role of unique determinants in RNA component of RNase P of Mycobacterium tuberculosis. International Journal of Biological Macromolecules, 2018, 119, 937-944.	7.5	2
68	New Antineoplastic Agents with Antitubulin Activity. Annals of the New York Academy of Sciences, 1986, 466, 785-787.	3.8	1
69	Benzo(a)pyrene hydroxylase activity in human bronchial mucus. European Journal of Drug Metabolism and Pharmacokinetics, 1986, 11, 33-37.	1.6	1
70	Fulminant hepatic failure due to hepatitis E virus. Journal of Hepatology, 1994, 21, 1156-1157.	3.7	1
71	Functional role of putative critical residues in Mycobacterium tuberculosis RNase P protein. International Journal of Biochemistry and Cell Biology, 2016, 78, 141-148.	2.8	1
72	Influence of Conformation of M. tuberculosis RNase P Protein Subunit on Its Function. PLoS ONE, 2016, 11, e0153798.	2.5	1

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73	Antimicrobial Activity of Human Eosinophil Granule Proteins. <i>Methods in Molecular Biology</i> , 2014, 1178, 267-281.	0.9	1
74	Role of HrcA in stress management in <i>Mycobacterium tuberculosis</i> . <i>Journal of Applied Microbiology</i> , 2022, 132, 3315-3326.	3.1	1
75	Effect of cord factor, a toxic glycolipid from <i>mycobacterium tuberculosis</i> , on mouse liver drug metabolizing enzymes. <i>Toxicol</i> , 1987, 25, 345-349.	1.6	0
76	Antimicrobial Activity of Human Eosinophil Granule Proteins. <i>Methods in Molecular Biology</i> , 2021, 2241, 257-274.	0.9	0
77	Heat Shock Proteins in the Pathogenesis of <i>Mycobacterium tuberculosis</i> . , 2019, , 221-240.		0