

# Abhay H Pande

## List of Publications by Year in descending order

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40  
papers

630  
citations

687363

13  
h-index

610901

24  
g-index

40  
all docs

40  
docs citations

40  
times ranked

665  
citing authors

#	ARTICLE	IF	CITATIONS
1	Membrane Fluidity Is a Key Modulator of Membrane Binding, Insertion, and Activity of 5-Lipoxygenase. <i>Biophysical Journal</i> , 2005, 88, 4084-4094.	0.5	94
2	Conformational Instability of the Cholera Toxin A1 Polypeptide. <i>Journal of Molecular Biology</i> , 2007, 374, 1114-1128.	4.2	66
3	The N-terminal $\alpha$ -Helix of Pancreatic Phospholipase A2 Determines Productive-mode Orientation of the Enzyme at the Membrane Surface. <i>Journal of Molecular Biology</i> , 2004, 344, 71-89.	4.2	46
4	Modulation of Human 5-Lipoxygenase Activity by Membrane Lipids. <i>Biochemistry</i> , 2004, 43, 14653-14666.	2.5	43
5	The Pertussis Toxin S1 Subunit Is a Thermally Unstable Protein Susceptible to Degradation by the 20S Proteasome. <i>Biochemistry</i> , 2006, 45, 13734-13740.	2.5	39
6	Isoform-Specific Membrane Insertion of Secretory Phospholipase A2 and Functional Implications. <i>Biochemistry</i> , 2006, 45, 12436-12447.	2.5	33
7	Oxidatively modified fatty acyl chain determines physicochemical properties of aggregates of oxidized phospholipids. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 442-452.	2.6	28
8	Organophosphate-Hydrolyzing Enzymes as First-Line of Defence Against Nerve Agent-Poisoning: Perspectives and the Road Ahead. <i>Protein Journal</i> , 2016, 35, 424-439.	1.6	18
9	Expression, purification and immobilization of recombinant AiiA enzyme onto magnetic nanoparticles. <i>Protein Expression and Purification</i> , 2015, 113, 56-62.	1.3	17
10	Protein Chimerization: A New Frontier for Engineering Protein Therapeutics with Improved Pharmacokinetics. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 370, 703-714.	2.5	17
11	Toward Understanding the Catalytic Mechanism of Human Paraoxonase 1: Site-Specific Mutagenesis at Position 192. <i>PLoS ONE</i> , 2016, 11, e0147999.	2.5	17
12	Membrane lipid composition differentially modulates the function of human plasma platelet activating factor-acetylhydrolase. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2011, 1811, 46-56.	2.4	14
13	Expression and purification of biologically active recombinant human paraoxonase 1 from inclusion bodies of <i>Escherichia coli</i> . <i>Protein Expression and Purification</i> , 2015, 115, 95-101.	1.3	14
14	Oxidized phospholipid content destabilizes the structure of reconstituted high density lipoprotein particles and changes their function. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2012, 1821, 1200-1210.	2.4	13
15	Characterization of human paraoxonase 1 variants suggest that His residues at 115 and 134 positions are not always needed for the lactonase/arylesterase activities of the enzyme. <i>Protein Science</i> , 2013, 22, 1799-1807.	7.6	12
16	Membrane surface charge modulates lipoprotein complex forming capability of peptides derived from the C-terminal domain of apolipoprotein E. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2009, 1788, 1366-1376.	2.6	11
17	Properties of apolipoprotein E derived peptide modulate their lipid-binding capacity and influence their anti-inflammatory function. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2014, 1841, 620-629.	2.4	10
18	Refolded Recombinant Human Paraoxonase 1 Variant Exhibits Prophylactic Activity Against Organophosphate Poisoning. <i>Applied Biochemistry and Biotechnology</i> , 2016, 180, 165-176.	2.9	10

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19	Preferential binding of apolipoprotein E derived peptides with oxidized phospholipid. <i>Biochemical and Biophysical Research Communications</i> , 2009, 380, 71-75.	2.1	9
20	Physicochemical properties of bacterial pro-inflammatory lipids influence their interaction with apolipoprotein-derived peptides. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 853-862.	2.4	9
21	Human Paraoxonase 1 as a Pharmacologic Agent: Limitations and Perspectives. <i>Scientific World Journal</i> , The, 2014, 2014, 1-6.	2.1	9
22	Stabilization Studies on Bacterially Produced Human Paraoxonase 1 for Improving Its Shelf Life. <i>Applied Biochemistry and Biotechnology</i> , 2014, 172, 3798-3809.	2.9	9
23	Interplay between amino acid residues at positions 192 and 115 in modulating hydrolytic activities of human paraoxonase 1. <i>Biochimie</i> , 2014, 105, 202-210.	2.6	9
24	Carbohydrate induced modulation of cell membrane VII. Binding of exogenous lectin increases osmofragility of erythrocytes. <i>FEBS Letters</i> , 1998, 427, 21-24.	2.8	8
25	Oxidized-phospholipids in reconstituted high density lipoprotein particles affect structure and function of recombinant paraoxonase 1. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2013, 1831, 1714-1720.	2.4	8
26	Therapeutic potential of ApoE-mimetic peptides in CNS disorders: Current perspective. <i>Experimental Neurology</i> , 2022, 353, 114051.	4.1	8
27	Improving storage stability of recombinant organophosphorus hydrolase. <i>Protein Expression and Purification</i> , 2015, 111, 28-35.	1.3	7
28	Optimization of medium composition to increase the expression of recombinant human interferon- $\beta$ using the Plackett-Burman and central composite design in <i>E. coli</i> SE1. <i>3 Biotech</i> , 2021, 11, 226.	2.2	7
29	Closely related oxidized phospholipids differentially modulate the physicochemical properties of lipid particles. <i>Chemistry and Physics of Lipids</i> , 2011, 164, 54-61.	3.2	6
30	Towards Understanding the Catalytic Mechanism of Human Paraoxonase 1: Experimental and In Silico Mutagenesis Studies. <i>Applied Biochemistry and Biotechnology</i> , 2017, 182, 1642-1662.	2.9	6
31	Antibiotic-free expression system for the production of human interferon-beta protein. <i>3 Biotech</i> , 2018, 8, 36.	2.2	6
32	Carbohydrate induced modulation of cell membrane. VI. Binding of exogenous lectin induces susceptibility of erythrocytes to free radical damage: a spin label study. <i>FEBS Letters</i> , 1997, 406, 255-258.	2.8	5
33	Improving Properties of Recombinant SsoPox by Site-Specific Pegylation. <i>Protein and Peptide Letters</i> , 2015, 22, 1098-1103.	0.9	4
34	ApoE-Derived Peptides Attenuated Diabetes-Induced Oxidative Stress and Inflammation. <i>Protein and Peptide Letters</i> , 2020, 27, 193-200.	0.9	4
35	HDL, ApoA-I and ApoE-Mimetic Peptides: Potential Broad Spectrum Agent for Clinical Use?. <i>International Journal of Peptide Research and Therapeutics</i> , 2022, 28, 1.	1.9	4
36	The Chemical Nature of the Polar Functional Group of Oxidized Acyl Chain Uniquely Modifies the Physicochemical Properties of Oxidized Phospholipid-Containing Lipid Particles. <i>Journal of Membrane Biology</i> , 2013, 246, 443-452.	2.1	3

#	ARTICLE	IF	CITATIONS
37	Differential interaction of peptides derived from C-terminal domain of human apolipoprotein E with platelet activating factor analogs. <i>Biochimie</i> , 2013, 95, 1196-1207.	2.6	2
38	Apolipoprotein E Derived Peptides Inhibit the Pro-Inflammatory Effect of Lysophosphatidylcholine. <i>Protein and Peptide Letters</i> , 2013, 21, 101-107.	0.9	2
39	Is Human Paraoxonase 1 the Saviour Against the Persistent Threat of Organophosphorus Nerve Agents?. <i>Protein and Peptide Letters</i> , 2019, 26, 471-478.	0.9	2
40	Peptide derived from the lipid binding domain of Group IB human pancreatic phospholipase A2 possesses antibacterial activity. <i>Biochimie</i> , 2009, 91, 1387-1393.	2.6	1