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## Publications:

Details	Impact factor
25] <b>Pande AH</b> , Tillu VA. (2011) Membrane lipid composition differentially modulates the function of human plasma platelet activating factor-acetylhydrolase. <b>Biochim Biophys Acta</b> . 1811, 46-56.	5.08
24] Kar S, Tillu, VA, Meena SC, <b>Pande AH</b> . (2011) Closely related oxidized phospholipids differentially modulate the physicochemical properties of lipid particles. <b>Chem. Phys.Lipids</b> 164, 54-61	2.86
23] Taylor M, Banerjee T, Navarro-Garcia F, Huerta J, Massey S, Burlingame M, <b>Pande AH</b> , Tatulian SA, Teter K. (2011) A therapeutic chemical chaperone inhibits cholera intoxication and unfolding/translocation of the cholera toxin A1 subunit. <i>PLoS One</i> . 2011 Apr 19;6(4):e18825.	4.41
22] <b>Pande AH</b> , Kar S, Tripathy RK. (2010) Oxidatively modified fatty acyl chain determines physicochemical properties of aggregates of oxidized phospholipids. <b>Biochim Biophys Acta</b> . 1798, 442-452.	4.00
21] Banerjee T, <b>Pande A</b> , Jobling MG, Taylor MP, Massey S, Holmes RK, Tatulian SA, Teter K. (2010) Contribution of subdomain structure to the thermal stability of the cholera toxin A1 subunit. <b>Biochemistry</b> . 49, 8839-8846.	3.20
20] <b>Pande AH</b> , Tripathy RK, Nankar SA. (2009) Membrane surface charge modulates lipoprotein complex forming capability of peptides derived from the C-terminal domain of apolipoprotein E. <b>Biochim Biophys Acta</b> . 1788, 1366-1376.	4.18
19] <b>Pande AH</b> , Tripathy RK. (2009) Preferential binding of apolipoprotein E derived peptides with oxidized phospholipid. <b>Biochem Biophys Res Commun</b> . 380, 71-75.	2.62
18] Limbachiya MS, <b>Pande AH</b> . (2009) Peptide derived from the lipid binding domain of Group IB human pancreatic phospholipase A(2) possesses antibacterial activity. <b>Biochimie</b> . 91,1387-93.	3.00
17] Massey S, Banerjee T, <b>Pande AH</b> , Taylor M, Tatulian SA, Teter K. (2009) Stabilization of the tertiary structure of the cholera toxin A1 subunit inhibits toxin dislocation and cellular intoxication. <b>J Mol Biol</b> . 393, 1083-1096.	4.14

16] <b>Pande AH</b> , Scaglione P, Taylor M, Nemec KN, Tuthill S, Moe D, Holmes RK, Tatulian SA, Teter K. (2007) Conformational instability of the cholera toxin A1 polypeptide. <b>J Mol Biol.</b> 374, 1114-1128.	4.3
15] <b>Pande AH</b> , Moe D, Jamnadas M, Tatulian SA, Teter K. (2006) The pertussis toxin S1 subunit is a thermally unstable protein susceptible to degradation by the 20S proteasome. <b>Biochemistry.</b> 45, 13734-13740.	3.2
14] <b>Pande AH</b> , Qin S, Nemec KN, He X, Tatulian SA. (2006) Isoform-specific membrane insertion of secretory phospholipase A2 and functional implications. <b>Biochemistry.</b> 45, 12436-12447.	3.2
13] Gupta RK, <b>Pande AH</b> , Gulla KC, Gabius HJ, Hajela K. (2006) Carbohydrate-induced modulation of cell membrane. VIII. Agglutination with mammalian lectin galectin-1 increases osmofragility and membrane fluidity of trypsinized erythrocytes. <b>FEBS Lett.</b> 580, 1691-1695.	3.3
12] Nemec KN, <b>Pande AH</b> , Qin S, Bieber Urbauer RJ, Tan S, Moe D, Tatulian SA. (2006) Structural and functional effects of tryptophans inserted into the membrane-binding and substrate-binding sites of human group IIA phospholipase A2. <b>Biochemistry.</b> 45, 12448-12460.	3.2
11] <b>Pande AH</b> , Qin S, Tatulian SA. (2005) Membrane fluidity is a key modulator of membrane binding, insertion, and activity of 5-lipoxygenase. <b>Biophys J.</b> 88, 4084-4094.	4.6
10] Qin S, <b>Pande AH</b> , Nemec KN, He X, Tatulian SA. (2005) Evidence for the regulatory role of the N-terminal helix of secretory phospholipase A(2) from studies on native and chimeric proteins. <b>J Biol Chem.</b> 280, 36773-36783	5.8
9] Tatulian SA, Qin S, <b>Pande AH</b> , He X (2005) Positioning membrane proteins by novel protein engineering and biophysical approaches. <b>J Mol Biol.</b> 351, 939-947.	4.3
8] <b>Pande AH</b> , Moe D, Nemec KN, Qin S, Tan S Tatulian SA. (2004) Regulation of human 5- lipoxygenase activity by membrane lipids. <b>Biochemistry</b> 43(46):14653-14666.	3.2
7] Qin S, <b>Pande AH</b> , Nemec KN, Tatulian SA (2004) The N-terminal $\alpha$ -helix of pancreatic phospholipase A2 determines productive-mode orientation of the enzyme at the membrane surface. <b>J. Mol. Biol.</b> 344, 71–89.	4.3
6] <b>Pande AH</b> , Gupta RK, Sumati and Hajela K. (2003) Oxidation of goat hepatic galectin-1 induces changes in secondary structure. <b>Protein and Peptide Letters</b> 10, 265-275.	1.7
5] Gupta RK, <b>Pande AH</b> , Sumati and Hajela K. (2003) ESR studies on Fc-receptor mediated changes in lymphocyte membrane fluidity. <b>Ind. J. Biochem. Biophys.</b> 40, 59-61.	0.6
4] Dhar J <sup>α</sup> , <b>Pande AH</b> <sup>α</sup> , Sundram V, Nanda JS, Mande SC Sahni G. (2002) Involvement of a nine-residue loop of streptokinase in the generation of macromolecular substratespecificity by the activator complex through interaction with substrate kringle domain. <b>J. Biol. Chem.</b> 277, 13257-13267.	5.8

3] Hajela N, <b>Pande AH</b> , Sharma, S Rao DN. Hajela K. (1999) Studies on a doubleheaded protease inhibitor from Phaseolus mungo. <b>J. Plant Biochemistry &amp; Biotechnology</b> 8, 57-60.	0.3
2] <b>Pande AH</b> , Sumati,, Hajela N, Hajela K. (1998) Carbohydrate induced modulation of cell membrane. VII. Binding of exogenous lectin increase osmofragility of erythrocytes. <b>FEBS Lett.</b> 427, 21-24.	3.3
1] Hajela K, <b>Pande AH</b> and Sumati. (1997) Carbohydrate induced modulation of cell membrane. VI. Binding of exogenous lectin induces susceptibility of erythrocytes to free radical damage: A spin label study. <b>FEBS Lett.</b> 406, 255-258	3.3

### Presentation (poster):

1) STABILIZATION STUDIES OF RECOMBINANT HUMAN PARAOXONASE-1. Priyanka Bajaj, Unnati V. Suvarnakar and **Abhay H. Pande**. Presented at 79<sup>th</sup> Annual Meeting of SBC (I) held at I.I.Sc. Bangalore, India. Dec 13-15, 2010.

2) OXIDIZED PHOSPHOLIPID BINDING PROPERTIES OF SYNTHETIC PEPTIDES DERIVED FROM HUMAN APOLIPOPROTEIN E. Sunil A. Nankar, and **Abhay H. Pande**. Presented at 79<sup>th</sup> Annual Meeting of SBC (I) held at I.I.Sc. Bangalore, India. Dec 13-15, 2010.

3) INTERACTION OF PEPTIDES DERIVED FROM THE C-TERMINAL DOMAIN OF HUMAN APOLIPOPROTEIN E WITH PRO-INFLAMMATORY MEDIATORS. Sunil A. Nankar, R. Sravanthi and **Abhay H. Pande**, Presented at 79<sup>th</sup> Annual Meeting of SBC (I) held at I.I.Sc. Bangalore, India. Dec 13-15, 2010.

4) DIFFERENTIAL EFFECTS OF TWO TRUNCATED OXIDIZED PHOSPHOLIPIDS ON THE PROPERTIES OF LIPID PARTICLES. Subhabrata Kar, Mitul A. Patel, Rajan K Tripathy, Shiv C Meena and **Abhay H Pande** Presented at 79<sup>th</sup> Annual Meeting of SBC (I) held at I.I.Sc. Bangalore, India. Dec 13-15, 2010

5) ELECTROPHORETIC ANALYSIS OF OXIDIZED PHOSPHOLIPID CONTAINING LIPID PARTICLES. Priyanka Bajaj, Rajan K. Tripathy and **Abhay H. Pande** Presented at 79<sup>th</sup> Annual Meeting of SBC (I) held at I.I.Sc. Bangalore, India. Dec 13-15, 2010

6) CLOSELY RELATED OXIDIZED PHOSPHOLIPIDS DIFFERENTIALLY MODULATE THE PHYSICO-CHEMICAL PROPERTIES OF LIPID PARTICLES. Subhabrata Kar and **Abhay H. Pande** Presented at 79<sup>th</sup> Annual Meeting of SBC (I) held at I.I.Sc. Bangalore, India. Dec 13-15, 2010

7) LIPID BINDING PROPERTIES OF SYNTHETIC PEPTIDES CORRESPONDING TO AMPHIPATHIC HELICAL SEGMENTS OF C-TERMINAL DOMAIN OF HUMAN APOLIPOPROTEIN E. [Rajan K. Tripathy](#), Sunil A Nankar and [Abhay H. Pande](#). Presented at 77<sup>th</sup> Annual Meeting of SBC (I) held at IIT Madras, India. Dec 13-15, 2008

8) MEMBRANE FLUIDITY MODULATES INTERFACIAL ACTIVATION OF 5-LIPOXYGENASE. [Abhay H. Pande](#), Shan Qin, Suren A. Tatulian. Presented at 49th Biophysical Society Annual Meeting, Long Beach, California, Feb 12-16, 2005.

9) POSITIONING A PERIPHERAL PROTEIN AT THE MEMBRANE SURFACE. Shan Qin, [Abhay H. Pande](#) and Suren A. Tatulian. Presented at 48<sup>th</sup> Biophysical Society Annual Meeting held at Baltimore, Maryland, Feb 14-18, 2004.

10) MECHANISM OF LIPID-MEDIATED INTERFACIAL ACTIVATION OF HUMAN 5-LIPOXYGENASE. [Abhay H. Pande](#), David Moe, Kathleen Nemec, Shan Qin, Shuhua Tan, and Suren A. Tatulian. Presented at 48th Biophysical Society Annual Meeting held at Baltimore, Maryland, Feb 14-18, 2004.

11) PURIFICATION AND PROPERTIES OF GOAT HEPATIC GALECTIN. [Abhay H. Pande](#) and Krishnan Hajela. Presented at the 5th International Symposium on Biochemical Roles of Eukaryotic Cell Surface Macromolecules, held at I.I.Sc. Bangalore, India. Jan 7-8, 1999.

12) AGGLUTINATION OF ERYTHROCYTES BY EXOGENOUS LECTIN INDUCES SUSCEPTIBILITY OF ERYTHROCYTES TO FREE RADICAL DAMAGE. [Abhay H. Pande](#) and Krishnan Hajela. Presented at the International Symposium on Free Radicals in Medicine & Biology, held at R.N.T. Medical College, Udaipur, India. Sept 22-24, 1997.

13) BINDING OF METAL IONS TO A SOLUBLE B-GALACTOSIDE SPECIFIC HEPATIC LECTIN INDUCES CONFORMATION CHANGES. [Abhay H. Pande](#) and Krishnan Hajela, Presented at the 65<sup>th</sup> Annual Meeting of SBC (I) held at I.I.Sc. Bangalore, India. Nov. 20-23, 1996.