

ATIYA ABBASI

1) LIST OF PUBLICATIONS- (1998-2004)

a) BOOKS:

1. Protein Structure Function Relationship, Proceedings of the 7th International Symposium (eds. A. Abbasi and S. Abid Ali), BCC&T press, University of Karachi, 2003.
2. Protein Structure - Function, Proceedings of the 5th International Symposium (eds. Z. H. Zaidi, & A. Abbasi,) J. Chem. Soc. Pak. 1999.

b) CHAPTER IN BOOKS:

3. Structural basis of protein function: The role of residues in stability and activity - A. Abbasi, G. Lutfullah, R. Sattar and S. A. Ali Proceedings of the 7th International Symposium on Protein Structure Function Relationship (eds. A. Abbasi and S. Abid Ali) BCC&T press, University of Karachi, 2003, p.17.
4. Molecular basis of thermostability: Prediction of the three dimensional structure of subtilisin from a thermostable *Bacillus subtilis* strain RT5, M. Kamal, S. A. Ali and A. Abbasi, Proceedings of the 7th International Symposium on Protein Structure Function Relationship (eds. A. Abbasi and S. Abid Ali) BCC&T press, University of Karachi, 2003, p.145.
5. Role of proteins as biochemical markers for identification: New approaches for structural and functional taxonomy - S. A. Ali, M. Alam, M. Kamal, J. M. Alam and A. Abbasi, Proceedings of the 7th International Symposium on Protein Structure Function Relationship (eds. A. Abbasi and S. Abid Ali) BCC&T press, University of Karachi, 2003, p.179.
6. Purification and characterization of the recombinant human lens thiol transferase, F.Y. Qiao, N. Raghvachari, A. Abbasi, J. B. Smith and M.F. Lou, Proceedings of the annual meeting of Association for Research in Vision and Ophthalmology, 1998, p. 95
7. Identification of human lens γ -crystallins degradation products, J. B. Smith, A. Abbasi and D.L. Smith, Proceedings of the annual meeting of Association for Research in Vision and Ophthalmology, 1998, p. 183
8. Post-translational modifications of the lens crystallins associated with cataract, J. B. Smith, Z. Zhang, A. Abbasi, R.C. Barry and D.L. Smith, Proceedings of the Annual Meeting of the International Society for Eye Research, 1998

c) REFEREED JOURNAL ARTICLES

9. Molecular Mechanism of Enzyme Inhibition: Prediction of the three dimensional structure of the dimeric trypsin inhibitor from *Leucaena leucocephala* by homology modelling. Rabia Sattar, S. Abid Ali, Mustafa Kamal, Aftab Ahmed Khan and Atiya Abbasi *Biochem. Biophys. Res. Commun.* 314, 755-765, 2004.

10. Bioinformatics of Granzyme: Sequence comparison and structural studies on granzyme family by homology modelling R. Sattar, S. Abid Ali and A. Abbasi. *Biochem. Biophys. Res. Commun* 308, 726-735, 2003.
11. Molecular Mechanism of Apoptosis: Prediction of three dimensional structure of Caspase 6 and its interactions by homology modelling. Rabia Sattar, S. Abid Ali and Atiya Abbasi *Biochem. Biophys. Res. Commun* 308 (3), 497-504, 2003.
12. Molecular basis of high altitude respiration in birds: Primary Hemoglobin Structure Component from Tufted Duck (*Aythya fuligula*, Anseriformes), A. Abbasi and G. Lutfullah, *Biochem. Biophys. Res. Commun.* 291 (1), 176-184, 2002.
13. Production, purification and some properties of Bac201, a bacteriocin-like inhibitory substance produced by *Staphylococcus aureus* AB201. A. Iqbal; S.A. Ali; A. Abbasi; W. Voelter and S.A. Rasool. *J. Basic Microbiol.* 41(1), 25-36, 2001.
14. Purification, characterization and primary structure of four depressant insect-selective neurotoxins from scorpion *Buthus indicus* venom. S.A. Ali; S. Stoeva; Grossman J.G.; A. Abbasi & W. Voelter, *Arch. Biochem. Biophys.* 391(2), 197-201, 2001.
15. Isolation, structural and functional characterization of an apoptosis inducing L-amino acid oxidase from Leaf-nosed viper (*Eristocophis macmahoni*) snake venom. S.A. Ali; S. Stoeva; A. Abbasi; J.M. Alam; R. Kayed; M. Faigle; B. Neumeister and W. Voelter. *Arch. Biochem. Biophys.* 384(2), 216-226, 2000.
16. Oxygen Transport proteins: III. Structural studies of the scorpion (*Buthus indicus*) hemocyanin, partial primary structure of its subunit Bsin1. Ali, S.A., Abbasi, A., Stoeva, S., Kayed, R., Dolashka-Angelova, P., Schwarz, H. and Voelter, W. *Comp. Biochem. Physiol.*, 126(3), 361-376, 2000.
17. Low-Resolution Molecular Structures of Isolated Functional Units from Arthropodan and Molluscan Hemocyanin. G. J. Grossmann, S.A. Ali, A. Abbasi, Z.H. Zaidi, S Stoeva, W. Voelter and S. Samar Hasnain, *Biophys.J.*, 78, 977-981, 2000.
18. Sea Snake (*Hydrophis cyanocinctus*) venom, II: Histopathological changes, induced by a myotoxic phospholipase A₂. (PLA₂-H1) S. A., Ali, J.M. Alam, A. Abbasi, Z. H. Zaidi, S. Stoeva, and W. Voelter,. *Toxicon*, 38(5): 687-705, 2000.
19. Oxygen transport proteins II: Chemical and spectroscopic properties of scorpion (*Buthus indicus*) native hemocyanin and purified subunit Bsin 1, Ali, S.A., Stoeva, S., Abbasi, A., Georgieva D.N, Genov, N. and Voelter, W. *Comp. Biochem. Physiol.*, 126(3), 361-376, 2000.
20. Sea Snake (*Hydrophis cyanocinctus*) venom, I: Purification, characterization and N-terminal sequence of two phospholipases A₂. S. A. Ali, J.M. Alam, S. Stoeva, J. Schutz, A. Abbasi, Z. H. Zaidi, and W. Voelter, *Toxicon.* 37 (11), 1505-1520, 1999.

21. Pharmacological effects of the Leaf-nosed viper (*Eristocophis macmohani*) venom and its HPLC fractions S. A. Ali, F. Hamid, A. Abbasi, Z. H. Zaidi, and D. Shehnaz, *Toxicon* 37: 1095-1107, 1999.
22. Characterization of low molecular mass γ -crystallin from human lenses, A. Abbasi, D. L. Smith, and J. B. Smith *Exp. Eye Res.*, 67: 485-488, 1998
23. Purification and primary structure of low molecular mass peptides from scorpion (*Buthus indicus*) venom. S.A. Ali, S. Stoeva, J. Schutz, R. Kayed, A. Abbasi, Z. H. Zaidi, and W. Voelter, *Comp. Biochem. Physiol.*, 121(4): 323-332, 1998.
24. Isolation and characterization of a toxic phospholipase A₂ from sea snake (*Hydrophis cyanocinctus*) venom.. S. A. Ali, J. M. Alam, Z. H. Zaidi, and A. Abbasi, *Pak. J. Zool.* 30(4): 289-294, 1998.
25. Circular dichroism study of the hemocyanin stability, D. N. Georgieva, S. Stoeva, S. A. Ali, A. Abbasi, N. Genov and W. Voelter, *Spectrochimica Acta* 54A: 765-771, 1998.

e) PAPERS PRESENTED AT MEETINGS -4

2) CONFERENCES/ WORKSHOPS/ SYMPOSIA/ TRAINING COURSE ORGANIZED

Symposia

6th International symposium "Protein Structure Function Relationship" Feb 1999

7th International symposium "Protein Structure Function Relationship" Jan. 2003

Workshops

Characterization of Proteins, Jan.25th – 4th 2003

HPLC of Organic and Biomacromolecules, Feb 11-16, 1999

4) HONOURS AND AWARDS:

Women Scientist of the year 1999

PAS Gold Medal (Biochemistry) 2002