

Research Publications of Dr. M. Kamran Azim

Impact Factor; 36.65; according to Institute of Scientific Information Journal citation reports 2004.

Research Articles in Scientific Journals

Year 2007

- 1- Overproduction of Flagellin Protein in presence of Nickel in *Bacillus Cereus*. *Erum Shueb, Nuzhat Ahmed, Philip J Warner, Sarah Morgan, M. Kamran Azim*. **In preparation.**
- 2- NADPH oxidase-dependent ROI inhibitory efficacy of Pakistani honey. *M. Ahmed Mesaik and M. Kamran Azim*. **In preparation.**
- 3- Docking of Tryptophan analogues to Tryptophanyl-tRNA Synthetase; implication for non-natural amino acid incorporation. *M. Kamran Azim and Nediljko Budisa*. **Submitted to Protein Science.**
- 4- Characterization of protomer interfaces in HsIV protease; the bacterial homologue of 20S proteasome. *M. Kamran Azim and Sajid Noor*. **Protein J., 2007, Jun;26(4):213-9.**
Impact factor; 1.63
- 5- Anti-nociceptive activity of natural honey in thermal-nociception models in mice. *M. Kamran Azim, Shabana U. Simjeea, Humera Perveen and M. Ahmed Mesaik*. **Phytotherapy Research, 2007 Feb;21(2):194-7.**
Impact factor; 1.19
- 6- Bioinformatics at the interface of 21st Century Chemistry and Biology. *M. Kamran Azim*. **J. Chem Soc. Pak. 2007, in press.**
Impact factor; 0.17

Year 2005

- 7- Juliflorine: A potent natural peripheral anionic-site-binding inhibitor of acetylcholinesterase with calcium channel blocking potential. *M. Iqbal Choudhary, Sarfraz Ahmed Nawaz, Zabeer-ul-Haq, M. Kamran Azim, M. Nabeel Ghayur, M. Arif Lodhi, Saima Jalil, Asaad Khalid, Amir Ahmed, Bernd M. Rode, Atta-ur-Rahman, Anwar-ul-Hassan Gilani and Viqaruddin Ahmed*. **Biochem. Biophys. Res. Commun., 2005, 332, 1171-1179.**

Impact factor; 2.83

- 8- Structural basis of Acetylcholinesterase inhibition by triterpenoidal alkaloids. *Asaad Khalid, M. Kamran Azim, Shehnaaz Parveen, Atta-ur-Rahman, and M. Iqbal Choudhary. Biochem. Biophys. Res. Commun., 2005, 331, 1528-1532.*

Impact factor; 2.83

- 9- Characterization of the HslU chaperone affinity for HslV protease. *M. Kamran Azim, Walter Goebeling, Hyun Kyu Song, Ravishankar Ramachandran, Matthias Bochtler, Peter Goettig. Protein Science. 2005, 14, 1357-1362.*

Impact factor; 3.78

- 10- Structural and spectral response of Aequorea Victoria Green Fluorescent Proteins to Chromophore fluorination. *Prajan P. Pal, Jae H. Bae, M. Kamran Azim, Petra Hess, Rainer Friedrich, Robert Huber, Luis Moroder and Nediljko Budisa. Biochemistry, 2005, 44, 3663-3672.*

Impact Factor; 3.92

Year 2003

- 11- Expansion of the Genetic Code Enables Design of a Novel 'Gold' Class of Green Fluorescent Proteins. *Jae Hyun Bae, Marina Rubini, Gregor Jung, Georg Wiegand, Markus H. J. Seifert, M. Kamran Azim, Jeong-Sun Kim, Andreas Zumbusch, Tad A. Holak, Luis Moroder, Robert Huber and Nediljko Budisa. J. Mol. Biol., 2003, 328, 1071-1081.*

Impact factor; 5.23

- 12- Isolation and characterization of the prokaryotic proteasome homolog HslVU (ClpQY) from *Thermotoga maritima* and the crystal structure of HslV. *Hyun Kyu Song, Ravishankar Ramachandran, M. Kamran Azim, Claudia Hartmann, Matthias Bochtler and Robert Huber. Biophys. Chem., 2003, 100(1-3), 437-452.*

Impact factor; 1.72

Year 2002

- 13- Exchange in the Chromophore of a Green Fluorescent Protein Variant. *Markus H. J. Seifert, Dorota Ksiazek, M. Kamran Azim, Pawel Smialowski, Nediljko Budisa and Tad A. Holak. Slow J. Am Chem. Soc., 2002, 124(27), 7932-42.*

Impact factor; 6.51

Year 2001

- 14- Homology modeling of Nematode *Caenorhabditis Elegans* CED3 Protein-inhibitor Complex. *M. Kamran Azim, J. Gunter Grossmann and Zafar H. Zaidi. Biochem. Biophys. Res. Commun., 2001, 281(1), 115-121.*

Impact factor; 2.83

- 15- Characterization and Partial Purification of an Acid Endopeptidase from Human Erythrocytes. *M. Kamran Azim and Zafar H. Zaidi. J. Chem. Soc. Pak.*, 2001, 23(1), 45-49.
Impact factor=0.17

Year 1999

- 16- Molecular Modeling of Human Procathepsin E: Analysis of Salt-Bridge Interactions between Propeptide and Enzyme Segment. *M. Kamran Azim and Zafar H. Zaidi. Biochem. Biophys. Res. Commun.*, 1999, 264, 825-832.
Impact factor; 2.83
- 17- Predicted Three Dimensional Structural Models of Venom Serine Protease Inhibitors and their Interactions with Trypsin and Chymotrypsin. *M. Kamran Azim, J. Gunter Grossmann and Zafar H. Zaidi. J. Nat. Toxins*, 1999, 8(3), 363-384.
Impact factor; 0.48

Year 1998

- 18- Comparative Modeling of Cathepsin B Structures and Active Sites from Human, Chicken and Hookworm. *M. Kamran Azim, J. Gunter Grossmann and Zafar H. Zaidi. Res. Commun. Biochem. and Cell & Mol. Biol.*, 1998, 2, 113-128.

Chapters in books/proceedings

- 1- Molecular Recognition in Acetylcholinesterase-Inhibitor Complex. *Asaad Kbalid, M. Kamran Azim, Shebnaz Parveen, Atta-ur-Rahman and M. Iqbal Choudhary. Protein Structure-Function Relationship*. Proceedings of the 8th Inter. Symposium on Protein Structure Function Relationship, 2005. In press.
- 2- Architecture and assembly of the bacterial HsIVU protease complex. *M. Kamran Azim, Hyun Kyu Song, Claudia Hartmann, Ravishankar Ramachandran, Mathias Bochtler, and R. Huber. Protein Structure-Function Relationship*. Proceedings of the 7th Inter. Symposium on Protein Structure Function Relationship, 2004 p. 241-252.
- 3- Dis-assembling factories in the cell: licensed to kill. *M. Kamran Azim. Humboldt Kosmos*, 2002, 79, 33-34.
- 4- *Muhammad Kamran Azim, Nabeed Akhtar and M.A. Haleem. Computer-Aided Conformational Analysis of a Psychoactive Agent: Amoxapine. Proc. ISBBP Biochem. Biophys.*, 1994, 1, 40-43.