

Other Publications and Patents

- **Zhou X**, Ye L, Wu JC. Efficient production of L-lactic acid by newly isolated thermophilic *Bacillus coagulans* WCP10-4 with high glucose tolerance. *Appl Microbiol Biotechnol* 2013 May;97(10):4309-14.
- **Zhou X**, Wu JC. Overexpression of an L-arabinose isomerase from *Bacillus coagulans* in *Escherichia coli* and its characterization. *World. J. Micro. Biol.* 2012 May; 28(5):2205-12.
- Ye L, **Zhou X**, Hudari MSB, Li Z, Wu JC. Highly efficient production of L-lactic acid from xylose by newly isolated *Bacillus coagulans* C106. *Bioresour Technol* 2013 Mar; 132: 38-44.
- Ye L, Hudari MSB, **Zhou X**, Zhang D, Li Z, Wu JC. Conversion of acid hydrolysate of oil palm empty fruit bunch to L-lactic acid by newly isolated *Bacillus coagulans* JI12. *Appl Microbiol Biotechnol* 2013 Jun;97(11):4831-8.
- Mukherjee M, Chow SY, Yusoff P, Seetharaman J, Ng C, Sinniah S, Koh XW, Asgar NFM, Li D, Yim D, Jackson RA, Yew J, Qian J, Iyu A, Lim YP, **Zhou X**, Sze SK, Guy GR and Sivaraman J. Structure of a novel phosphotyrosine-binding domain in Hakai that targets E-cadherin. *EMBO J.* 2012 Jan 17;31(5):1308-19.
- **Zhou X**, Kini RM, Sivaraman J. Application of isothermal titration calorimetry and column chromatography for identification of biomolecular targets. *Nat Protoc.* 2011 Feb; 6(2):158-65.
- Zhang Y, Wu J, Yu G, Chen Z, **Zhou X**, Zhu S, Li R, Zhang Y, Lu Q. A novel natriuretic peptide from the cobra venom. *Toxicon* 2011 Jan;57(1):134-40.
- **Zhou X**, Chua TK, Tkaczuk KL, Bujnicki JM, Sivaraman J. The crystal structure of *Escherichia coli* spermidine synthase SpeE reveals a unique substrate-binding pocket. *J Struct Biol.* 2010 Mar;169(3):277-85.
- Roy A, **Zhou X**, Chong MZ, D'hoedt D, Foo CS, Rajagopalan N, Nirthanam S, Bertrand D, Sivaraman J, Kini RM. Structural and functional characterization of a novel homodimeric three-finger neurotoxin from the venom of *Ophiophagus hannah* (King cobra). *J Biol Chem.* 2010 Mar 12;285(11):8302-15.
- Doley R, **Zhou X**, Kini RM. "Snake Venom Phospholipase A2 Enzymes" In: "Handbook of Reptile Venoms and Toxins" Edited by Stephen P. Mackessy. CRC Press/Taylor and Francis, 14 July, 2009.
- **Zhou X**, Sun QX, Kini RM, Sivaraman J. A universal method for fishing target proteins from mixtures of biomolecules using Isothermal Titration Calorimetry. *Protein Science* 2008, 17(10): 1798-1804.
- **Zhou X**, Tan TC, Valiyaveettil S, Go ML, Velazquez-Campoy A, Kini RM, Sivaraman J. Structure characterization of myotoxic Ecarpholin S from *Echis carinatus* venom. *Biophysical Journal*. 2008, 95(10): 3366-3380.

- Zhou XD, Jin Y, Chen RQ, Lu QM, Wu JB, Wang WY, Xiong YL. Purification, cloning and biological characterization of a novel disintegrin from *Trimeresurus jerdonii* venom. *Toxicon* 2004, 43(1):69-75.
- Zhou XD, Jin Y, Chen RQ, Lu QM, Wu JB, Wang WY, Xiong YL. Purification, characterization and primary structure of a chymotrypsin inhibitor from *Naja atra* venom. *Comp Biochem Phys B*. 2004, 137(2):219-24.
- Zhou XD, Ding CH, Tai H, Jin Y, Chen RQ, Lu QM, Wang WY, Xiong YL. A novel disintegrin, jerdonatin, inhibit platelet aggregation and sperm-egg binding. *Comp Biochem Phys B*. 2004, 139(1):117-22.
- Chen RQ, Jin Y, Wu JB, Zhou XD, Li DS, Lu QM, Wang WY, Xiong YL. A new protein structure of P-II class snake venom metalloproteinases: it comprises metalloproteinase and disintegrin domains. *Biochem Biophys Res Commun*. 2003, 310(1):182-7.
- Jin Y, Lu QM, Zhou XD, Zhu SW, Li R, Wang WY, Xiong YL. Purification and cloning of cysteine-rich proteins from *Trimeresurus jerdonii* and *Naja atra* venoms. *Toxicon* 2003, 42(5):539-47.
- Chen RQ, Jin Y, Zhou XD, Lu QM, Wang WY, Xiong YL Molecular cloning and sequence analysis of two cDNAs encoding metalloproteinase-disintegrin from *Trimeresurus jerdonii*. *Chin J Biochem Mol Biol*. 2004. 20(1):6-12.
- Tai H, Wei Q, Song JX, Su M, Jin Y, Zhou XD, Ouyang HM, Wang WY, Xiong YL, Zhang Y. TMVA, a snake C-type lectin-like protein from *Trimeresurus mucrosquamatus* venom, activates platelet via GPIb. *Toxicon* 2004, 44(6):649-656.
- Chen RQ, Jin Y, Wu JB, Zhou XD, Li DS, Lu QM, Wang WY, Xiong YL. A novel high molecular weight metalloproteinase cleaves fragment F1 of activated human prothrombin *Toxicon* 2004 , 44(3):281-7.
- Li ZD, Shi CQ, Zhang QH, Xiong YL, Zhou XD, Wang WY, Song N. Mechanisms of purified cobra venom factor in preventing hyperacute rejection following discordant liver xenotransplantation in rats. *Natl Med J China*. 2004, 84(23):2007-2010.

Patents

- Zhou X*, Lee Stephanie, D-psicose production using probiotic Microorganisms. Application No.: PCT/SG2018/050269, Filing date: 31 May 2018
- Wu JC, Ye L, Zhou X. Highly Efficient Production of Lactic Acid from Hemicellulose Sugars by Newly Isolated Thermophilic *Bacillus Coagulans* Strains. WIPO(PCT): WO2014081395A1
- Kini RM, Sivaraman J, Zhou X. Method for screening of compounds. US patent 61/076,251.

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