

Curriculum Vitae

Dr. Yubo Zhang, Ph.D.

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Personal information

Sex: male Birth: 02.03.1984

Citizenship: P.R. China

Education

2012 - 2014

Post-doctor in **Crystography group, Max F. Perutz Laboratories, Vienna Biocenter (Europe)**

2009 - 2012

Joint Ph.D. in **Wuhan University (China)** and **University of Texas (United States)**

2007 - 2009

Master degree in **Wuhan University (China)**

2003 - 2007

Bachelor degree in **Xiangfan University (China)**

Research Interest

Bench Work (Six years)

- **Biochemistry and biophysics**
- **Protein Crystography**
- **Membrane Proteomics**

Computational Work (Three years)

- Computational assisted **protein design**
- Multi-scale simulations

Publications

[1]

The molecular recognition mechanism for superoxide dismutase presequence binding to the mitochondrial protein import receptor Tom20 from Oryza sativa involves an LRTLA motif. **Zhang Y**, Baaden M, Yan J, Shao J, Qiu S, Wu Y, Ding Y. **J Phys Chem B**. 2010 Nov 4;114(43):13839-46. (**first** author)

[2]

Isolation of thylakoid membrane complexes from rice (Oryza sativa L.) by a new Double-Strips BN/SDS-PAGE and bioinformatics prediction of stromal ridge subunits interaction. **Shao J***, **Zhang Y***, Yu J, Guo L, Ding Y. **PLoS One**. 2011;6(5):e20342. (* **co-first**)

- author)
- [3] *Mercury inhibits the L170C mutant of Aquaporin Z by making waters clog the water channel.* **Zhang Y**, Cui Y, Chen L, *Biophys Chem.* 2012 Jan;160(1):69-74. (**first** author)
- [4] *In silico study of Aquaporin V: Effects and affinity of the central pore-occluding lipid.* **Zhang Y**, Chen L, *Biophysical Chemistry*, (2012) Online Oct 2 (**first** author)
- [5] *Molecular cloning and functional analysis of a recombinant Ribosome inactivating protein (alpha-momorcharin) from Momordica charantia.* Wang S, **Zhang Y**, Liu H, He Y, Yan J, Wu Z, Ding Y. *Appl Microbiol Biotechnol.* 2012,96(4):939-50
- [6] *Binding mechanism between Hsp90 and Sgt1 explored by homology modeling and molecular dynamics simulations in rice.* Yan J, **Zhang Y**, Ding Y. *Journal of Molecular Modeling.* 2012, Vol 18, pp 4665-4673
- [7] *Characterization of A Novel Glutelin Subunit OsGluBX by Experimental Approach and Molecular Dynamics Simulations.* He Y, **Zhang Y**, Wang S, Ding Y. *Appl Biochem Biotechnol.* 2013 ;169(5):1482-96.
- [8] *Crosstalk of vesicle tethering and SNARE mediated membrane fusion.* **Zhang Y**, Dong G. (**first** author, for submission to *EMBO Journal*)

International Conferences

(1) Dec, 2010, University of Texas, United States

Title: The molecular recognition mechanism of Tom20 involves an LRTLA motif

(2) Sep, 2012, Hungary, Europe

Title: Structural studies of the amisyn-regulated assembly of the SNARE complex

(3) Sep, 2013, Czech Republic, Europe

Title: The regulatory mechanism of the SNARE assembly

(4) March, 2014, MFPL, Vienna, Austria, Europe

Title: Crosstalk of vesicle tethering and membrane fusion

(5) June, 2014, Vienna Biocenter, Austria, Europe

Title: Structural studies of the Sec regulated assembly of the SNARE complex