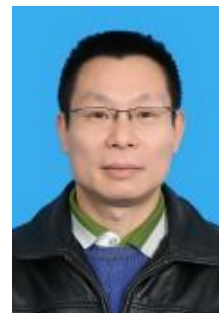


## PERSONAL:

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## BRIEF INTRODUCTION:

Dr. Wan received his Ph.D. in the Department of Molecular Physiology and Biophysics, University of Vermont, USA. He did his post-doctoral research in Case Western Reserve University and Oak Ridge National Lab, USA. He was the director of the Pharmacology Division, Shanghai Medicilon Inc. He joined Nanjing Agricultural University in 2015.

## PROJECTS UNDERTAKEN:

- (5) National Natural Science Foundation of China (31670790);
- (4) Natural Science Foundation of Jiangsu Province of China (BK20161443);
- (3) Scientific Research Foundation for the Returned Overseas Chinese Scholars;
- (2) Open Fund of State Key Laboratory of Natural Medicines, China Pharmaceutical University (SKLNMKF201609);
- (1) Take part in the Fundamental Research Funds for the Central Universities (Nanjing Agricultural University: KYTZ201604)

## HONORS AND AWARDS:

Six talent peaks project in Jiangsu Province

## TEACHING INFORMATION:

Protein crystallography (for graduate students), College Physics, Physics experiments

## PUBLICATIONS:

- (11) **Wan Q.**, Parks J.M., Hanson B.L., Fisher S.Z., Ostermann A., Schrader T.E., Graham D., Coates L., Langan P., Kovalevsky, A. Direct determination of protonation states and visualization of hydrogen bonding in a glycoside hydrolase with neutron crystallography. *Proc Natl Acad Sci USA*, **2015**, *112*(40), 12384-12389. (impact factor: 9.6).
- (10) **Wan Q.**, Bennett C.B., Wilson A.W., Kovalevsky A., Langan P., Howell E., Dealwis C.G. Toward resolving the catalytic mechanism of dihydrofolate reductase using neutron and

- ultrahigh resolution X-ray crystallography. *Proc Natl Acad Sci USA*, **2014**, *111*(51), 18225-18230. (impact factor: 9.8).
- (9) **Wan Q.**, Zhang Q., Hamilton-Brehm S., Weiss K., Mustyakimov M., Graham D., Coates L., Langan P., Graham D. and Kovalevsky A. X-ray crystallographic studies of family 11 xylanase Michaelis and product complexes: implications for the catalytic mechanism. *Acta Cryst D*, **2014**, *70*, 11-23. (impact factor: 7.2, **cover article**).
  - (8) **Wan Q.**, Ahmad M. F., Fairman J., Gorzelle B., Fuente M., Dealwis C. G., Maguire M. X-ray Crystallography and Isothermal Titration Calorimetry Studies of Salmonella Zinc Transporter ZntB. *Structure*. **2011**, *19*(5), 700-710. (impact factor: 6.3)
  - (7) Miyagi M., **Wan, Q.** (co-first author) , Ahmad M. F., Gokulrangan G., Tomechko S. E., Bennett B., Dealwis C. G. Histidine Hydrogen-Deuterium Exchange Mass Spectrometry for Probing the Microenvironment of Histidine Residues in Dihydrofolate Reductase. *PLoS One*. **2011**, *6*(2), e17055. (impact factor: 4.3)
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  - (5) Ahmad M. F., **Wan Q.** (co-first author), Jha, S., Motea, E., Berdis, A., Dealwis C.G. Evaluating the Therapeutic Potential of a Non-Natural Nucleotide that Inhibits Human Ribonucleotide Reductase. *Molecular Cancer Therapeutics*. **2012**, *11*(10), 2077-2086 (impact factor: 5.1)
  - (4) Wijerathna, S.R., Ahmad M.F., Xu, H., Fairman J, Zhang, J., Kaushal, P.S., **Wan, Q.**, Kiser, J.Y., and Dealwis, C.G. Targeting the Large Subunit of Human Ribonucleotide Reductase for Cancer Chemotherapy. *Pharmaceuticals*. **2011**, *4*(10), 1328-1354. (impact factor: 3.2)
  - (3) Ahmad M.F., Kaushal P.S., **Wan Q.**, Wijerathna S.R., An X., Huang M., Dealwis C.G. Role of Arginine 293 and Glutamine 288 in Communication between Catalytic and Allosteric Sites in Yeast Ribonucleotide Reductase. *J. Mol. Biol.*, **2012**, *419*(5), 315-29. (impact factor: 4.1)
  - (2) Nair U. B, Joel P. B, **Wan Q.**, Lowey S., Rould M. A, Trybus K. M. Crystal Structures of Monomeric Actin bound to Cytochalasin D. *J. Mol. Biol.*, **2008**, *384*(4), 848-864. October 2008. (impact factor: 4.1)
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