

# Zhu Guan

Professor

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## SHORT BIOGRAPHY:

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Dr. Zhu obtained both B.S. (1983, Biology) and M.S. (1986, Protozoology) degrees from Hangzhou University, China. After 3 years of working in Zhejiang Academy of Medical Sciences, Hangzhou, he studied at the University of Georgia, Athens, USA and obtained Ph.D. degree in Parasitology in 1993. Dr. Zhu worked in the Wadsworth Center, New York Department of Health as a Postdoctoral Fellow and then a Research Scientist from 1994 to 2000. He joined Department of Veterinary Pathobiology, College of Veterinary Medicine & Biomedical Sciences, Texas A&M University as a tenure-track Assistant Professor (2000-2005), tenured Associate Professor (2005-2010) and Full Professor (2010-2020). He was an adjunct professor at the Institute of Zoonosis, Jilin University since 2018 and now a Distinguished Professor. He is one of the leaders in the field of biochemistry, metabolism and drug discovery in *Cryptosporidium* parasites. During his tenure in U.S., he had received a total of >\$7 million (USD) research funds from NIH, USDA and other agents.

## RESEARCH INTERESTS :

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- Dr. Zhu' s research mainly focuses on *Cryptosporidium* and some other parasites. His research interests include parasite molecular and biochemical parasitology, characterization of drug targets and drug discovery, molecular mechanism of parasite invasion. One of the major goals is to discover anti-parasitic therapeutics based on the understanding of parasite fundamental biology.

## SELECTED PUBLICATIONS :

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- Ma J, Guo F, Jin Z, Geng M, Ju M, Ravichandran A, Orugunty R, Smith L, Zhu G, Zhang H. Novel Antiparasitic Activity of the Antifungal Lead Occidiofungin. *Antimicrob Agents Chemother*. 2020 Jul 22;64(8). PMID: 32457108.
- Zhu G, Liu M. An old drug as a promising new cure for the hard-to-treat echinococcosis. *EBioMedicine*. 2020 May;55:102749. PubMed PMID: 32339935
- Yu X, Guo F, Mouneimne RB, Zhu G. *Cryptosporidium parvum* Elongation Factor 1 $\alpha$  Participates in the Formation of Base Structure at the Infection Site During Invasion. *J Infect Dis*. 2020 May 11;221(11):1816-1825. PMID: 31872225
- Guo F, Zhang H, McNair NN, Mead JR, Zhu G. The Existing Drug Vorinostat as a New Lead Against Cryptosporidiosis by Targeting the Parasite Histone Deacetylases. *J Infect Dis*. 2018 Mar 13;217(7):1110-1117. PMID: 29300993
- Zhang H, Guo F, Zhu G. *Cryptosporidium* Lactate Dehydrogenase Is Associated with the Parasitophorous Vacuole Membrane and Is a Potential Target for Developing Therapeutics. *PLoS Pathog*. 2015;11(11):e1005250. eCollection 2015. PMID: 26562790

## AWARDS:

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- 2017 Zoetis Award for Veterinary Research Excellence
- 2000 Seymour Hutner Young Scientist Award, International Society of Protozoologists