

CURRICULUM VITAE

Personal Information					
Name	Bang Shen	Gender	Male		
Position Title	professor				
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Research Interest					
Molecular mechanisms governing Toxoplasma parasitism and pathogenesis; carbon metabolism and its regulation; molecular mechanisms that control the transition of acute infection to chronic infection; design of live attenuated anti-toxoplasmic vaccines for animals.					
Education & Working Experience					
Academic career 2005 – 2010 Ph.D (Microbiology and Molecular Genetics) University of Kansas Medical Centre, USA 2001 – 2005 Bachelor of Science (Biology) Wuhan University, China					
Research experience 2014 – Huazhong Agricultural University, Wuhan, China 2010 – 2014 Postdoctoral fellow (Molecular Parasitology) Washington University in St Louis, MO, USA					
Publications					
Xia N, Ye S, Liang X, Chen P, Zhou Y, Fang R, Zhao J, Gupta N, Yang S, Yuan J, Shen B* . Pyruvate Homeostasis as a Determinant of Parasite Growth and Metabolic Plasticity in <i>Toxoplasma gondii</i> . MBio. 2019 Jun 11;10(3). pii: e00898-19. doi: 10.1128/mBio.00898-19. Pan M, Li M, Li L, Song Y, Hou L, Zhao J, Shen B* (2019). Identification of Novel Dense-Granule Proteins in <i>Toxoplasma gondii</i> by Two Proximity-Based Biotinylation Approaches. Journal of Proteome Research, 18: 319–330 Xia N, Yang J, Ye S, Zhang L, Zhou Y, Zhao J, David Sibley L, Shen B* (2018). Functional analysis of <i>Toxoplasma</i> lactate dehydrogenases suggests critical roles of lactate fermentation for parasite growth in vivo. Cellular Microbiology, 20(1) Xia N, Zhou T, Liang X, Ye S, Zhao P, Yang J, Zhou Y, Zhao J, Shen B* (2018). A Lactate Fermentation Mutant of <i>Toxoplasma</i> Stimulates Protective Immunity Against Acute and Chronic Toxoplasmosis. Frontiers in Immunology, 9:1814 Yang J, Zhang L, Diao H, Xia N, Zhou Y, Zhao J, Shen B* (2017). ANK1 and DnaK-TPR, Two					

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Shen B, Brown K, Long S, Sibley LD* (2017). Development of CRISPR/Cas9 for Efficient Genome Editing in *Toxoplasma gondii*. *Methods Mol Biol*, 1498:79-103

Wang JL, Huang SY, Behnke MS, Chen K, **Shen B***, Zhu XQ* (2016). The Past, Present, and Future of Genetic Manipulation in *Toxoplasma gondii*. *Trends in Parasitology*, 32(7):542-553

Shen B & L David Sibley* (2014). *Toxoplasma aldolase* is required for metabolism but dispensable for host cell invasion. *PNAS*. 111(9):3567-72

Shen B, Kevin Brown, Tobie D Lee & L David Sibley* (2014). Efficient gene disruption in diverse strains of *Toxoplasma gondii* using CRISPR/CAS9. *mBio*, 13;5(3):e01114-14

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Shen B & L David Sibley* (2012). The moving junction, a key portal to host cell invasion by apicomplexan parasites. *Current Opinion in Microbiology*, 15(4):449-55