Bozeng Tang, Ph.D.

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EDUCATION & RESEARCH EXPERIENCE

Postdoctoral Scientist The Sainsbury Laboratory, UK	01/2020 - present Supervisor: Prof. Wenbo Ma Single-cell genomics to dissect plant-microbe interaction
Ph.D. (Plant Pathology) University of Exeter, UK	10/2015 - 12/2019 Supervisor: Prof. Nick Talbot FRS Fungal genetics to study pathogenicity mechanism of rice blast disease
M.Sc./Research Assistant (Plant Biology) University College Dublin, Ireland	08/2012 - 07/2015 Supervisor: Prof. Fiona Doohan Fusarium head blight, Sudden oak death
Research student University of Zurich, Switzerland	05/2010 - 06/2012 Supervisors: Prof. Robert Dudler, Prof. Enrico Martinoia, Prof. Lucas Pelkmans, Prof. Beat Keller
B.Sc. (Biotechnology) Sichuan Agricultural University, China	2005 - 2009 Supervisor: Prof. Moju Cao

AWARDS

2015	Halpin Scholarship, UK, GBP 240k, successful rate: 1/89
2008	Excellent undergraduate Student, China, CNY, 2,000, top 1%

MAIN SUPERVISION & TEACHING ACTIVITIES

2022-present	**Guest Lecturer** - BIO-5006A (Plant Biology). University of East Anglia, UK. I was responsible for the topic on plant-microbe interactions, which involved delivering lectures, preparing teaching materials, and creating exam questions for undergraduates.
2021-present	**Student supervisor** - The Sainsbury Laboratory, UK. I was responsible for daily management, designing the experiments for graduate dissertation for 1 PhD student, 2 master students.
2015-2016	**Teaching Assistant**: University of Exeter, UK. I acted as instructor for the experiments and provided tutoring to graduate students for two modules (Plant Biology, Fungal Biology)

MAIN PROFESSIONAL SERVICE ACTIVITIES

2021-present	**Master Class Admission Committee** - The Sainsbury Laboratory, UK. I am responsible for selecting and interviewing candidates
2020-present	**Peer Reviewer** : *Nature Communication*, *New Phytologist, mBio, Communication Biology, Bio-protocol, Genes, Molecular Plant Pathology, International Journal of Molecular Sciences*

LIST OF PUBLICATIONS

307 citations, h-index = 11, 6 first-author papers (Until May 2024)

FIRST-AUTHOR PUBLICATIONS

6. **Tang B**, Feng L, Hulin MT, Ding P, Ma W. Cell-type-specific responses to fungal infection in plants revealed by single-cell transcriptomics. ***Cell Host & Microbe***. 2023 Oct 11;31(10):1732-47. doi.org/10.1016/j.chom.2023.08.019 PDF (Impact Factor = 30.1)

5. **Tang B**, Yan X, Ryder LS, Bautista MJ, Cruz-Mireles N, Soanes DM, Molinari C, Foster AJ, Talbot NJ. Rgs1 is a regulator of effector gene expression during plant infection by the rice blast fungus *Magnaporthe oryzae*. ***Proceedings of the National Academy of Sciences***. 2023 Mar 21;120(12):e2301358120. doi.org/10.1073/pnas.2301358120 PDF (Impact Factor = 11.1)

4. Ren Z#, **Tang B#**, Xing J, Liu C, Cai X, Hendy A, Kamran M, Liu H, Zheng L, Huang J, Chen XL. MTA1-mediated RNA m6A modification regulates autophagy and is required for infection of the rice blast fungus. ***New Phytologist***. 2022 Jul;235(1):247-62.doi.org/10.1111/nph.18117 PDF (Impact Factor = 10.3)

3. **Tang B#**, Zhang Z#, Zhao X, Xu Y, Wang L, Chen XL, Wang W. Multi-omics analysis reveals a regulatory network of ZmCCT during maize resistance to Gibberella stalk rot at the early stage. ***Frontiers in Plant Science*.** 2022 Jun 23;13:917493. doi.org/10.3389/fpls.2022.917493 PDF (Impact Factor = 5.6)

2. **Tang B**, Liu C, Li Z, Zhang X, Zhou S, Wang GL, Chen XL, Liu W. Multilayer regulatory landscape during pattern-triggered immunity in rice. ***Plant Biotechnology Journal***. 2021 Dec;19(12):2629-45.doi.org/10.1111/pbi.13688 PDF (Impact Factor = 13.2)

1. Cai X#, **Tang B#**, Hendy A, Ren Z, Liu C, Kamran M, Xing J, Zheng L, Liu H, Huang J, Chen XL. The Magnaporthe oryzae MAP kinase Pmk1 regulates polycomb repressive complex 2 to reprogram genes expression for biotrophic growth. ***Mbio*** (under review). 2021 Apr 21:2021-04. https://doi.org/10.1101/2021.04.20.440724 PDF (Impact Factor = 6.4)

COLLABORATIVE PUBLICATIONS

I mainly support my colleagues by designing experiments related to NGS data and conducting analysis. Additionally, I ensure the accuracy and rigour of statistical analyses.

10. Cruz-Mireles N, Oses-Ruiz M, Derbyshire P, Jegousse C, Ryder LS, Bautista MJ, Eseola AB, **Tang B**, Yan X, Ma W, Findlay KC. The phosphorylation landscape of infection-related development by the rice blast fungus. ***Cell***. 2023:2023-08. doi.org/10.1101/2023.08.19.553964 PDF (Impact Factor = 66.8)

9. Li H, Wang J, Kuan TA, **Tang B**, Feng L, Wang J, Cheng Z, Skłenar J, Derbyshire P, Hulin M, Li Y. Pathogen protein modularity enables elaborate mimicry of a host phosphatase. ***Cell***. 2023 Jul 20;186(15):3196-207. doi.org/10.1016/j.cell.2023.05.049 PDF (Impact Factor = 66.8)

8. Yan X, **Tang B**, Ryder LS, MacLean D, Were VM, Eseola AB, Cruz-Mireles N, Ma W, Foster AJ, Osés-Ruiz M, Talbot NJ. The transcriptional landscape of plant infection by the rice blast fungus Magnaporthe oryzae reveals distinct families of temporally co-regulated and structurally conserved effectors. ***The Plant Cell***. 2023 May 1;35(5):1360-85. doi.org/10.1093/plcell/koad036 PDF (Impact Factor = 12.1)

7. Zeng Z, Jiang C, Tan Q, **Tang B**, Huang Z. Larvae of a marine gastropod and a marine bivalve share common gene expression signatures during metamorphic competence. ***Marine Biology***. 2022 Sep;169(9):117. doi.org/10.1007/s00227-022-04106-y PDF (Impact Factor = 2.9)

COLLABORATIVE PUBLICATIONS (continued)

6. Osés-Ruiz M, Cruz-Mireles N, Martin-Urdiroz M, Soanes DM, Eseola AB, **Tang B**, Derbyshire P, Nielsen M, Cheema J, Were V, Eisermann I. Appressorium-mediated plant infection by Magnaporthe oryzae is regulated by a Pmk1-dependent hierarchical transcriptional network. ***Nature Microbiology***. 2021 Nov;6(11):1383-97. doi.org/10.1038/s41564-021-00978-w PDF (Impact Factor = 28.3)

5. He M, Su J, Xu Y, Chen J, Chern M, Lei M, Qi T, Wang Z, Ryder LS, Tang B, Osés-Ruiz M. Discovery of broad-spectrum fungicides that block septin-dependent infection processes of pathogenic fungi. ***Nature Microbiology***. 2020 Dec;5(12):1565-75. https://doi.org/10.1038/s41564-020-00790-y PDF (Impact Factor = 28.3)

4. Chen XL, Liu C, **Tang B**, Ren Z, Wang GL, Liu W. Quantitative proteomics analysis reveals important roles of N-glycosylation on ER quality control system for development and pathogenesis in *Magnaporthe oryzae*. ***PLoS pathogens***. 2020 Feb 24;16(2):e1008355. doi.org/10.1371/journal.ppat.1008355 PDF (Impact Factor = 6.7)

3. Zhao X, **Tang B**, Xu J, Wang N, Zhou Z, Zhang J. A SET domain-containing protein involved in cell wall integrity signaling and peroxisome biogenesis is essential for appressorium formation and pathogenicity of *Colletotrichum gloeosporioides*. *Fungal Genetics and Biology*. 2020 Dec 1;145:103474. doi.org/10.1016/j.fgb.2020.103474 PDF (Impact Factor = 3.9)

2 Thapa G, Das D, Gunupuru LR, **Tang B**. Endurance assessment of Eichhornia crassipes (Mart.) Solms, in heavy metal contaminated site–a case study. ***Cogent Environmental Science***. 2016 Dec 31;2(1):1215280. doi.org/10.1080/23311843.2016.1215280 PDF (Impact Factor = 3.8)

1. Cruz-Mireles N, Eisermann I, Garduño-Rosales M, Molinari C, Ryder LS, **Tang B**, Yan X, Talbot NJ. The biology of invasive growth by the rice blast fungus *Magnaporthe oryzae*. *Magnaporthe oryzae*: Methods and Protocols (Book Chapter) PDF (2021).

INVITED PRESENTATIONS

11/2023	Sheng-yang He lab, Duke University, USA.
07/2023	Molecular Plant-Microbe Interactions (IS-MPMI) Congress 2023, USA.
04/2023	Norwich-Cambridge Science Symposium, UK.
02/2020	15th European Conference on Fungal Genetics, Italy.
11/2019	JIC/TSL Annual Science Meeting, UK.
09/2017	British Society for Plant Pathology conference, UK.

COLLABORATORS

Prof. Nick Talbot	The Sainsbury Laboratory, UK
Prof. Wenbo Ma	The Sainsbury Laboratory, UK
Dr. Pingtao Ding	University of Leiden, Nederland
Prof. Xiaolin Chen	Huazhong Agricultural University, China
Prof. Wende Liu	Institute of Plant Protection (CAAS), China
Dr. Genesh Tharpa	Trinity College Dublin, Ireland
Prof. Hui Li	Institute of Genetics and Developmental Biology (CAS), China
Dr. Micheille Hulin	Michigan State University, USA