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APPOINTMENTS AND EDUCATION

Postdoctoral fellow in Zoology, University of British Columbia, Canada	2024-present
Research topic: “Establishing a microbiome-based early detection system for polar bear health and disease risk in the warming Arctic”	
Advisor: Dr. Kayla King	
Ph.D. Biology, University of Oxford, UK	2020.10-2024.1
Thesis: “Host microbiota and infection outcomes in thermally extreme environments”	
Advisors: Dr. Sarah Knowles & Dr. Kayla King	
M.S. Bioinformatics, NPU, China & EMBL-EBI Cambridge, UK	2017-2020
Thesis: “Discovering metabolic diseases-associated novel prokaryotic genomes and functions in human gut”	
Advisors: Dr. Huimeng Lu & Dr. Rob Finn	
B.S. Biotechnology, Northwestern Polytechnical University (NPU) – Xi'an, China	2013-2017
Thesis: “The evolution history of Fe-S cluster A-type assembly protein family”	
Advisor: Dr. Huimeng Lu	

SELECTED PUBLICATIONS

† denotes equal contribution *corresponding author

- Li, J*, King, K. 2025. Microbial Primer: Microbiome and thermal tolerance - a new frontier in climate resilience?. *Microbiology*, 171(1), 001523. <https://doi.org/10.1099/mic.0.001523>. Featured on Microbial Talk podcast: <https://soundcloud.com/microbiosoc/microbiome-and-thermal-tolerance-a-new-frontier-in-climate-resilience>.
- Li, J*, Smith, C. A., Chen, J., Bates, K.A., King, K. C. 2025. Warming during different life stages has distinct impacts on host resistance ecology and evolution. *Ecology Letters*. 10.1111/ele.70087.
- Li, J*, N. Guttmann, G. C. Drew, J. Wolinska, K. C. King. 2024. Excess mortality of infected ectotherms induced by climate change depends on pathogen kingdom and evolutionary history. *PLoS Biology* 22(11): e3002900. <https://doi.org/10.1371/journal.pbio.3002900>. Featured by UBC News and Canada Fairchild TV: <https://news.ubc.ca/2024/12/climate-change-bacterial-infections-corals/>.
- Li, J*, Y. Gao, Stevens, E, King, K. C. 2024. Dual stressors of infection and warming can destabilize host microbiomes. *Philosophical Transactions of the Royal Society B*. 10.1098/rstb.2023.0069.
- Li, J*, Bates, K, Hoang, K, Hector, T, Knowles, S, & King, K. C. 2023. Experimental temperatures shape host microbiome diversity and composition. *Global Change Biology*. 10.1111/gcb.16429.
- Stevens, E, Li, J, Hector, T, Drew, G, K. Hoang, Greenrod, S, Paterson S, King K. C. 2025. Within-host competition sparks pathogen molecular evolution and perpetual microbiota dysbiosis. *ISME J*. <https://doi.org/10.1093/ismejo/wraf071>.

Full list of publication: <https://scholar.google.com/citations?user=VN17GCMAAAJ&hl=en>

SELECTED INVITED TALKS

Invited. Northwestern Polytechnical University, Xi'an, China	2025
The dynamics of host-associated microbiota in the warming and infectious world.	
Invited. Biodiversity Research Center, University of British Columbia	2024
The impact of warming on pathogen virulence and host resistance evolution.	
Invited. Institute of Applied Ecology, Chinese Academy of Science, Shenyang, China	2024
The evolution of host resistance to pathogen infection is shaped by temperature and dilution effect.	
Invited. Pembroke MCR Symposium, Oxford	2022
The shaping force of temperatures on host-microbiome interactions.	