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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=VN17GCMAAAAJ&hl=en>

SELECTED INVITED TALKS

<i>Invited</i> . Northwestern Polytechnical University, Xi’an, China	2025
The dynamics of host-associated microbiota in the warming and infectious world.	
<i>Invited</i> . Biodiversity Research Center, University of British Columbia	2024
The impact of warming on pathogen virulence and host resistance evolution.	
<i>Invited</i> . 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.	
<i>Invited</i> . Pembroke MCR Symposium, Oxford	2022
The shaping force of temperatures on host-microbiome interactions.	