

Zhixuan (Tiffany) Feng

Ph.D. candidate

Sainte-Anne-de-Bellevue, Quebec, Canada

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SUMMARY

- Dedicated and conscientious final year Ph.D. candidate focused on microbiology study, using culture-dependent and culture-independent methods to study the microbiome and find potential probiotics to defeat pathogens.
 - Systematically trained in microbial theory, laboratory techniques, and bioinformatics, with extensive experience mentoring students in microbiology
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EDUCATIONS

Ph.D., Animal Science, 2019 to date
(expected to graduate in 2024)

McGill University, Sainte-Anne-de-Bellevue, Quebec, Canada

MSc. Applied, Animal Science, 2018-2019

McGill University, Sainte-Anne-de-Bellevue, Quebec, Canada

BS, Biotechnology, 2014-2018

South Chin Agricultural University, Guangzhou, Guangdong, China

RESEARCH EXPERIENCES

- Prospecting the Chicken Microbiome for Anti-Infective Probiotics – 2019-PRESENT

Location: Laboratory of Jennifer Ronholm Scientist, McGill University, Montreal, Canada

- Combined different cultures and sequencing methods to explore the microbial community of chicken feces and find potential chicken probiotics.
- Managed and identified large amounts of bacteria collection, established protocol for inter-bacterial competition and analyzed bacterial genome.
- Mentored and supervised undergraduate students and visiting students to develop this project.
- Finding degradable bacterial for Diffusible Signal Factor (DSF) – 2016-2017

Location: Laboratory of Shaohua Chen Scientist, Integrative Microbiology Research Center, South China Agriculture University, Guangzhou, China

- Isolated bacteria from soil with selective medium that can degrade DSF and protect plants from black rot disease.
 - Identified bacterial degradation efficiency with HPLC and tested with their potential to control radish black rot disease.
 - Published one paper and applied for two patents in this project.
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TEACHING EXPERIENCES

- Teaching Assistant of Food Microbiology FDSC442

Location: McGill University, Sainte-Anne-de-Bellevue, Canada

- Prepared experimental materials, delivered lectures and guided experiments during class, reviewed experiment reports and answered questions.
- Conducted teaching activities in a safe and orderly manner, effectively managed time to balance teaching responsibilities and personal coursework.
- Encouraged students to think independently rather than providing direct answers, allowing them to experience the research process while validating textbook knowledge.
- Guest lecturer of Food Microbiology in Advance FDSC545

Location: McGill University, Sainte-Anne-de-Bellevue, Canada

- Introduced students to my research project and elucidated the significance of my project in studying uncultivated bacteria and discussed potential directions for further research.
- Substitute lecturer of Food-Borne Pathogens ANSC 350

Location: McGill University, Sainte-Anne-de-Bellevue, Canada

- Delivered a lecture on foodborne intoxications, introducing *Clostridium botulinum*, and explained its implications on food safety.
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Paper:

Ye, T.; Zhang, W.; Feng, Z.; Fan, X.; Xu, X.; Mishra, S.; Zhang, L.; Chen, S. Characterization of a Novel Quorum-Quenching Bacterial Strain, *Burkholderia anthina* HN-8, and Its Biocontrol Potential against Black Rot Disease Caused by *Xanthomonas campestris* pv. *campestris*. *Microorganisms* 2020, 8, 1485.

Patents:

South China Agricultural University, A Diffusible Signal Factor (DSF) degradable bacterial and the application in plant disease prevention, China, 201711405448.1, 2017-12-22 (Second inventor).

South China Agricultural University, The application of an *Acinetobacter Lactucae* in the degradation of Diffusible Signal Factor, China, 201711116059.7, 2017-11-13 (Seventh inventor)