Zhijun Wang

PhD Candidate

Food Quality and Design Group, Wageningen University & Research

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Research Interests

Food chemistry and Nutrition, food fraud, origin tractability, chemomentrics

Education

Wageningen University & Research *Wageningen, The Netherlands*

Doctor of Food Science, Food Authenticity and Nutrition *09/2017-10/2021*

- Correlation analysis of banana compositions and growing conditions

Nanchang University *Nanchang, China*

Master of Food Science and Engineering *09/2014-07/2017*

- Structural modification and biological activity of polysaccharides

Nanchang University *Nanchang, China*

Bachelor of Food Science and Engineering *09/2010-07/2014*

Publications

Wang, Z., Erasmus, S. W., Dekker, P., Guo, B., Stoorvogel, J. J., & Ruth, S. M. van. (2020). Linking growing conditions to stable isotope ratios and elemental compositions of costa rican bananas (musa spp.). *Food Research International*, *129*, 108882.

Wang, Z., Erasmus, S. W., Liu, X., & Van Ruth, S. M. (2020). Study on the relations between hyperspectral images of bananas (musa spp.) from different countries, their compositional traits and growing conditions. *Sensors*, *20*(20), 5793.

Wang, Z., Xie, J., Shen, M., Nie, S., & Xie, M. (2018). Sulfated modification of polysaccharides: Synthesis, characterization and bioactivities. *Trends in Food Science & Technology*, *74*, 147–157.

Wang, Z., Xie, J., Nie, S., & Xie, M. (2017). Review on cell models to evaluate the potential antioxidant activity of polysaccharides. *Food & Function*, *8*(3), 915–926.

Wang, Z., Xie, J., Yang, Y., Zhang, F., Wang, S., Wu, T., Shen, M., & Xie, M. (2017). Sulfated cyclocarya paliurus polysaccharides markedly attenuates inflammation and oxidative damage in lipopolysaccharide-treated macrophage cells and mice. *Scientific Reports*, *7*(1), 1–12.

Wang, Z., Xie, J., Shen, M., Tang, W., Wang, H., Nie, S., & Xie, M. (2016). Carboxymethylation of polysaccharide from cyclocarya paliurus and their characterization and antioxidant properties evaluation. *Carbohydrate Polymers*, *136*, 988–994.

Wang, Z., Xie, J., Kan, L., Wang, J., Shen, M., Li, W., Nie, S., & Xie, M. (2015). Sulfated polysaccharides from cyclocarya paliurus reduce h2o2-induced oxidative stress in raw264. 7 cells. *International Journal of Biological Macromolecules*, *80*, 410–417.

Selected Presentations

Wang, Z., Erasmus, S., & Ruth, S. van. (2020, November). *The correlation analysis of banana composition and growing condition based on stable isotope and elemental analysis*. Oral presented at china international food safety & quality conference 2020, Shanghai, China.

Wang, Z., Erasmus, S., Dekker, P., Guo, B., & Ruth, S. van. (2019, November). *Banana provenance: Correlation of growing conditions, stable isotopes and elemental compositions of costa rican bananas*. Poster presented at the 33rd the european federation of food science and technology (effost) international conference, Rotterdam, the Netherlands.

Wang, Z., Erasmus, S., & Ruth, S. van. (2019, March). *Geographical features of bananas in costa rica and their stable isotope ratios and elemental compositions*. Oral presented at the benelux association of stable isotope scientists (basis) meeting, Texel, the Netherlands.

Teaching Experience

Course Assistant

FQD-36306 Food Fraud and Mitigation *09/2018 - 09/2020*

Student guidance in group discussion

Graduate Student supervisor

Intern thesis; *04/2018 - 08/2018*

office hours; supervising student research projects

Master student thesis *09/2019 - 03/2020*

office hours; supervising student research projects

Professional Service

Reviewer

- Food Research International
- Journal of Food Engineering
- Journal of Food Science