Personal Resume

Name: Kai Chen

Birth: Oct 7, 1986

Sex: male

Native Place: Wuhan, PR China

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Major: Food science and engineering

Graduate school: Huazhong Agricultural University

Degree: Ph.D.

Education:

2005.9-2009.6, Wuhan Institute of Technology, Majored Biotechnology, Bachelor

2010.9-2017.6, Huazhong Agricultural University, Majored Horticulture (Pomology), Doctor

Employment Experience:

2017.8-2019.1, Department of Landscape and Horticulture, Wuhan Institute of Bioengineering, Lecturer

2019.1-now, School of Life and Health Sciences, Hubei University of Technology, Associate professor

Research fields:

[1] Konjac glucomannan-based coating/film for preservation of fruits and vegetables

[2] Biomass based aerogels for air filtration

[3] Konjac glucomannan superabsorbent polymer

Academic Projects:

[1] Mechanism of konjac glucomannan/curdlan composite system to inhibit moisture loss of fruits and vegetables in cold chain, supported by Hubei Provincial Department of Education

(Q20211408)

[2] Cooling and moisturizing properties of konjac superabsorbent (KSAP) and its application in cigarette, supported by Hubei University of Technology (BSQD2019035)

Journal articles:

[1] Tian R, Yuan S, Jiang J, Kuang Y, Wu K, Sun S, **Chen K***, Jiang F*. Improvement of mechanical, barrier properties, and water resistance of konjac glucomannan/curdlan film by zein addition and the coating for cherry tomato preservation. International Journal of Biological Macromolecules. 2024, 134132.

[2] **Chen K**, Tian R, Jiang J, Xiao M, Wu K, Kuang Y, Deng P, Zhao X, Jiang F. (2024). Moisture loss inhibition with biopolymer films for preservation of fruits and vegetables: A review. International Journal of Biological Macromolecules, 263, 130377.

[3] **Chen K**, Jiang J, Tian R，Kuang Y, Wu K, Xiao M, Liu Y, Qian H, Jiang, F. (2024). Properties of konjac glucomannan/curdlan-based emulsion films incorporating camellia oil and the preservation effect as coatings on 'Kyoho' grapes. International Journal of Biological Macromolecules, 258, 128836.

[4] **Chen, K.**, Xu, G., Tian, R., Jiang, J., Wu, K., Kuang, Y., Jiang, F. (2023). Development of konjac glucomannan based *Syringa* essential oil film and its fragmented form for quality maintenance of citrus fruits. Food Packaging and Shelf Life, 40, 101185.

[5] **Chen K**, Tian RM, Xu GJ, Wu K, Liu Y, Jiang FT. Characterizations of konjac glucomannan/curdlan edible coatings and the preservation effect on cherry tomatoes. International Journal of Biological Macromolecules. 2023, 232: 123359.

[6] **Chen K**, Xu GJ, Tian RM, Jiang J, Kuang Y, Jiang FT. Characterizations and great application potential for air filtration of konjac glucomannan/curdlan aerogels. Industrial Crops & Products, 2023, 195, 116462.

[7] **Chen K**, Tian ZH, He H, Long CA, Jiang F. *Bacillus* species as potential biocontrol agents against citrus diseases. Biological Control, 2020, 151, 104419.

[8] **Chen K**, Tian ZH, Chen P, He H, Jiang FT, Long C. Genome-wide identification, characterization and expression analysis of lineage-specific genes within *Hanseniaspora* yeasts, FEMS Microbiology Letters, 2020, 367(11): fnaa077.

[9] **Chen K**, Tian ZH, Jiang FT, Cheng YJ, Long CA. The shared and specific genes and a comparative genomics analysis within three *Hanseniaspora* strains. International Journal of Genomics, 2019, ID 7910865.

[10] **Chen K**, Tian ZH, Jiang FT, Long CA. 2019. Development of *Penicillium italicum*-Specific Primers for Rapid Detection among Fungal Isolates in Citrus. Journal of microbiology and biotechnology, 29 (6): 984-988.

[11] **Chen K**, Tian ZH, Luo Y, Cheng YJ, Long CA. Antagonistic activity and mechanism of *Bacillus amyloliquefaciens* DH-4 against citrus green mold. Phytopathology, 2018, 108(11): 1253-1262.

[12] **Chen K**, Tian ZH, Wang L, Long CA. Development of specific primers based on genomes of *Penicillium* spp. to detect *Penicillium digitatum* rapidly among fungal isolates in citrus. European Journal of Plant Pathology, 2017, 149(1): 201-209.

[13] **Chen K**, Yang XP, Zheng F, Long CA. Genome sequencing and analysis of *Kloeckera apiculata* strain 34-9, a biocontrol agent against postharvest pathogens in citrus. Genes & Genomics, 2017, 39(1): 87-99.