**彭燁** **助理教授**

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**教育經歷:**

2015-2019 博士 食品科學與營養 馬塞諸塞大學阿姆斯特分校 (美國)

2013-2015 碩士 食品科學 佐治亞大學 (美國)

2008-2012 本科 生物技術 西北農林科技大學

**工作經歷:**

2022.09-至今 助理教授 醫學院 食品與營養科學系 澳門科技大學

2020-2022.09 副教授 食品科學與生物工程學院 江蘇大學

2015-2019 助理研究員 食品科學與營養系 馬塞諸塞大學阿姆斯特分校（美國）

2013-2015 助理研究員 食品安全與營養系 佐治亞大學（美國）

**研究方向**

* 主要從事環境污染物（殺蟲劑）對糖類和脂質代謝異常的影響及作用機制。如氯蟲苯甲醯胺對脂肪積累的作用機制，該研究方向獲得國家自然科學基金青年基金。
* 食品中生物活性組分對衰老，脂肪與葡萄糖代謝的作用及機理研究。
* 建立肌肉細胞體外模型和小鼠體內模型研究環境污染物，生物活性成分如菊苣酸，牡荊素等對糖類代謝的影響及機制。

**榮譽與獲獎**

2021-2022 年度高被引論文

2019 年度Francis presentation competition 第一名

2018 Citri-Fiber 產品研發大賽二等獎

2015- 2019 Peter Salmon 獎學金

2015- 2018 馬塞諸塞大學研究生獎學金

2013- 2015 佐治亞大學研究生全額獎學金

**代表性文章**

1. Yang J., Gu T., Lu Y., Xu Y., Gan R.Y., Ng S.B., Sun Q., **Peng Y\***. (2023) Edible Osmanthus fragrans flowers: aroma and functional components, beneficial functions, and applications. Crit Rev Food Sci Nutr, 7:1-14. doi: 10.1080/10408398.2023.2220130.

2. **Peng Y**., Gu T., Zhong T., Xiao Y., Sun Q\*. (2022) Endoplasmic reticulum stress in metabolic disorders: opposite roles of phytochemicals and food contaminants. *Current Opinion in Food Science*, 48, 100913.

3. Chen G., Wang G., Xu W., Xiao Y., **Peng Y\***. (2022) Transcriptome analysis of fat accumulation in 3T3-L1 adipocytes induced by chlorantraniliprole. Front Nutr, 15;9:1091477. doi: 10.3389/fnut.2022.1091477.

4. Wang G., Huang Y., Gao Y., Chen G., Cui L., **Peng Y.**, Sun Q.\* (2023) The fat accumulation promotion effects of dihydrxytetraphenylmethane and its underlying mechanisms via transcriptome analysis, *Current Research in Food Science*, Volume 7, 100534, <https://doi.org/10.1016/j.crfs.2023.100534>.

5. Cao Q, Wang G, and **Peng Y\*.** (2021) A critical review on phytochemical profile and biological effects of turnip (*Brassica rapa L.*). *Frontiers in Nutrition*, 8(459), 1-6.

6. Xu, W., Li, J., Qi, W., and **Peng, Y\***. (2021). Hypoglycemic effect of vitexin in C57BL/6J mice and HepG2 models. *Journal of Food Quality*, 1-7.

7. **Peng, Y.**, Gan, R., Li, H., Yang, M., McClements, D. J., Gao, R., and Sun, Q. (2020) Absorption, metabolism, and bioactivity of vitexin: recent advances in understanding the efficacy of an important nutraceutical. *Critical Reviews in Food Science and Nutrition*, 27, 1-16.

8. **Peng, Y.**, Sun, Q., Gao, R., & Park, Y. (2019). AAK-2 and SKN-1 are involved in chicoric-acid-induced lifespan extension in *Caenorhabditis elegans*. *Journal of Agricultural and Food Chemistry*, 67(33), 9178-9186.

9. **Peng, Y.**, Sun, Q., & Park, Y. (2019). Chicoric acid promotes glucose uptake and Akt phosphorylation via AMP-activated protein kinase α-dependent pathway. *Journal of Functional Foods*, 59, 8-15.

10. **Peng, Y.**, Sun, Q., Xu, W., He, Y., Jin, W., Yuan, L., & Gao, R. (2019). Vitexin ameliorates high fat diet-induced obesity in male C57BL/6J mice via the AMPKalpha-mediated pathway. *Food & Function*, 10(4), 1940-1947.

11. Yuan, L, Lin, J., **Peng, Y**\*, Gao, R., and Sun, Q.\* (2019). Chlorantraniliprole induces adipogenesis in 3T3-L1 adipocytes via the AMPKα pathway but not the ER stress pathway. *Food Chemistry*, 311, 125953.

12. Sun, Q.#, **Peng, Y**.#, Park, Y. (2018). Permethrin decreased insulin-stimulated AKT phosphorylation dependent on extracellular signal-regulated kinase-1 (ERK), but not AMP-activated protein kinase α (AMPKα), in C2C12 myotubes. *Food and Chemical Toxicology*, 109(1), 95-105.

13. Sun, Q., Lin, J., Peng, Y., **Peng, Y**\*. (2018). Flubendiamide enhances adipogenesis and inhibits AMPKα in 3T3-L1 adipocytes. *Molecules*, 23(11), 2950.

14. Liu, J., **Peng, Y.**, Yue, Y., Shen, P., Park, Y. (2018). Epigallocatechin-3-Gallate reduces fat accumulation in *Caenorhabditis elegans*. *Preventive Nutrition and Food Science*, 23(3), 214–219.

15. **Peng, Y.**, Deng, X., Harrison, M. A., Alali, W. Q. (2016). *Salmonella* levels associated with skin of turkey parts. *Journal of Food Protection*, 79(5), 801-805.

**會議報告**

1. **Peng, Y.**, Park, Y. Chicoric acid promotes glucose uptake via AMP-activated protein kinase α-dependent pathway. Annual Board Advisor Meeting, Food Science Department, UMass, Amherst. 5 April 2019 (oral presentation).

2. **Peng, Y.**, Sun, Q., Yue, Y, Park, Y. Effects of Chicoric acid on lifespan extension in *Caenorhabditis elegans*. The 56th Society of Toxicology Annual Meeting, Baltimore, Maryland, 12-16 March 2017 (oral presentation).

3. **Peng, Y.**, Cui, Y., Alali, W. *Salmonella* levels associated with skin of turkey parts. International Association of Food Protection, Portland, 26-28 July 2015 (oral presentation).