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研究方向：糖生物工程、生物分离工程

个人简介：叶红，博士，副教授。目前从事糖生物工程、生物分离工程方面的教学与研究，主持国家自然科学基金一项（31201454），参加了3项国家自然科学基金（30870547，30570415，31171750）的研究工作，发表论文二十余篇。

科研情况：

主持科研项目

- (1) 国家自然科学基金“茶树花多糖的免疫和抗肿瘤活性及其构-效关系的研究”（2013-2015年）
- (2) 中央高校基本科研业务费“食源性多糖的免疫与抗肿瘤活性、结构及其构-效关系的研究”（2012-2014年）

参与科研项目

- (1) 国家自然科学基金“Alpha-低聚半乳糖的益生与免疫活性及其构效关系研究”（2012-2015年）
- (2) 国家自然科学基金“葡萄糖醛酸寡糖的酶法合成及其与朊病毒



蛋白和选凝素相互作用的研究”（2009-2011 年）

(3) 国家 863 计划 “芯-壳复合纳米颗粒及其纳米营养物制备技术的研究 ”（2007-2010 年）

(4) 教育部“基于 MAPK 信号通路的鼎湖鳞伞菌丝体多糖 PDP-3 组分诱导乳腺癌 MCF-7 细胞凋亡的机制研究 ”（2014-2016 年）

(5) 教育部 “可食用芯-壳纳米颗粒的制备及其提高 EGCG 生物利用率的的作用的研究”（2013-2015 年）

科研成果：

(1) Tong Di, Guijie Chen, Yi Sun, Shiyi Ou, Xiaoxiong Zeng, Hong Ye. Antioxidant and immunostimulating activities *in vitro* of sulfated polysaccharides isolated from *Gracilaria rubra*. *Journal of Functional Foods*, 2017, 28: 64-75

(2) Hong Ye, Chunhong Zhou, Wei Li, Bing Hu, Xiaoqing Wang, Xiaoxiong Zeng. Structural elucidation of polysaccharide fractions from brown seaweed *Sargassum pallidum*. *Carbohydrate Polymers*, 2013, 97: 659–664.

(3) Chunlin Ke, Di Wang, Yi Sun, Deliang Qiao, Hong Ye(通讯作者), Xiaoxiong Zeng. Immunostimulatory and antiangiogenic activities of low molecular weight hyaluronic acid. *Food and Chemical Toxicology*, 2013, 58: 401–407.

(4) Chunlin Ke, Deliang Qiao, Jianguang Luo, Zuomei Li, Yi Sun, Hong Ye(通讯作者), Xiaoxiong Zeng. Immunostimulatory activity and structure polysaccharide from *Streptococcus equi* subsp. *Zooepidemicus*. *International Journal of Biological Macromolecules*, 2013, 57: 218–225.

(5) Renjie Xu, Hong Ye(通讯作者), Yi Sun, Youying Tu, Xiaoxiong Zeng. Preparation, preliminary characterization, antioxidant, hepatoprotective and antitumor activities of polysaccharides from the flower of tea plant (*Camellia sinensis*). *Food and Chemical Toxicology*, 2012, 50: 2473–2480.

(6) Hong Ye, Keqi Wang, Chunhong Zhou, Jun Liu, Xiaoxiong Zeng. Purification, antitumor and antioxidant activities *in vitro* of polysaccharides from the brown seaweed *Sargassum pallidum*. *Food Chemistry*, 111(2): 428-432 (2008).

(7) Hong Ye, Chunhong Zhou, Yi Sun, Xin Zhang, Jun Liu, Qihui Hu, Xiaoxiong Zeng. Antioxidant activities *in vitro* of ethanol extract from brown seaweed *Sargassum pallidum*. *Europe Food Research Technology*, 230: 101-109 (2009).

(8) Hong Ye, Chunhong Zhou, Xiaoxiong Zeng. Investigation of pollution characteristics of polychlorinated biphenyls in the typical drinking water sources in Jiangsu Province, China. *Environmental Monitoring and Assessment*, 158: 573-579 (2009).

(9) Jun Liu, Jianguang Luo, Yi Sun, Hong Ye, Zhaoxin Lu, Xiaoxiong Zeng. A simple method for the simultaneous decoloration and deproteinization of crude levan extract from *Paenibacillus*

- polymyxa EJS-3 by macroporous resin. *Bioresource Technology*, 101(15): 6077-6083 (2010).
- (10) Wei Li, Yi Sun, Hong Ye, Xiaoxiong Zeng. Synthesis of oligosaccharides with lactose and N-acetylglucosamine as substrates by using β -D-galactosidase from *Bacillus circulans*. *European Food Research and Technology*, 231(1): 55-63(2010).
- (11) Jianguang Luo, Jun Liu, Yi Sun, Hong Ye, Chunhong Zhou, Xiaoxiong Zeng. Medium optimization, preliminary characterization and antioxidant activity in vivo of mycelial polysaccharide from *Phellinus baumii* Pilát. *Carbohydrate Polymers*, 81(3):533-540 (2010).
- (12) Wenqing Xu, Lixiang Liu, Bing Hu, Yi Sun, Hong Ye, Daifu Ma, Xiaoxiong Zeng. TPC in the leaves of 116 sweet potato (*Ipomoea batatas* L.) varieties and Pushu 53 leaf extracts. *Journal of Food Composition and analysis*, 23(6): 599-604 (2010).
- (13) Bing Hu, Lin Wang, Bei Zhou, Xin Zhang, Yi Sun, Hong Ye, Liyan Zhao, Qiuhui Hu, Guoxiang Wang, Xiaoxiong Zeng. Efficient procedure for isolating methylated catechins from green tea and effective simultaneous analysis of ten catechins, three purine alkaloids, and gallic acid in tea by high-performance liquid chromatography with diode array detector. *Journal of Chromatography A*, 1216, 3223-3231 (2009).
- (14) Jianguang Luo, Jun Liu, Chunling Ke, Deliang Qiao, Hong Ye, Yi Sun, Xiaoxiong. Optimization of medium composition for the production of exopolysaccharides from *Phellinus baumii* Pilát in submerged culture and the immuno-stimulating activity of exopolysaccharides. *Carbohydrate Polymers*, 78, 409-415 (2009).
- (15) Lixiang Liu, Yi Sun, Tanguy Laura, Xingfei Liang, Hong Ye, Xiaoxiong Zeng. Determination of polyphenolic content and antioxidant activity of kudincha made from *Ilex kudingcha* C.J.Tseng. *Food Chemistry*, 112, 35-42 (2009).
- (16) Chunlin Ke, Deliang Qiao, Dan Gan, Yi Sun, Hong Ye, Xiaoxiong Zeng. Antioxidant activity in vitro and in vivo of the capsule polysaccharides from *Streptococcus equi* subsp. *Zooepidemicus*. *Carbohydrate Polymers*, 75, 677-682 (2009).
- (17) Chengliang Pan, Bing Hu, Wei Li, Yi Sun, Hong Ye, Xiaoxiong Zeng. Novel and efficient method for immobilization and stabilization of β -D-galactosidase by covalent attachment onto magnetic Fe₃O₄-Chitosan nanoparticles. *Journal of Molecular Catalysis B : Enzymatic*, 61, 208-215 (2009).
- (18) Deliang Qiao, Bing Hu, Dan Gan, Yi Sun, Hong Ye, Xiaoxiong Zeng. Extraction optimized by using response surface methodology, purification and preliminary characterization of polysaccharides from *Hyriopsis cumingii*. *Carbohydrate Polymers*, 76, 422-429 (2009).
- (19) Wei Li, Xiaoli Xiang, Shufen Tang, Bing Hu, Lin Tian, Yi Sun, Hong Ye, Xiaoxiong Zeng. Effective enzymatic synthesis of lactosucrose and its analogues by β -D-galactosidase from *Bacillus circulans*. *Journal of Agricultural and Food Chemistry*, 57, 3927-3933 (2009).
- (20) Deliang Qiao, Chunlin Ke, Bing Hu, Dan Gan, Yi Sun, Hong Ye, Xiaoxiong Zeng. Antioxidant activities of polysaccharides from *Hyriopsis cumingii*. *Carbohydrate Polymers*, 78, 199-204 (2009).
- (21) Jun Liu, Jianguang Luo, Hong Ye, Yi Sun, Zhaoxin Lu, Xiaoxiong Zeng. Production, characterization and antioxidant activities in vitro of exopolysaccharides from endophytic bacterium *Paenibacillus polymyxa* EJS-3. *Carbohydrate Polymers*, 78,275-281 (2009).