



## 师资队伍

## 海洋生物系

教授

副教授

讲师

## 海洋生物工程系

## 环境生态系

## 海洋生命科学实验教学示范中心

## 副教授

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## 党奇峰

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## 学习工作经历:

2014年12月至今: 中国海洋大学海洋生命学院海洋生物系, 副教授

2011年8月—2014年11月: 中国海洋大学海洋生命学院海洋生物系, 讲师

2006年9月—2011年6月: 中国海洋大学海洋生命学院硕博连读获理学博士学位

2002年9月—2006年6月: 中国海洋大学生命科学与技术学部本科获理学学士学位

## 科研领域描述:

主要从事海洋生物材料研究和海洋生物资源综合利用技术与开发。

海洋生物材料研究: 海洋生物活性物质的提取、表征、筛选、修饰; 基于海洋生物活性大分子的纳米材料、微米材料、膜材料、相变材料的设计、构建、表征、构效关系及作用机制的研究。

海洋生物资源综合利用技术与开发: 开展海洋动植物、海洋微生物及水产品加工副产物中活性成分的提取、筛选、设计、修饰和利用; 海洋生物功能材料在功能食品、生化制品、医用生物材料方面的应用; 海洋生物资源在食品防腐、水质净化、重金属离子吸附领域的应用。

## 代表性成果:

## 一、承担和参与的课题:

1. 主持双缓释多功能复合原位凝胶敷料的构建及创伤修复机制研究, 国家自然科学基金, 22W, 2015.01-2017.12
2. 主持水凝胶/纳米粒复方载药温敏相变敷料止血及促愈机理研究, 山东省自然科学基金, 11W, 2014.12-2017.12
3. 主持海洋生物材料构建乳腺肿瘤内注射用缓释制剂, 市南区科技发展基金项目, 10W, 2015.1-2016.12
4. 主持温敏多孔海洋生物材料制备注射型控释制剂, 青年教师专项基金, 10W, 2012-2014年
5. 参与肿瘤靶向纳米载药体系的透皮性及抗乳腺癌作用, 山东省优秀中青年科学家科研奖励基金, 8W, 2012-2014年
6. 参与海洋生物材料制备绿色食品防腐剂及其纳米自组装技术产业化开发, 江苏省科技成果转化专项资金重大项目, 600W, 2010-2014年
7. 参与壳聚糖复方水凝胶体系构建及皮肤创伤组织保护性修复, 国家国际合作项目, 100W, 2011-2013年
8. 参与海洋重要经济动物细胞长期培养体系构建, 国家国际合作项目, 123W, 2008-2011年

## 二、近5年发表论文:

1. Qi Feng Dang, Han Liu, Jing Quan Yan, Cheng Sheng Liu\*, Ya Liu, Jing Li, Jing Jing Li. Characterizations of collagen from haddock skin and wound healing properties of its hydrolysates. Biomedical materials. 2015, 10 (1): 015022.(SCI)
2. Qi Feng Dang, Jing Quan Yan, Hong Lin, Cheng Sheng Liu\*, Xi Guang Chen\*, Qiu Xia Ji, Jing Li, Ya Liu. Biological Evaluation of Chitosan-Based In Situ-Forming Hydrogel with Low Phase Transition Temperature. Journal of Applied Polymer Science. 2015, 132: 41594(SCI)
3. Jinping Cai, Qifeng Dang\*, Chengsheng Liu\*, Bing Fan, Jingquan Yan, Yanyan Xu, Jingjing Li. Preparation and characterization of N-benzoyl-O-acetyl-chitosan. International Journal of Biological Macromolecules. 2015, 77:52-58.(SCI)
4. Jinping Cai, Qifeng Dang\*, Chengsheng Liu\*, Teng Wang, Bing Fan, Jingquan Yan, Yanyan Xu. Preparation, characterization and antibacterial activity of O-acetyl-chitosan-N-2-hydroxypropyl trimethyl ammonium chloride. International Journal of Biological Macromolecules. 2015, 80: 8-15(SCI)
5. Yanyan Xu, Qifeng Dang\*, Chengsheng Liu\*, Jingquan Yan, Bing Fan, Jinping Cai, Jingjing Li. Preparation and characterization of

- carboxyl-functionalized chitosanmagnetic microspheres and submicrospheres for Pb<sup>2+</sup> removal. *Colloids and Surfaces A: Physicochem. Eng. Aspects*. 2015, 482: 353–364.
6. Lei Song, **Qifeng Dang**\*, Chengsheng Liu\*, Lejun Yu, Ran Zhang, Yujie Wang, Dejun Yu. Preparation of N,O-carboxymethyl chitosan resin and its adsorption for heavy metal ion. *Journal of Functional Materials*. 2013,21(44), 3081-3084. (EI)
  7. Yujie Wang, **Qifeng Dang**\*, Huiqin Wan, Chengsheng Liu\*, Ze Xue, Bing Fan, Jinping Cai, Yanyan Xu, Dejun Yu. Preparation and performance study of the injectable thermo-sensitive chitosan-based complexity. *Journal of Functional Materials*. 2014, 45 (B06):117-121. (EI)
  8. **Qi Feng Dang**, Jing Quan Yan, Yan Li, Xiao Jie Cheng, Cheng Sheng Liu, Xi Guang Chen. Chitosan Acetate as an Active Coating Material and Its Effects on the Storing of *Prunus avium* L. *Journal of Food Science*. 2010, 75: 125-131. (SCI)
  9. **Qi Feng Dang**, Jing Quan Yan, Jing Jing Li, Xiao Jie Cheng, Cheng Sheng Liu, Xi Guang Chen. Controlled gelation temperature, pore diameter and degradation of a highly porous chitosan-based hydrogel. *Carbohydrate Polymer*. 2011, 83: 171-178. (SCI)
  10. **Qi Feng Dang**, Jing Quan Yan, Hong Lin, Xi Guang Chen, Cheng Sheng Liu, Qiu Xia Ji, Jing Jing Li. Design and evaluation of a highly porous thermosensitive hydrogel with low gelation temperature as a 3D culture system for *Penaeus chinensis* lymphoid cells. *Carbohydrate Polymer*. 2012, 88: 361-368. (SCI)
  11. **Qi Feng Dang**, Shu Hua Zou, Xi Guang Chen, Cheng Sheng Liu, Jing Jing Li, Xuan Zhou, Ya Liu, Xiao Jie Cheng. Characterizations of chitosan-based highly porous hydrogel-the effects of the solvent. *Journal of Applied Polymer Science*. DOI: 10.1002/app.36681. (SCI)
  12. **Qifeng Dang**, Chengsheng Liu, Jingquan Yan, Jun Chen, Xiguang Chen. The preparation and characterization of CMCS-coated V<sub>E</sub> liposome. *Journal of Functional Materials*. 2011, 42(9): 1631-1634. (EI)
  13. Li Yuan Chen, **Qi Feng Dang**, Cheng Sheng Liu, Jun Chen, Lei Song, Xi Guang Chen. Improved dissolution and anti-inflammatory effect of ibuprofen by solid dispersion. *Frontiers of Medicine*. 2012, 6(2): 195-203.
  14. Yongheng Wang, **Qifeng Dang**, Jun Chen, Liyuan Chen, Lei Song, Chengsheng Liu. Preventive and recoverable effects of GlcNH<sub>2</sub>, GlcAc and low molecular CS against C<sub>2</sub>H<sub>5</sub>OH or CCl<sub>4</sub>-induced hepatocytes damage. *Journal of Functional Materials*. 2011,42(7):1297-1300. (EI)
  15. Liyuan Chen, **Qifeng Dang**, Chengsheng Liu\*, Jun Chen, Lei Song, Bing Fan, Xiguang Chen. Preparation and performance study of chitosan microspheres loaded solid dispersion. *Journal of Functional Materials*. 2012,43(13): 1762-1769. (EI)
  16. Ya Liu, Xiao Jie Cheng, **Qi Feng Dang**, Fang Kui Ma, Xi Guang Chen, Hyun Jin Park, Bum Keun Kim. Preparation and evaluation of oleoyl-carboxymethyl-chitosan (OCMCS) nanoparticles as oral protein carriers. *Journal of Materials Science-Materials in Medicine*. 2012,23:375-384. (SCI)
  17. Ya Liu, Hui Di Zang, Ming Kong, Fang Kui Ma, **Qi Feng Dang**, Xiao Jie Cheng, Qiu Xia Ji, Xi Guang Chen. In vitro evaluation of mucoadhesion and permeation enhancement of polymeric amphiphilic nanoparticles. *Carbohydrate Polymers*. 2012, 89: 453-460. (SCI)
  18. Jing Li, Ming Kong, Xiao Jie Cheng, **Qi Feng Dang**, Xuan Zhou, Ya Nan Wei, Xi Guang Chen. Preparation of biocompatible chitosan grafted poly(lactic acid) nanoparticles. *International Journal of Biological Macromolecules*. 2012, 51(3): 221– 227. (SCI)

### 三、专利：

- 1.刘成圣, 陈西广, **党奇峰**, 高辉, 郭孝波, 范冰. 养殖水体水质净化的微生物颗粒制剂及制备方法. 申请号: 201210367357.4. 专利号: ZL201210367357.4, 授权公告日2014-08-06
- 2.刘成圣, **党奇峰**, 宋磊, 王玉杰, 于德君. 一种以壳寡糖为致孔剂的重金属离子吸附树脂的制备方法. 申请号: 201210249888.3. 专利号: ZL201210249888.3, 授权公告日: 2014年7月9号
- 3.刘成圣, **党奇峰**, 胡莉, 颜景泉, 陈西广. 一种抗氧化鱼油微胶囊的制备方法. 2011年8月18日. 已授权. 申请号: 201110236739.9. 专利号: ZL 201110236739.9. 授权公告日: 2012年10月31日
- 4.刘成圣, 党奇峰, 于德君, 高辉, 郭孝波, 范冰. 一种6-氨基乙胺基-6-脱氧壳聚糖的制备方法. 申请号: 201410382609.X. 受理日期: 2014/08/06

### Curriculum Vitae

**Name:** Qifeng Dang

**Title:** Dr & Associate professor

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Tel: 0532-82031879

Address: College of Marine Life Science, Ocean University of China, 5# Yushan Road, Qingdao, P.R.China,

### Experiences:

2014.12-now, Ocean University of China, Associate professor

2011.08-2014.11, Ocean University of China, lecturer

2006.09-2011.06, Ocean University of China, Biochemistry and Molecular Biology, D.Sc

2002.09-2006.06, Ocean University of China, Biologic Technology, B.Sc.

### Research Interests:

#### Marine biomaterials:

Isolation and characterizations of polysaccharides come from a variety of marine sources.

Biological activities investigation of marine biomaterials, such as anticoagulant, antibacterial activity, antifungal activity, moisture retention, hygroscopicity, promote healing, act.

Design of a series of delivery systems based on marine biomaterials such as nanoparticles, nanomembranes, nanocapsules, nanotubes, nanofiber, microcapsules, microspheres and phase-change materials.

#### Marine living resources complex utilization:

Bioactive constituents come from marine organisms and aquatic product processing offal: isolation, preparation, screening, modification and characterization;

Application of marine living resource in water purification, food preservation and heavy metal ions adsorption.

### Achievements:

#### 1. Scientific research topics:

- 1) Principal investigator. Preparation of dual-release multifunctional in situ formed composite hydrogel dressing and its wound repair mechanism. The National Natural Science Foundation of China. 2015.01-2017.12, 22W.
- 2) Principal investigator. Promote wound hemostasis and healing mechanism of hydrogel/nanoparticle composite drug delivery. 2014.12-2017.12, 11W.
- 3) Principal investigator. Preparation of nanoparticle-hydrogel composite as sustained-release injectable delivery system for intratumoral chemotherapy of breast cancer. Science and Technology development Funds of Qingdao Shinan. 2015.1-2016.12, 10W.
- 4) Principal investigator. The preparation of porous thermosensitive marine biomaterial as injectable delivery system. Special Research Foundation of Young teachers. 2012-2014, 10W.
- 5) Co-investigator, Skin permeability and anti-breast cancer activity of tumor targeting nano drug carrier system. The Young Scientists Award Fund of Shandong Province. 2012-2014, 8W.
- 6) Co-investigator, Development of self-assembly and nanotechnology of marine biomaterials as green food preservatives. Special funds for major projects to the transformation of scientific and technological achievements of Jiangsu Province. 2010-2014, 600W.
- 7) Co-investigator. Preparation of chitosan-based composite hydrogel and its effective application on wound tissue repair. Projects of International Cooperation and Exchanges. 2011-2013, 100W.
- 8) Co-investigator. Design of an important marine economic animal long-term culture system. Projects of International Cooperation and Exchanges. 2008-2011. 123W.

### 2. Publications selected:

- 1) **Qi Feng Dang**, Han Liu, Jing Quan Yan, Cheng Sheng Liu\*, Ya Liu, Jing Li, Jing Jing Li. Characterizations of collagen from haddock skin and wound healing properties of its hydrolysates. *Biomedical materials*. 2015, 10 (1) : 015022.(**SCI**)
- 2) **Qi Feng Dang**, Jing Quan Yan, Hong Lin, Cheng Sheng Liu\*, Xi Guang Chen\*, Qiu Xia Ji, Jing Li, Ya Liu. Biological Evaluation of Chitosan-Based In Situ-Forming Hydrogel with Low Phase Transition Temperature. *Journal of Applied Polymer Science*. 2015, 132: 41594(**SCI**)
- 3) Jinping Cai, **Qifeng Dang**\*, Chengsheng Liu\*, Bing Fan, Jingquan, Yan, Yanyan Xu, Jingjing Li. Preparation and characterization of N-benzoyl-O-acetyl-chitosan. *International Journal of Biological Macromolecules*. 2015, 77:52-58.(**SCI**)
- 4) Jinping Cai, **Qifeng Dang**\*, Chengsheng Liu\*, Teng Wang, Bing Fan, Jingquan Yan, Yanyan Xu. Preparation, characterization and antibacterial activity of O-acetyl-chitosan-N-2-hydroxypropyl trimethyl ammonium chloride. *International Journal of Biological Macromolecules*. 2015, 80: 8-15(**SCI**)
- 5) Yanyan Xu, **Qifeng Dang**\*, Chengsheng Liu\*, Jingquan Yan, Bing Fan, Jinping Cai, Jingjing Li. Preparation and characterization of carboxyl-functionalized chitosan magnetic microspheres and submicrospheres for Pb<sup>2+</sup> removal. *Colloids and Surfaces A: Physicochem. Eng. Aspects*. 2015, 482: 353-364.
- 6) Lei Song, **Qifeng Dang**\*, Chengsheng Liu\*, Lejun Yu, Ran Zhang, Yujie Wang, Dejun Yu. Preparation of N,O-carboxymethyl chitosan resin and its adsorption for heavy metal ion. *Journal of Functional Materials*. 2013,21(44), 3081-3084. (**EI**)
- 7) Yujie Wang, **Qifeng Dang**\*, Huiqin Wan, Chengsheng Liu\*, Ze Xue, Jinping Cai, Yanyan Xu, Dejun Yu. Preparation and in vitro performance study of the thermosensitive chitosan-based complexity for intratumoral drug delivery. *Journal of Functional Materials*. (Accept.**EI**)
- 8) **Qi Feng Dang**, Jing Quan Yan, Yan Li, Xiao Jie Cheng, Cheng Sheng Liu, Xi Guang Chen. Chitosan Acetate as an Active Coating Material and Its Effects on the Storing of *Prunus avium* L. *Journal of Food Science*. 2010, 75: 125-131.(**SCI**)
- 9) **Qi Feng Dang**, Jing Quan Yan, Jing Jing Li, Xiao Jie Cheng, Cheng Sheng Liu, Xi Guang Chen. Controlled gelation temperature, pore diameter and degradation of a highly porous chitosan-based hydrogel. *Carbohydrate Polymer*. 2011, 83: 171-178.(**SCI**)
- 10) **Qi Feng Dang**, Jing Quan Yan, Hong Lin, Xi Guang Chen, Cheng Sheng Liu, Qiu Xia Ji, Jing Jing Li. Design and evaluation of a highly porous thermosensitive hydrogel with low gelation temperature as a 3D culture system for *Penaeus chinensis* lymphoid cells. *Carbohydrate Polymer*. 2012, 88: 361-368.(**SCI**)
- 11) **Qi Feng Dang**, Shu Hua Zou, Xi Guang Chen, Cheng Sheng Liu, Jing Jing Li, Xuan Zhou, Ya Liu, Xiao Jie Cheng. Characterizations of chitosan-based highly porous hydrogel-the effects of the solvent. *Journal of Applied Polymer Science*. DOI: 10.1002/app.36681. (**SCI**)
- 12) **Qifeng Dang**, Chengsheng Liu, Jingquan Yan, Jun Chen, Xiguang Chen. The preparation and characterization of CMCS-coated V<sub>E</sub> liposome. *Journal of Functional Materials*. 2011, 42(9): 1631-1634. (**EI**)
- 13) Li Yuan Chen, **Qi Feng Dang**, Cheng Sheng Liu, Jun Chen, Lei Song, Xi Guang Chen. Improved dissolution and anti-inflammatory effect of ibuprofen by solid dispersion. *Frontiers of Medicine*. 2012, 6(2): 195-203.
- 14) Yongheng Wang, **Qifeng Dang**, Jun Chen, Liyuan Chen, Lei Song, Chengsheng Liu. Preventive and recoverable effects of GlcNH<sub>2</sub>, GlcAc and low molecular CS against C<sub>2</sub>H<sub>5</sub>OH or CCl<sub>4</sub>-induced hepatocytes damage. *Journal of Functional Materials*. 2011,42(7):1297-1300. (**EI**)
- 15) Liyuan Chen, **Qifeng Dang**, Chengsheng Liu\*, Jun Chen, Lei Song, Bing Fan, Xiguang Chen. Preparation and performance study of chitosan microspheres loaded solid dispersion. *Journal of Functional Materials*. 2012,43(13): 1762-1769. (**EI**)
- 16) Ya Liu, Xiao Jie Cheng, **Qi Feng Dang**, Fang Kui Ma, Xi Guang Chen, Hyun Jin Park, Bum Keun Kim. Preparation and evaluation of oleoyl-carboxymethyl-chitosan (OCMCS) nanoparticles as oral protein carriers. *Journal of Materials Science-Materials in Medicine*. 2012,23:375-384.(**SCI**)
- 17) Ya Liu, Hui Di Zang, Ming Kong, Fang Kui Ma, **Qi Feng Dang**, Xiao Jie Cheng, Qiu Xia Ji, Xi Guang Chen. In vitro evaluation of mucoadhesion and permeation enhancement of polymeric amphiphilic nanoparticles. *Carbohydrate Polymers*. 2012, 89: 453-460.(**SCI**)
- 18) Jing Li, Ming Kong, Xiao Jie Cheng, **Qi Feng Dang**, Xuan Zhou, Ya Nan Wei, Xi Guang Chen. Preparation of biocompatible chitosan grafted poly(lactic acid) nanoparticles. *International Journal of Biological Macromolecules*. 2012, 51(3): 221-227.(**SCI**)

### 3. Patents:

- 1) Chengsheng Liu, Xiguang Chen, **Qifeng Dang**, Hui Gao, Xiaobo Guo, Bing Fan. A preparation method of microorganism-based granular formulation for purification of water. Authorize. Patent No. ZL201210367357.4.
- 2) Chengsheng Liu, **Qifeng Dang**, Lei Song, Yujie Wang, Dejun Yu. A preparation method of adsorption resins for heavy metal ions with chitosan oligosaccharide as pore forming agent. Authorize. Patent No. ZL201210249888.3.
- 3) Chengsheng Liu, **Qifeng Dang**, Li Hu, Jingquan Yan, Xiguang Chen. A preparation method of antioxidant fish oil microcapsule. Authorize. Patent No. ZL 201110236739.9.
- 4) Chengsheng Liu, **Qifeng Dang**, Dejun Yu, Hui Gao, Xiaobo Guo, Bing Fan, A preparation method of 6-aminoethylamino-6-deoxy chitosan. Acceptance. Patent No. 201410382609.X

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