

当前位置：首页 (<http://www.nanoctr.cas.cn/sy2017/>) > / 人才队伍 (<http://www.nanoctr.cas.cn/rcdw2017/>)

## 人才队伍

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- > 青年创新促进会 (<http://www.nanoctr.cas.cn/rcdw2017/qch2017/>)

## 人才队伍

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### 简历：

聂广军，中科院特聘研究员，国科大特聘教授；科技部纳米研究国家重大科学研究计划（973）项目首席科学家（2012-2016），国家重点研发计划首席科学家（2018-2022）；国务院享受政府特殊津贴专家；基金委创新群体、中科院创新交叉团队、中科院卢嘉锡国际团队成员；2016年获中国药学会以岭药业青年科学家奖，美国Houston Methodist Research Institute（休斯敦）兼职教授，英国医学科学院Advanced Newton Scholar；中国生物物理学会常务理事，中国抗癌协会纳米肿瘤学专业委员会委员，中国药学会纳米药物专业委员会委员；国家纳米科学中心科技处处长；Nano Letters 副主编。

2002年于中国科学院生物物理所获得博士学位，之后在加拿大McGill大学从事博士后研究。2008年回国在国家纳米科学中心建立了“纳米生物学和纳米生物材料”实验室，组建了一个多学科交叉研究团队。课题组现有研究员3名，副研究员3名，助理研究员2名，博新计划博士后2名。课题组已先后获得几十项各类科研资助，主持了多项科技部、基金委、中科院、北京市科委、国际合作项目以及横向合作项目等。与美国、英国、澳大利亚及加拿大等纳米医学和生命科学的多个著名实验室建立了良好的合作关系，先后与6位中科院特聘访问教授开展科研合作。课题组先后培养19名博士、8名博士后、17名硕士。先后获得中国科学院优秀导师奖、中国科学院SABIC-CAS奖学金导师奖、中国科学院澳大利亚必和必拓（BHP Billiton）导师科研奖等教学奖。获得天津市科技进步公益类一等奖、中国抗癌协会科技奖一等奖等奖项。

在Nature Biotechnology, Nature Biomedical Engineering, Nature Communications, Blood, JACS, JBC, Angew Chem Int Ed, Adv Mater, Nano Letters, ACS Nano, Adv Funct Mater, Biomaterials, Haematologica, Brit J Haematol, Antioxid Redox Sign, Cancer Letters, Small和Nanomedicine等发表论文140余篇；申请抗肿瘤应用等相关发明专利40余项（授权中国专利20余项，美国授权专利3项，日本专利1项，专利转让2项）。相关研究成果被Nature Biotechnology, Nature Materials, Nature Biomedical Engineering, Nature Reviews of Cancer, Science Translational Medicine和Blood等进行了重点推荐和报道。

### 研究领域：

课题组主要结合现代生物学、药学、化学、生物材料以及纳米技术和生物技术手段，研究纳米和生物界面相互作用的基本规律，以及新型纳米材料在生物医学领域的应用。研究领域主要包括肿瘤纳米生物学、纳米生物技术和纳米生物效应等。主要从事的研究方向包括：

- 1) 肿瘤微环境调控的智能纳米药物；
- 2) 膜泡系统的纳米生物效应和药物递送；
- 3) 生物分子指导的功能性纳米材料设计、构筑和自组装；
- 4) 发展基于纳米技术和生物技术的代谢疾病和退行性疾病的新颖治疗策略；

## 代表论著：

2017-2018代表性论文：

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2. Suping Li, Yinlong Zhang, Jing Wang, Ying Zhao, Tianjiao Ji, Xiao Zhao, Yanping Ding, Xiaozheng Zhao, Ruifang Zhao, Feng Li, Xiao Yang, Shaoli Liu, Zhaofei Liu, Jianhao Lai, Andrew K. Whittaker (<http://profiles.spiedigitallibrary.org/summary.aspx?DOI=10.1117%2f12.916744&Name=Andrew+K.+Whittaker>), Gregory J Anderson, Jingyan Wei, **Guangjun Nie\***, Nanoparticle-enabled local depletion of tumor-associated platelets enhances anti-tumor efficacy of chemotherapeutics, *Nature Biomedical Engineering*, 2017, 1, 667-679.
3. Xuexiang Han, Yiye Li\*, Ying Xu, Xiao Zhao, Yinlong Zhang, Xiao Yang, Yongwei Wang, Ruifang Zhao, Gregory J. Anderson, Yuliang Zhao\*, and **Guangjun Nie\***, Reversal of pancreatic desmoplasia by re-educating stellate cells with a tumour microenvironment-activated nanosystem, *Nature Communications*, in press
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5. Yi Yuan, Chong Du, Cuiji Sun, Jin Zhu, Shan Wu, Yinlong Zhang, Tianjiao Ji, Jianlin Lei, Yinmo Yang, Ning Gao and **Guangjun Nie**, Chaperonin-GroEL as a smart hydrophobic drug delivery and tumor targeting molecular machine for tumor therapy, *Nano Letters*, 2018, 18(2):921-928.
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8. Ruifang Zhao, Xuexiang Han, Yiye Li, Hai Wang, Tianjiao Ji, Yuliang Zhao **Guangjun Nie**, Photothermal Effect Enhanced Cascade-Targeting Strategy for Improved Pancreatic Cancer Therapy by Gold Nanoshell@Mesoporous Silica Nanorod, (<https://www.ncbi.nlm.nih.gov/pubmed/28738680>) *ACS Nano*, 2017, 11(8):8103-8113.
9. Tianjiao Ji, Jiayan Lang, Jing Wang, Rong Cai, Yinlong Zhang, Feifei Qi, Xiao Zhao, Jihui Hao, Ying Zhao, **Guangjun Nie**, Fine-tuned Co-assembly of Peptide-hybrid Liposomes for Site-Specific Regulation of Tumor Stroma for Enhanced Drug Penetration and Pancreatic Tumor Chemotherapy, *ACS Nano*, 2017 11(9):8668-8678.
10. Chao Liu, Jiayi Guo, Fei Tian, Na Yang, Fusheng Yan, Yanping Ding, Jingyan Wei, Guoqing Hu\*, **Guangjun Nie\***, Jiashu Sun\*, Field-Free Isolation of Exosomes from Extracellular Vesicles by Microfluidic Viscoelastic Flows, *ACS Nano*, 11(7):6968-6976.
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**承担科研项目情况：**

基于肿瘤微环境调控的抗肿瘤纳米材料设计和机制研究（国家重点基础研究发展计划973计划项目），首席科学家  
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