

科研课题、获奖、论文、专著及专利

近五年，中心教师主持国家自然科学基金 42 项，其中国际合作课题 2 项，主持省部级科研基金 48 项、校企横向合作课题 15 项，总计获得科研经费 3300.57 万元；发表论文 266 篇，其中 SCI 论文 217 篇；获得专利 19 项。

承担课题情况一览表

国家级课题

序号	课题	项目负责人	项目	时间
1	与幼年型粒单细胞性白血病相关的 SHP2 突变体 E76K、D61G 选择性抑制剂的设计、合成及其活性研究	王润玲	国家自然科学基金	2018.1-2021.12
2	掺杂剂介导的液晶印迹手性传递色谱固定相的构建及其研究	黄艳萍	国家自然科学基金	2018.1-2021.12
3	基于 p7 三维核磁结构抗丙肝病毒抑制剂研究	王树青	国家自然科学基金	2018.1-2021.12
4	抗肿瘤转移先导化合物 ION-31a 的衍生合成、分子机制及靶点研究	段宏泉	国家自然科学基金	2017.1-2020.12
5	STELB 抑制胶质母细胞瘤的作用、分子机制及靶点研究	孔德新	国家自然科学基金	2017.1-2020.12
6	通过 IgE 受体 Fc ϵ RI 激活的肥大细胞抑制乳腺癌生长的作用及机理研究	金美花	国家自然科学基金	2017.1-2020.12
7	靶向抑制 PI3K 联合 Imatinib 在 BCR-ABL 介导的慢性粒细胞白血病中药物协同机制研究	邱玉玲	国家自然科学基金	2017.1-2019.12
8	基于可逆反应与谱线比例方式检测谷胱甘肽新型 EPR 探针的设计、合成及性能研究	韩贵芳	国家自然科学基金	2017.1-2019.12
9	小肠靶向释放 NO 前药作为 P-gp 抑制剂促进 P-gp 底物药物口服吸收的研究	侯静丽	国家自然科学基金	2017.1-2019.12
10	基于胶体晶体为牺牲模板制备三维有序大孔结构分子印迹色谱固定相的研究	王涎桦	国家自然科学基金	2017.1-2019.12
11	融合智能递药及干细胞组织工程技术的肢体缺血再生治疗	贺慧宁	国家自然科学基金	2016.12-2019.12
12	以 SHP2 为靶点的抗白血病药物的设计、合成及活性筛选	王润玲	国家自然科学基金	2016.1-2018.12
13	联合声动力、化疗与免疫疗法的多功能纳米治疗体系的构建及其靶向抗肝癌作用研究	王银松	国家自然科学基金	2016.1-2019.12

14	新型双自由基氧化还原探针的开发及性能研究	刘阳平	国家自然科学基金	2016.1-2019.12
15	基于 trityl 自由基的超氧自旋捕捉剂的分子设计、合成及性能研究	宋玉光	国家自然科学基金	2016.1-2018.12
16	肿瘤细胞外膜蛋白 MMP-14 提高透膜性细胞穿透肽共轭物膜外周选择性富集的研究	孙璐	国家自然科学基金	2015.1-2017.12
17	基于肿瘤靶向及特异性激活的“前药”性大分子药物给药系统治疗结肠癌的研究	贺慧宁	国家自然科学基金	2015.1-2017.12
18	针对多药耐药肿瘤的可视化 pH 敏感主动靶向给药系统的研究	高薇	国家自然科学基金	2015.1-2017.12
19	基于“Build-and-Click”法的铂类 RNA 聚合酶 I 选择性抑制剂的构建、评价	乔鑫	国家自然科学基金	2015.1-2017.12
20	新型微柱细胞膜色谱及其在抗体类药物质量控制中的应用	徐亮	国家自然科学基金	2015.1-2017.12
21	铃蟾抗肿瘤活性多肽的提取及其作用机制的探讨	王冉	国家自然科学基金	2015.1-2017.12
22	构建双靶向稀土上转换纳米探针用于肿瘤成像与治疗	王旭	国家自然科学基金	2015.1-2017.12
23	以小分子探针研究靶向 PI3K 亚型抑制前列腺癌转移的作用和多重分子机理	孔德新	国家自然科学基金	2014.1-2017.12
24	双重响应的基金/化疗药物共载时序释放纳米递送体系靶向抗肝癌研究	王银松	国家自然科学基金	2014.1-2017.12
25	基于调节趋化运动的解毒中药治疗乳腺癌转移的机制研究	董林毅	国家自然科学基金	2014.1-2016.12
26	基于物理交联的液晶分子印迹色谱固定相设计、合成及手性药物分离研究	黄艳萍	国家自然科学基金	2014.1-2017.12
27	铂类组蛋白去乙酰化酶抑制剂的设计合成、活性评价及其靶向作用研究	徐靖源	国家自然科学基金	2014.1-2017.12
28	仿生荧光 DNA 纳米管及其作为药物传递纳米载体的应用	沈万秋	国家自然科学基金	2014.1-2017.12
29	长余辉纳米探针在淋巴瘤相关 microRNAs 的检测及荧光示踪的应用研究	张毅	国家自然科学基金	2014.1-2016.12
30	先导化合物 Fla-CN 的结构优化、抗糖尿病作用分子机制及其靶点研究	段宏泉	国家自然科学基金	2014.1-2017.12
31	基于多靶点细胞膜微柱液相色谱技术的黄精相关复方药效物质及配伍机理研究	唐铖	国家自然科学基金	2014.1-2016.12
32	基于功能性生物材料和靶向递送策略的再生医学新技术研究	杨志民	国家自然科学基金	2013.8-2018.7
33	以旋覆花内酯活性化合物为探针研究抗哮喘多重分子作用机制以及先导化合物的发现	金美花	国家自然科学基金	2013.1-2015.12
34	电子螺旋理论指导下用于 2-氨基-1-芳基乙醇类手性药物不对称合成的内手性杯[4]芳烃催化剂的研究	李韶勇	国家自然科学基金	2013.1-2016.12

35	基于 URANT1 靶点的牛尾菜总皂苷抗高尿酸血症活性成分及作用机制研究	吴晓辉	国家自然科学基金	2013.1-2015.12
36	高选择性蛋白酪氨酸磷酸酶 SHP2 抑制剂的研究	王润玲	国家自然科学基金	2013.1-2016.12
37	DNA 调控荧光金属纳米团簇应用于乳腺癌 miRNAs 检测	孙艳华	国家自然科学基金	2013.1-2015.12
38	基于 PPARs 多靶点的抗糖尿病药物设计、合成和活性研究	程先超	国家自然科学基金	2013.1-2015.12
39	含杂环的丙烯酰胺类抗乙型肝炎病毒化合物的设计、合成与生物活性研究	董卫莉	国家自然科学基金	2012.1-2014.12
40	基于氧化石墨烯的肝靶向小干扰 RNA 和抗肿瘤药物共载输送体系的研究	杨晓英	国家自然科学基金	2012.1-2014.12
41	基于“血-脑”中有效组分研究酸枣仁解郁安神整体功效的物质基础及作用机制	乔卫	国家自然科学基金	2012.1-2015.12
42	海绵 <i>jaspis stellifera</i> 中抗类风湿性关节炎化学成分及作用机制初步研究	唐生安	国家自然科学基金	2012.1-2014.12

省部级课题

序号	课题	项目负责人	项目	时间
1	酸枣仁抗抑郁失眠共病显效成分“阿朴菲型季铵生物碱—黄酮碳苷”的发现及其协同作用机制研究	乔卫	天津市科委	2017.4-2020.3
2	具有降低肿瘤耐药性及增强免疫识别功能的多靶标 Pt(IV) 前药分子研究	徐靖源	天津市科委	2017.4-2020.3
3	手性生物碱衍生物 ION-31a 抗肿瘤转移作用靶点研究和结构优化	段宏泉	天津市科委	2017.4-2020.3
4	新型 Pt(IV) 类 RNA 聚合酶 I 选择性抑制剂前药的设计、合成及其抗肿瘤活性研究	乔鑫	天津市科委	2017.4-2020.3
5	细胞膜仿生纳米探针用于 β 淀粉样肽构象转换的实时监测	王旭	天津市科委	2017.4-2020.3
6	基于分子印迹的乳癖平消方调控乳腺癌代谢机制研究	董林毅	天津市科委	2017.4-2020.3
7	可激活吡啶菁绿纳米探针在乳腺癌高选择性体内成像和靶向释药中的作用及其机制研究	陈研	天津市科委	2017.4-2020.3
8	选择性 SHP2 突变体 D61G、E76K 抑制剂研究	王润玲	天津市科委	2016.4-2019.3
9	一口钟抑制 RAFLS 增殖砧-酚加合物成分的发现及作用机制	唐生安	天津市科委	2016.4-2019.3
10	抗肿瘤转移候选化合物 QN66 的分子作用机制研究	于阳	天津市科委	2016.4-2019.3
11	基于有序孔道的分子印迹整体柱手性药物	王涎桦	天津市科委	2016.4-2019.3

	拆分研究			
12	胡椒碱与化疗药共载肝靶向纳米体系的构建及评价	李荣珊	天津市科委	2015. 4-2018. 3
13	亨氏马尾藻抗 II 型疱疹病毒的药效物质基础及作用机研究	董彩霞	天津市科委	2015. 4-2018. 3
14	可激活穿膜肽介导的 CT 对比剂用于肿瘤靶向成像的研究	杨晓英	天津市科委	2015. 4-2018. 3
15	用于常温蛋白质距离测量的自旋标记物合成及其性能研究	刘阳平	天津市科委	2015. 4-2018. 3
16	酶敏感型靶向系统用于结肠癌基因治疗的关键技术研究	贺慧宁	天津市科委	2015. 4-2018. 3
17	EPR/荧光双模态超氧探针的开发及性能研究	宋玉光	天津市科委	2015. 4-2018. 3
18	肿瘤细胞特异性蛋白酶小肽底物的细胞水平筛选研究	孙璐	天津市科委	2015. 4-2018. 3
19	基于点击化学的抗体定向固定化方法的研究	徐亮	天津市科委	2014. 4-2017. 3
20	以 ABL00 为探针研究其抗哮喘多重分子机制及协同作用	金美花	天津市科委	2013. 4-2016. 3
21	新型铂类抗肿瘤配合物的设计合成及其细胞代谢机制研究	徐靖源	天津市科委	2013. 4-2016. 3
22	体外移除血液癌细胞的抗体纳米磁球的构建和应用	杨志民	天津市科委	2012. 10-2015. 9
23	委陵菜黄酮衍生物的药效学评价和作用机制研究	乔卫	天津市科委	2012. 4-2015. 3
24	靶向抑制 PI3K 对前列腺癌转移的影响及机理研究	孔德新	天津市科委	2012. 4-2015. 3
25	转筋草抗肿瘤转移生物碱衍生合成及其构效关系研究	段宏泉	天津市科委	2011. 4-2014. 3
26	鸡血莲抗前列腺增生活性成分研究及作用机制研究	吴晓辉	教育部留学回国人员科研启动基金	2015. 8 - 2018. 8
27	熊蜂毒丝氨酸蛋白酶抗血栓作用机制	邱玉玲	教育部留学回国人员科研启动基金	2014. 1-出站
28	以旋覆花内酯活性化合物为探针研究抗哮喘多重分子作用机制	金美花	博士点新教师	2013. 1-2015. 12
29	基于神经氨酸酶结构流感病毒抑制剂的计算机辅助设计、合成及活性研究	王树青	博士点新教师	2012. 5-2015. 5
30	一口钟抗 RA 蒽-酚加合物类成分的发现及作用机制	唐生安	博士后基金	2016. 5-2018. 4
31	基于吡啶菁绿的肿瘤靶向组织蛋白酶荧光探针的研究	陈研	博士后基金	2016. 6-2018. 7
32	栎瘿酸的抗炎作用及靶点研究	金美花	博士后基金	2016. 11-2018. 7
33	双模态成像纳米探针用于胶质瘤早期诊断	王旭	博士后基金	2015. 11-2017. 3

	及原位疗效评价			
34	基于分子印迹微萃取的中药调控乳腺癌代谢机制研究	董林毅	博士后基金	2015. 8-2018. 7
35	基于 IIB 族离子荧光探针的多孔混金属配位聚合物的研究	欧阳燕	博士后基金	2014. 7-出站
36	熊蜂毒丝氨酸蛋白酶抗血栓作用机制	邱玉玲	博士后基金	2014. 6-2016. 5
37	铃蟾抗肿瘤小分子多肽的系统鉴定及其抗肿瘤活性研究	王冉	博士后基金	2014. 6-2016. 5
38	含硫脲基团氮杂环铂类配合物的抗肿瘤耐药活性研究	谢承志	博士后基金	2014. 2-2015. 6
39	基于网络多靶点的鸡血莲抗前列腺增生活性成分研究	吴晓辉	博士后基金	2014. 6 - 2016. 6
40	基于分子印记的抗癌中药代谢成分机制研究	董林毅	博士后基金	2014. 1-2015. 9
41	长余辉纳米探针在淋巴瘤相关 miRNAs 的检测及示踪的应用	张毅	博士后基金	2013. 7-2015. 6
42	寒热两种中药治疗偏头痛的相关研究	滕杰	博士后基金	2013. 9-2017. 12
43	流感病毒抑制剂的设计合成及活性	王树青	博士后基金	2013. 1-2015. 1
44	基于网络药理学探索牛尾菜总皂苷多成分多靶点的整合作用机制	吴晓辉	博士后基金	2013. 8-2015. 8
45	新型多靶点 PPARs 激动剂的设计、合成和活性研究	程先超	博士后基金	2012. 9-2014. 9
46	细胞膜毛细管色谱筛选消渴中药活性物质方法的研究	唐铖	博士后基金	2012. 7-2014. 6
47	神经氨酸酶结构靶向抑制剂的计算机辅助设计、合成及初步活性研究	王树青	博士后基金	2012. 5-2014. 3
48	基于代谢组学的止痛中药吴茱萸的研究	滕杰	博士后基金	2011. 9-2014. 12

课题获奖一览表

序号	题目	姓名	获奖名称	年度
1	胶原-多糖基功能性生物医用材料的基础研究	王银松	天津市自然科学奖二等奖	2014

发表论文情况一览表

序号	文章名称	通讯作者/ 第一作者	发表杂志及 出版时间
1	Temperature-Triggered Disintegrable Poly(N-isopropylacrylamide) Nanoparticles via Heterophase Polymerization in the Presence of Tetramethylethylenediamine and Sodium Dodecyl Sulfate	陈研	Journal of Applied Polymer Science, 2014 Sep 15;131(18)
2	Thermoresponsive ketoprofen-imprinted monolith prepared in ionic liquid	刘照胜	Analytical and Bioanalytical Chemistry, 2014, 406, 5359-5367
3	Biological evaluation of a cytotoxic 2-substituted benzimidazole copper(II) complex: DNA damage, antiproliferation and apoptotic induction activity in human cervical cancer cells	徐靖源	Biometals, 2014, 27, 155-172
4	In vitro multifaceted activities of a specific group of novel phosphatidylinositol 3-kinase inhibitors on hotspot mutant PIK3CA.	孔德新	Invest New Drugs. 2014, 32 (6): 1134-1143.
5	Inhibitory Effects of JEUD-38, a New Sesquiterpene Lactone from Inula japonica Thunb, on LPS-Induced iNOS Expression in RAW264.7 Cells	孔德新 金美花	Inflammation. 2014, 2015;38(3):941-8.
6	AS252424, a PI3K Inflammatory Responsiveness in Mouse Bone Marrow-Derived Mast Cells. □ I	孔德新	Inflammation, 2014, 37: 1254-1260.
7	Cell-Penetrating Peptides Meditated Encapsulation of Protein Therapeutics into Intact Red Blood Cells and its Application.	杨志民	Journal of Controlled Release, 2014, 176: pp123-132
8	Low molecular weight protamine (LMWP): a nontoxic protamine substitute and an effective cell-penetrating peptide.	杨志民	Journal of Controlled Release, 2014, 193: pp63 - 73.
9	Nuclease activity and protein-binding properties of a novel tetranuclear thiosemicarbazide Pt(II) complex	徐靖源	Dalton Trans. 2014, 43, 1663-1671
10	Two polypyridyl copper(II) complexes: synthesis, crystal structure and interaction with DNA and serum protein in vitro	徐靖源	New J. Chem. 2014, 38, 955-965
11	Anti-inflammatory terpenes from flowers of Inula japonica	金美花	Planta Med. 2014 ;80(7):583-9
12	Syntheses, Crystal Structures, and DNA Bindings of Co(III) and Ni(II) Complexes Based on	徐靖源 谢承志	Synthesis and Reactivity in

	2,6-Bis(benzimidazol-2-yl)-4-hydroxypyridine Ligand.		Inorganic, Metal-Organic, and Nano-Metal Chemistry, 2014, 44, 1175-1182
13	Molecular cloning of a novel tryptophyllin peptide from the skin of the orange-legged monkey frog, <i>Phyllomedusa hypochondrialis</i>	王冉	Chem Biol Drug Des. 2014; 83(6):731-40.
14	In vitro Antitumor Activity of Stellettin B, a Triterpene from Marine Sponge <i>Jaspis stellifera</i> , on Human Glioblastoma Cancer SF295 Cells.	孔德新	Mar Drugs. 2014, 12: 4200-4213.
15	Thiosemicarbazone Cu(II) and Zn(II) complexes as potential anticancer agents: Syntheses, crystal structure, DNA cleavage, cytotoxicity and apoptosis induction activity	徐靖源	Journal of Inorganic Biochemistry, 2014, 136, 13-23
16	Construction of supramolecular nanofibers through electrostatic interaction between perylene and cholesterol derivatives	段宏泉	Chinese Chemical Letters, Volume 25, Issue 1, January 2014, 51-54;
17	Anti-inflammatory Terpenes from Flowers of <i>Inula Japonica</i>	金美花 段宏泉	Planta Medica, 2014, 80, 583-589.
18	Antitumor metastasis pregnane alkaloids from <i>Pachysandra terminalis</i>	段宏泉	J Asian Nat Prod Res, 2014;16(5): 440-6
19	Synthesis and Antitumor Invasive Activity of Novel Ionone Alkaloid Derivatives	段宏泉	Letters in Drug Design & Discovery, 2014, 11:395-402
20	Synthesis and Antimetastatic Effects of E-Salignone Amide Derivatives	段宏泉	Drug Dev Res, 2014 Mar;75(2):76-87
21	Jaspiferins C-F, four new isomalabaricane-type triterpenoids from the South China Sea sponge <i>Jaspis stellifera</i>	唐生安	Journal of Asian Natural Products Research, 2014, 16 (5), 427-433
22	Novel polyhydroxylated steroids from the East China Sea gorgonian <i>Echinogorgia sassapora reticulata</i> with suppressive activity of leukotriene C4 generation and degranulation in bone marrow-derived mast cells	唐生安	Journal of Asian Natural Products Research, 2014, 16 (4), 351-357
23	A New Aurone from <i>Smilax riparia</i>	唐生安 段宏泉	Chemistry of Natural Compounds, 2014, 50 (6), 989-993
24	Synthesis and Antimetastatic Effect of E-salignone	段宏泉	Chemistry of Natural Compounds, 2014, 50 (4) :697-701

25	Synthesis of imprinted monolithic column with high content of monomers in ionic liquid	黄艳萍	RSC Advances, 2014, 4, 50662–50667
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9	乔卫	酸枣仁生物碱单体成分酸李碱及其制备方法与应用（发明专利）	2015. 11
10	段宏泉	黄酮衍生物、制备方法及其医药用途 PCT/CN/2010/001818（国际发明专利美国专利授权）	2015. 2
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14	刘照胜	西替利嗪分子印迹整体柱及其制备方法（发明专利）	2016. 4
15	刘照胜	一种手性分子作为掺杂剂制备液晶分子印迹整体柱的方法（发明专利）	2016. 3
16	刘照胜	高单体含量的分子印迹整体柱与制备方法（发明专利）	2016. 2
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