



# Beijing

# 北京



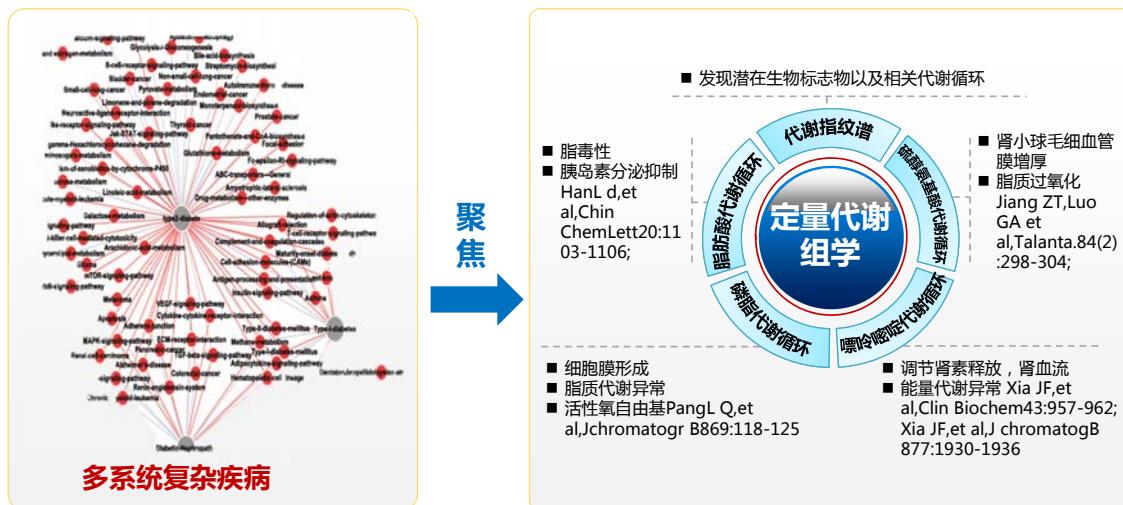
## China-Japan Friendship Hospital Ping Li



### Member Institutes from Beijing, PR. China

1. Tsinghua University
2. Peking University
3. Chinese Academy of Medical Sciences & Peking Union Medical College
4. China Academy of Chinese Medical Science
5. Beijing University of Chinese Medicine
6. PLA Institute of Chinese Materia Medica
7. Beijing Cancer Hospital & Institute
8. Beijing Technology and Business University
9. China-Japan Friendship Hospital
10. Institute of Microbiology, CAS
11. National Engineering Research Center for Crop Molecular Design

## Development of the methodology of Quantitative metabonomics for TCM



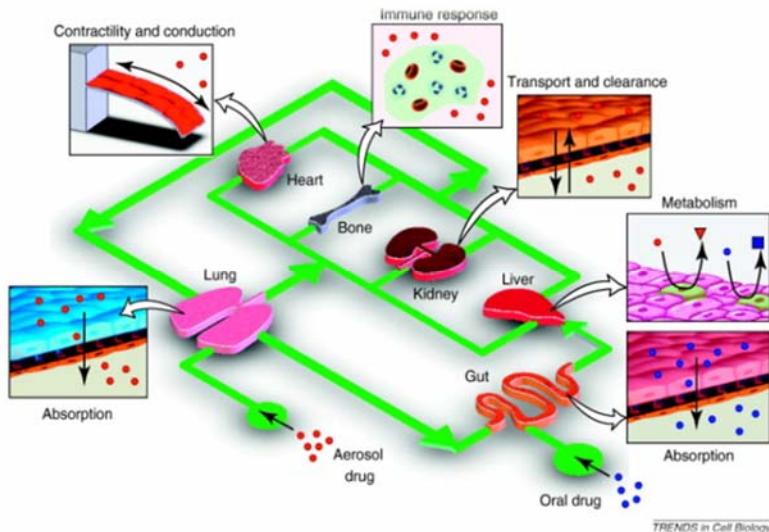
建立的方法平台已应用于糖尿病、糖尿病肾病、冠心病、中风等中医辨证分型和中医药疗效评价研究，发表SCI论文近百篇，单篇最高引用超百次。其中与北京中日友好医院合作开展的糖尿病肾病研究成果候选2016年国家科技进步二等奖。

## Development of the methodology of quality control and quality standard for TCM



其中与河北神威药业合作开展的中药注射剂质控体系研究成果获得2014年国家科技进步二等奖。

## Development of frontier technology of human-on-a-chip for drug screening and safety assessment



2013年主持启动国内该领域第一个国家重大专项课题，“仿生微流控芯片新药研究开发关键技术研究”。该课题已申请专利20余项，发表SCI论文50余篇，其中包括PNAS、Anal Chem、lab on a chip等IF>5论文近20篇。

Institute of Chinese Materia Medica  
China Academy of Chinese Medical Sciences

## 创建全新中草药DNA条形码物种鉴定体系



# Institute of Chinese Materia Medica China Academy of Chinese Medical Sciences

## 2016年国家科学技术进步二等奖 “中草药DNA条形码物种鉴定体系”

- 创建全新中药DNA条形码鉴定体系并纳入《中国药典》
- 鉴定系统在国内外860余家研究检验机构和企业公司应用
- 英国药典委BP专家到课题组实验室进修学习
- 美国药典委中草中草药DNA条码进入美国药典事宜
- 多次应邀在美国药典委员会、欧洲药品质量管理局（EDQM）、韩国生药学会、日本科研机构等介绍中草药DNA条形码鉴定体系

构建全球最大160万条序列中药DNA条形码数据库及鉴定平台

“中草药DNA条形码鉴定体系” Biotech Adv 2014 (IF 11.2\*)

“植物条形码研究从基因到基因组” Biol Rev 2014 ( IF 10.2\*)



- 2014年度中华中医药学会自然科学奖一等奖
- 2014年度教育部高等学校科学研究优秀成果奖科技进步一等奖
- 2016年度国家科技进步二等奖



## 突出中药原创优势 广泛开展国际合作

2004年 至今：

50个国际合作项目及对台项目立项 累计获资助经费1500余万元

### ■ 科技部国际合作项目20项 建立全球中药研究合作网络

- 俄罗斯 意大利 韩国 日本 挪威 奥地利 巴基斯坦
- 匈牙利 捷克 埃及 南非 泰国 意大利

### ■ 世界卫生组织（WHO）项目 国务院台湾事务办公室项目

### ■ 中法国际科技合作项目 欧亚太平洋学术联盟合作项目



菲律宾



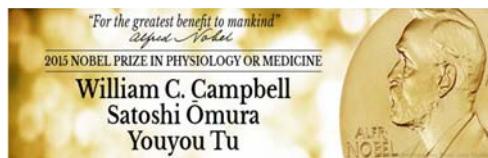
2016年7月

与奥地利格拉茨大学共签署了合作协议 积极推进共建联合实验室

研究内容：

- 中药质量评价及活性物质基础
- 中药安全性安全性和生物功能表征等

## 青蒿素——源自中草药园的抗疟I类新药



- ◆ 2015年度 屠呦呦获诺贝尔生理学或医学奖
- ◆ 2015年度 屠呦呦获哈佛大学医学院华伦·阿尔波特奖 “发现了青蒿素——一种治疗疟疾的药物，在全球特别是发展中国家挽救了数百万人的生命”
- ◆ 2011年度 屠呦呦获拉斯克-狄贝基临床医学研究奖

## 双氢青蒿素——临床适应症扩展——治疗红斑狼疮获临床批件



## Guang'anmen Hospital (GAM)



广安门医院

- ◆ Founded in 1955 as an affiliated hospital of China Academy of Traditional Chinese Medicine (TCM)
- ◆ A general hospital of TCM conducting clinical practice, scientific research and teaching
- ◆ As the national demonstration of Traditional Chinese Medicine hospital and the central base of cadre health care



- ◆ 12 key disciplines of State Administration of Traditional Chinese Medicine (SATCM)
- ◆ 5 laboratories approved as the third grade research room by SATCM
- ◆ 2 key research rooms of SATCM

# Guang'anmen Hospital (GAM)

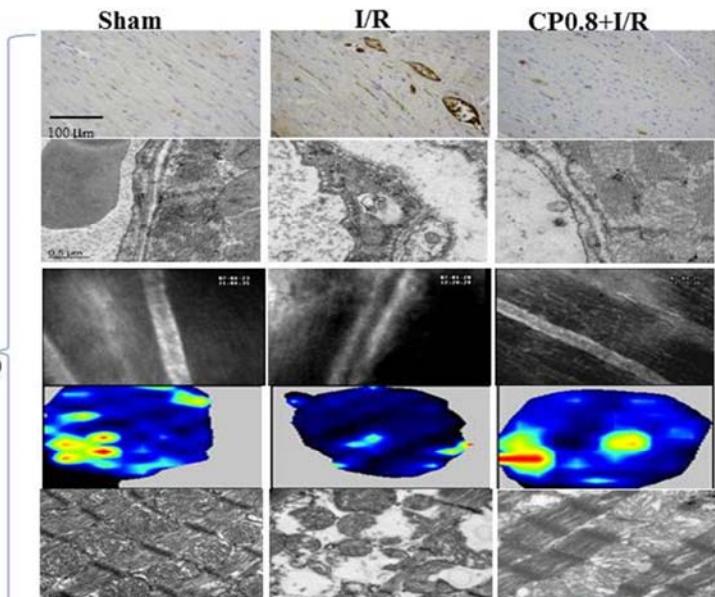


- ◆ 233 on-going research projects
  - 91 national level projects
  - 49 ministerial and bureau level projects
  - 53 city-level projects
  - 40 academy-level projects.
- ◆ 164 scientific research achievements.
  - 13 projects won the National Science and Technology Progress Award
  - 135 projects acquired provincial level and ministerial level awards.
- ◆ 9 new herbal preparations' diplomas
- ◆ 40 national patents
- ◆ In 2015, it has published 752 academic papers, including 109 SCI papers.

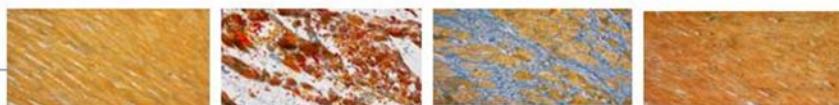


复方丹参滴丸

Am J Physiol Heart Circ Physiol. 2010

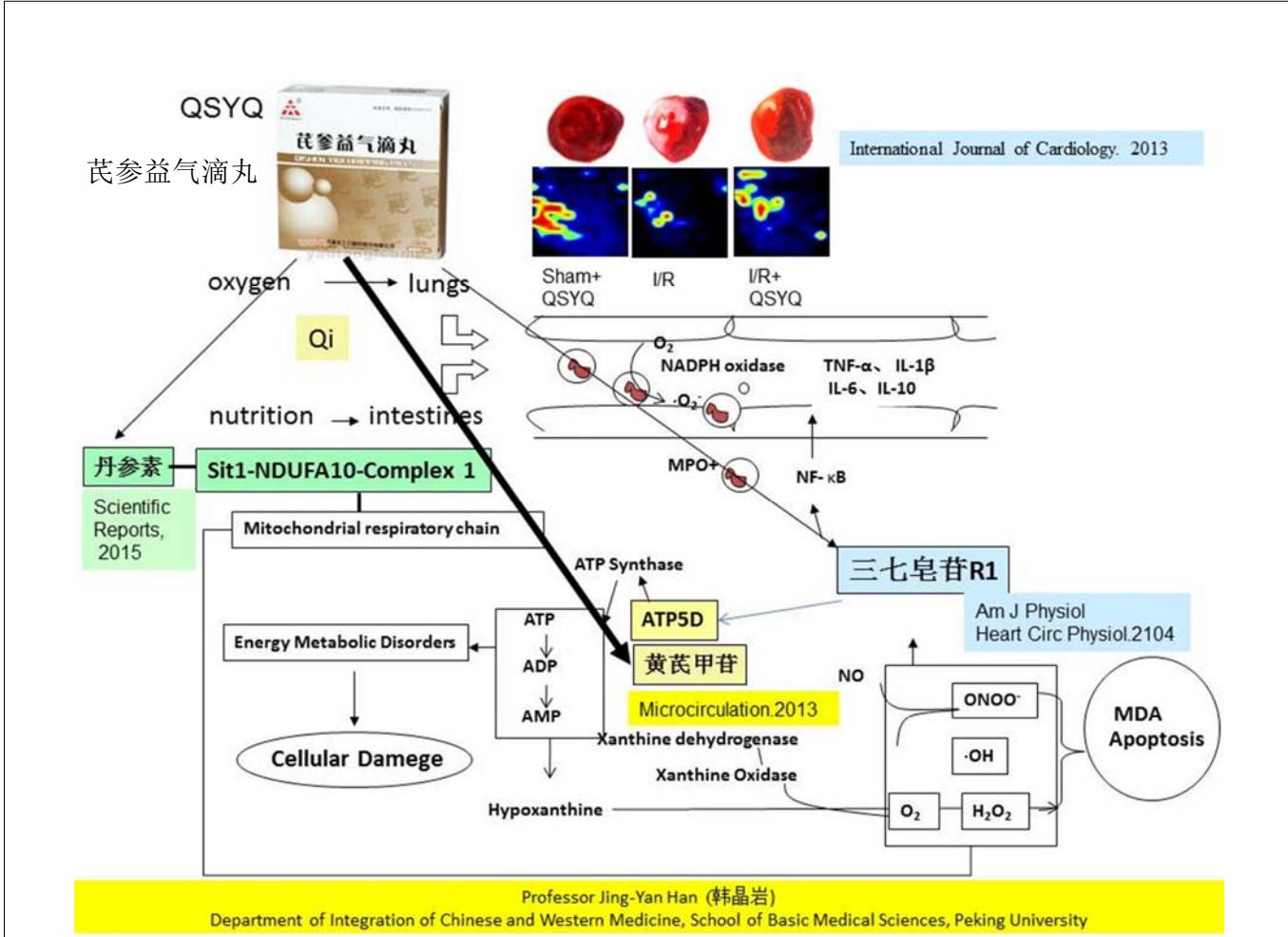


Microcirculation 2013



Professor Jing-Yan Han (韩晶岩)

Department of Integration of Chinese and Western Medicine, School of Basic Medical Sciences, Peking University



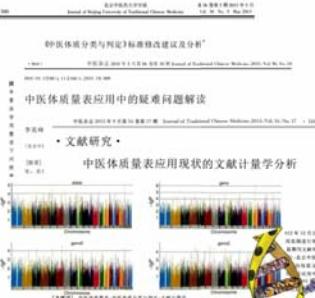
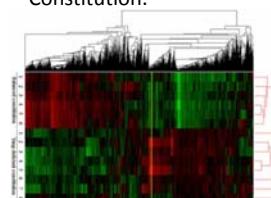
## Beijing University of Chinese Medicine

### Research on Constitutions and Visceral manifestations



Prof. Qi Wang

- ✓ Constitution of CM Questionnaire.
- ✓ Constitution and Gene.
- ✓ Biological Basis of Constitution.



Prof. Qingguo Wang

- ✓ A Study on "Liver Storing Blood and Taking Charge of Catharsis".

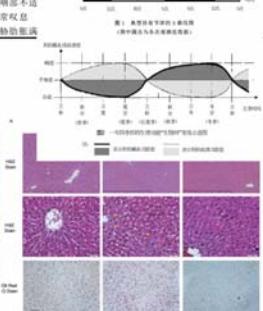


表2 82例女大学生月经不同时期自评量表  
精神情绪表现评分(分, ± s)

临床表现	月经周期		
	经期	经后期	黄体中期
记忆力减退	0.84 ± 0.70	0.65 ± 0.65	0.67 ± 0.71
注意力不集中	0.72 ± 0.73	0.53 ± 0.66	0.52 ± 0.64
容易发火	0.68 ± 0.71	0.40 ± 0.60	0.41 ± 0.63
思考时思维空洞	0.64 ± 0.67	0.48 ± 0.61	0.47 ± 0.63
反应能力变慢	0.60 ± 0.71	0.44 ± 0.66	0.44 ± 0.66
容易紧张	口干		
活动能力变慢	便秘		
怀疑	头部不适		
惊吓	腹部不适		
恐惧	眼睛干涩		
惶惶不安	胸部不适		

表3 82例女大学生月经不同时期自评量表  
躯体表现评分(分, ± s)

临床表现	月经周期		
	经期	经后期	黄体中期
神疲	0.84 ± 0.70	0.65 ± 0.65	0.67 ± 0.71
疲乏无力	0.72 ± 0.73	0.53 ± 0.66	0.52 ± 0.64
容易发火	0.68 ± 0.71	0.40 ± 0.60	0.41 ± 0.63
思考时思维空洞	0.64 ± 0.67	0.48 ± 0.61	0.47 ± 0.63
反应能力变慢	0.60 ± 0.71	0.44 ± 0.66	0.44 ± 0.66
容易紧张	口干		
活动能力变慢	便秘		
怀疑	头部不适		
惊吓	腹部不适		
恐惧	眼睛干涩		
惶惶不安	胸部不适		



# Beijing University of Chinese Medicine

## Research on Standardization and Biological Basis of Syndrome



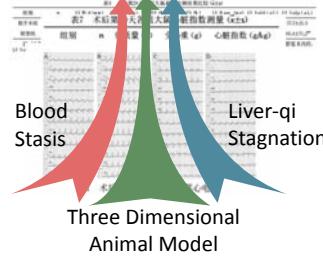
Prof. Qingguo Wang Prof. Tianfang Wang

✓ A Study on Syndrome Standardization and Systematize.

- On the premise of the **disease**, the **syndrome elements** are the core to establish the Syndrome Standardization

Location	Disease
Heart	hepatitis
Liver	COPD
Spleen	Depression
Yang Deficiency	Renal Failure
Yin Deficiency	

✓ Prof. Wei Wang  
✓ A Study on Biological Basis of Syndrome



✓ Prof. Jiaxu Chen  
✓ A Study on Biological Basis of Liver-qì Stagnation and Spleen-qì Deficiency



组别	胃底部 Ghrelin	血浆 Ghrelin
正常组	378.14 ± 29.90	411.78 ± 32.09
模型组	359.72 ± 10.54*	372.06 ± 44.19*
逍遥散组	388.98 ± 18.46△	464.43 ± 55.12△

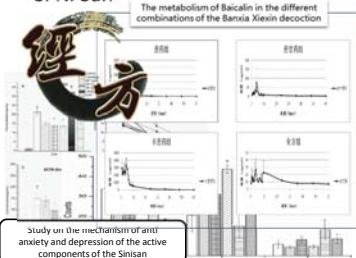
# Beijing University of Chinese Medicine

## Research on Mechanism and Material Foundation of Herbs and formulations



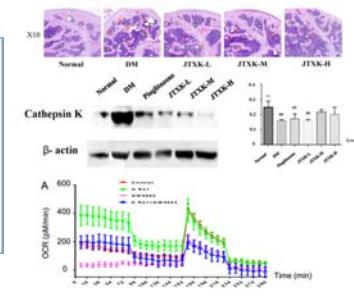
Prof. Qingguo Wang

- ✓ Banxia Xiexin Decoction
- ✓ Si Ni San



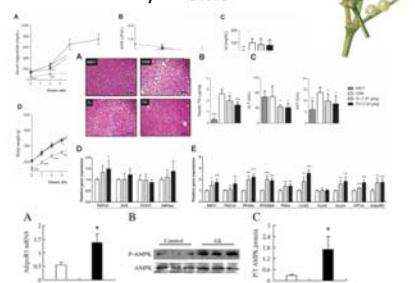
Prof. Sihua Gao

- ✓ Diabetes mellitus



Prof. Tonghua Liu

- ✓ Metabolic syndrome



# Beijing University of Chinese Medicine

## Clinical Research on Prevention and Treatment of Stubborn Diseases by TCM



Prof. Ying Gao

- ✓ Cerebral Ischemia
- TCM clinical practice guidelines for ischemic stroke should be developed on the **evidence based medicine**

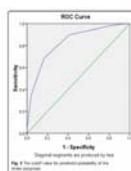


Figure 1. The Location of HT 5 and GB 39 (ACU) and NAP

Figure 1 Flow diagram of stroke due to compromised circulation and the TCM syndrome of primary stroke

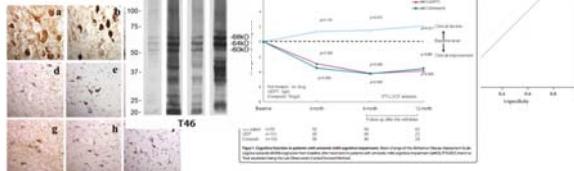
Figure 2 Flow diagram of stroke due to compromised circulation and the TCM syndrome of primary stroke

Figure 3 Identification of Clinical Practice Guidelines in CII for Ischemic Stroke



Prof. Jinzhou  
Tian

- ✓ Dementia
- **Herbal therapy:** a new method for the treatment of Alzheimer's disease and dementia



## The Research Team in China-Japan Friendship Hospital



### 北京市免疫炎性疾病重点实验室主任

- 建立了糖尿病并发症临床研究平台
- 中医药防治糖尿病并发症药理研究技术
- 成熟完善的分子生物学研究技术平台



临床

药理

平台



研究平台

# The Research Team in China-Japan Friendship Hospital

## TCM 研究平台

- 国家中医药管理局肾脏病临床疗效评价重点研究室
- 国家中医药管理局肾脏药理三级实验室
- 国家中医药管理局中西医结合重点学科

## 学术成绩

- 发表学术论文210篇，SCI期刊收录论文64篇，累计影响因子159.076分，
- 获国家发明专利5项，新药临床批件1项。
- 获省部级科技奖励一等奖2项，二等奖4项。



## Our team during 2015-2016 for TCM



- ◆ Second Prize of the State Science and Technology Progress (2016)
- ◆ First Prize of Science and Technology Award, China Association of Chinese Medicine(2015)

- ◆ The Funds for International Cooperation and Exchange of the Chinese Academy of Medical Sciences (2015)
- ◆ The Youth Project of NSFC(2016)
- ◆ The General Project of NSFC(2015)



## Publications

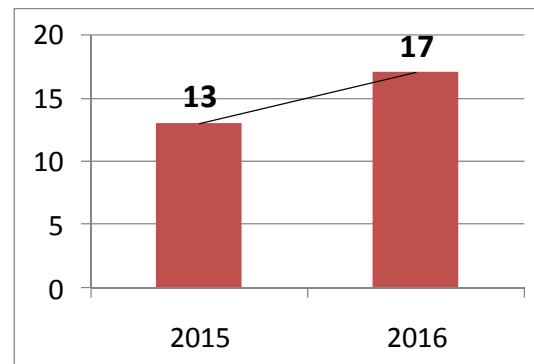
- |  |  |
|--|--|
| ➤ Zhang H, Wang H, Yan M et al. <i>Immunotherapy</i> 8(9), 1045-1057 (2016).                                 | 1963 (2015).   |
| ➤ Yang X, Zhang B, Lu X et al. <i>BMC complementary and alternative medicine</i> 16 246 (2016).              | ➤ Wen Y, Zhan Y, Liu H et al. <i>BMC complementary and alternative medicine</i> 15 155 (2015).                           |
| ➤ Yan M, Wen Y, Yang L et al. <i>Trials</i> 17(1), 259 (2016).   | ➤ Li P, Chen Y, Liu J et al. <i>PloS one</i> 10(5), e0126027 (2015).   |
| ➤ Yang L, Sun X, Zhan Y et al. <i>Experimental and therapeutic medicine</i> 11(4), 1410-1416 (2016).         | ➤ Sun SF, Zhao TT, Zhang HJ et al. <i>Clinical and experimental pharmacology &amp; physiology</i> 42(6), 662-670 (2015). |
| ➤ Wang H, Zhang H, Chen X et al. <i>International journal of molecular medicine</i> 37(5), 1290-1298 (2016). | ➤ Zhao T, Zhang H, Zhang X et al. <i>Journal of ethnopharmacology</i> 166 31-41 (2015).                                  |
| ➤ Zhao T, Sun S, Zhang H et al. <i>PloS one</i> 11(1), e0147693 (2016).                                      | ➤ Yu QS, Guo WS, Cheng LM et al. <i>Chinese medical journal</i> 128(14), 1956-   |

## Beijing Hospital of TCM *research situation*

➤ **192 ongoing research projects**

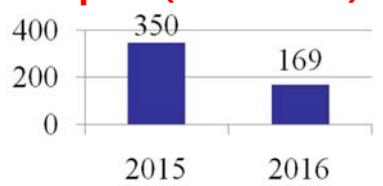
➤ **Approved research funding is over 71 million RMB**

Projects supported by National Natural Science Foundation of China

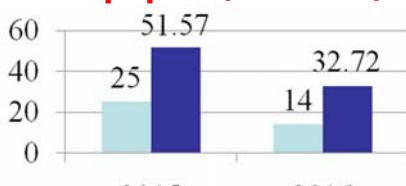


## Beijing Hospital of TCM *research situation*

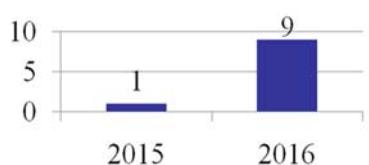
### Papers (in Chinese)



### SCI papers(Num, IF )



### Granted Patents



### In the past two years:

- Published **519** papers in Chinese
- Published **39** SCI papers and cumulative impact factor over **84**
- 6** papers' IF are above **5**
- Granted **10** patents
- Granted **14** provincial and ministerial level Sci & Tech Awards

