



中药全球化联盟

CONSORTIUM FOR  
GLOBALIZATION OF  
CHINESE MEDICINE

## Regional Report(GDCGCM)

2016 CGCM Meeting  
Academia Sinica, Taipei

### Leaders



Xinsheng Yao  
Jinan University



Yubo Lv  
GDHTCM

# Member Institutes

At present, Guangdong Branch of CGCM include 10 member institutes:

Sun Yat-Sen University 中山大学

Southern Medical University 南方医科大学

Guangzhou University of Chinese Medicine 广州中医药大学

College of Pharmacy, Jinan University 暨南大学药学院

Guangdong Provincial Hospital of Chinese Medicine 广东省中医院

Guangdong Pharmaceutical University 广东药学院

Guangzhou Institute of Biomedicine and Health, Chinese Academy of Sciences  
中国科学院广州生物医药与健康研究院

National Engineering Research Center for Modernization of Traditional Chinese Medicine  
国家中药现代化工程技术研究中心

Shenzhen Traditional Chinese Medicine & Natural Products Research Center  
深圳中药及天然药物研究中心

South China Botanical Garden, Chinese Academy of Sciences  
中国科学院华南植物园



## Key Disciplines, Labs & Centers for TCM research in each institute

## 各机构在中医药研究领域的优势



# Sun Yat-Sen University

**Sun Yat-Sen University** have more than 100 years school-running tradition , a key university directly of the Ministry of Education, university vice ministerial level, rank the fifth in China. 拥有100多年办学传统，教育部直属重点大学、副部级高校，排名全国第5。



#### 4 State Key labs :

- Photoelectric material and technology 光电材料与技术
- Pest control and resource utilization 有害生物控制与资源利用
- South China oncology 华南肿瘤学
- Ophthalmology 眼科学

- 17 disciplines into the ESI of the front 1% Global Rank , 7 rank the ESI of the front 0.5% and 2 rank the ESI of the front 0.1% .  
ESI世界前1%的学科领域数17个,前0.5%的学科领域数7个,前0.1%的学科领域数2个。
- High level scientific research platform, 4 State Key Labs etc. 高水平科研平台
- 8 Affiliated hospitals 附属医院 8家



# Southern Medical University

▶ 6 Directly Affiliated hospitals 6所直属附属医院

▶ 5 State Key disciplines 国家重点及培育学科5个

▶ Clinical Medicine into the ESI of the top 1% Global Subjects Rank 临床医学排在ESI全球前1%学科行列

▶ 3 State Key labs :

Prevention and control of organ failure 器官衰竭防治

Pattern recognition 模式识别

CAD&CG 计算机辅助设计与图形学



▶ State research center of Clinical Medicine: State of chronic kidney disease 国家慢性肾病国家临床医学研究中心



# Guangzhou University of Chinese Medicine

One of the earliest 4 Chinese medicine colleges in China.

中国最早的4所中医院校之一

- 2 Great master of TCM 国医大师2名
- 9 research institutes 9个研究所
- 3 Provincial Key disciplines 省重点学科3个
- State Key discipline of TCM 国家重点学科中医学
- 25 Key disciplines of State Administration of TCM 国家中医药管理局重点学科25个
- 4 directly affiliated hospitals and 26 indirectly affiliated hospitals 4所直属和24所非直属附属医院
- 5 Ministry of science and engineering center 科技部工程中心5个
- 21 Provincial Bureaus Key labs 省部局级重点实验室21个



# College of Pharmacy, Jinan University 暨南大学

➡ A top ten College of Pharmacy in China

➡ Total projects: 170      Funding: 148 million RMB

➡ Total papers: 300      SCI papers: 178      Patent: 105

➡ Awards: China international collaboration award (first class); Guangdong province science and Technology Progress Award (first class) 、 Scientific research awards for Universities (second class) .

➡ New drugs research: clinical research licenses: 2; new TCM drug: 3.





# Guangdong Pharmaceutical University

## 3 Key disciplines:

- ▶ 2 Key disciplines of State Administration of TCM 国家中医药管理局重点学科:  
Analysis of Chinese Medicine 中药分析  
Basic Discipline of Chinese and Western Integrative 中西医结合基础
- ▶ A Provincial Key disciplines of Pharmacy 药学省级优势重点学科

## 8 Key Labs and one Research Center:

- ▶ 4 State Administration of TCM Key labs 4个国家中医药管理局重点实验室
- ▶ 4 Provincial Key labs 4个省重点实验室
- ▶ A Provincial Key research center: Integration of Chinese and Western for Metabolic Disease 代谢病中西医结合研究中心



# Guangzhou Institute of Biomedicine and Health, Chinese Academy of Sciences

## 4 Research Institutes:

- ▶ The South China of Stem Cell and Regenerative Medicine 华南干细胞与再生医学研究所
- ▶ Chemicobiology 化学生物学研究所
- ▶ Infection and Immunity 感染与免疫中心
- ▶ Public Health 公共健康研究所

## Key Labs and Research Centers:

- ▶ A Provincial Key lab of Regenerative Biology 再生生物学省部级重点实验室
- ▶ Drug Development Center and the South China Center for Innovative Pharmaceuticals
- ▶ State Key lab of Respiratory Disease 呼吸疾病国家重点实验室
- ▶ Research center of Stem Cell and Regenerative Medicine 干细胞及再生医学研究中心
- ▶ Joint Research lab of Stem Cell and Regenerative Medicine 干细胞与再生医学联合实验室





## National Engineering Research Center for Modernization of Traditional Chinese Medicine



### 5 Joint Research labs:

- NERC-CUHK(香港中文大学) standardization of Chinese materia medica and research and development 中药标准化和研发联合实验室
- NERC-CityU(香港城市大学) Chinese herbal medicine 中草药研发联合实验室
- NERC-UM(澳门大学)联合实验室
- NERC-SLS SYSU(中山大学)联合实验室
- NERC-JNU(暨南大学)联合实验室

### ➤ A Modern Demonstrative park for TCM 中药现代化的示范园

### ➤ 20 New drugs and Health foods 20个新药及保健食品

### ➤ One of the earliest four TCM engineering center in China 全国最早的四大中药工程中心之一

### ➤ 2 Research institutes: Injection and Solid Preparation 注射剂和固体制剂2个研究所



## South China Botanical Garden, Chinese Academy of Sciences

Guangdong Germplasm Repository 广东省种质资源库

South China plant Appraisal Center 华南植物鉴定中心

### 3 Key labs and 4 Research centers:

Plant Resources Conservation and Sustainable Utilization, Chinese Academy of Sciences

中科院植物资源保护与可持续利用重点实验室、

Vegetation Restoration and Management of Degraded Ecosystems, Chinese Academy of Sciences etc. 中科院退化生态系统植被恢复与管理重点实验室等。





## Shenzhen Traditional Chinese Medicine & Natural Products Research Center

- ▶ 4 Natural Science Foundation of China  
国家自然科学基金4项
- ▶ A Key project of State Administration of TCM— National TCM sample library program 国家中医药局重点项目——国家中药样品库计划
- ▶ Found that more than 170 kinds of new compounds and 500 kinds of active compounds. 发现新化合物170余种和活性化合物500余个。
- ▶ A team composed of 20 academicians as chief scientist  
20位院士作为首席科学家组成的一支团队



## Guangdong Provincial Hospital of Chinese Medicine

GDPHCM was established in 1933.

It is one of TCM hospitals with the longest history in China.

❖ **5 top-class hospitals**

❖ **3,150 ward beds**



Original building



Da-de Headquarter



Er-sha Branch



Fang-cun Branch



University Town Branch



Zhu-hai Branch



## Guangdong Provincial Hospital of Chinese Medicine

- Guangdong Provincial Academy of Chinese Medical Sciences.
- Guangdong Branch of China Academy of Chinese Medical Sciences.
- National Clinical Research Bases of Traditional Chinese Medicine, which is the biggest state-funded project in Chinese history.
- Acquired the good standardization behavior enterprise AAAA confirmation, which is the only included hospital in health care industry of China.
- 5 National key disciplines.
- 10 Key disciplines of State Administration of TCM.



## Guangdong Provincial Hospital of Chinese Medicine

- ◆ The State Administration of TCM standardization promotion base  
国家中医药管理局标准化推广基地
- ◆ International science and technology cooperation base of National Chinese medicine  
国家中医药国际科技合作基地
- ◆ Translational Medicine centre of National Chinese medicine 国家中医药转化医学中心
- ◆ Clinical evaluation center of National Chinese medicine 国家中医药临床评价中心
- ◆ Not cure disease research base of National Chinese medicine 国家中医药治未病研究基地

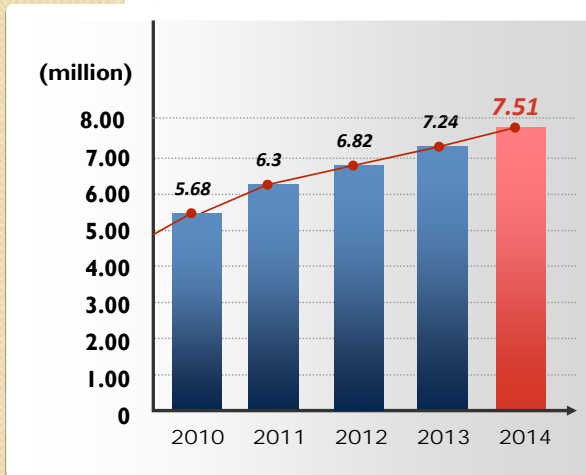




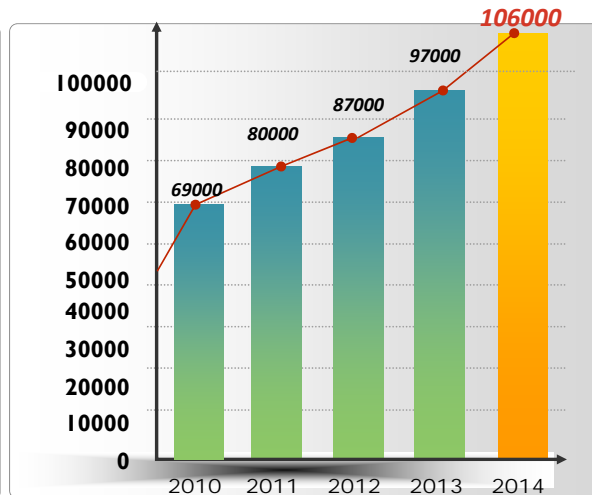


# Guangdong Provincial Hospital of Chinese Medicine

## Treat largest number of patients



Annual outpatient service



Annual inpatient service



# Guangdong Provincial Hospital of Chinese Medicine

## 2012~2013 Best Employer of Medical Institution

- ❖ **Top one** in medical service
- ❖ **Top nine** in overall ranking of hospitals
- ❖ **The only TCM hospital** entering the top 50

-----Provided by Lilac Park and McKinsey Company



医疗服务质量前10医院排行榜 <sup>1</sup>	文化情感前10医院排行榜 <sup>1</sup>	综合排名前10医院排行榜 <sup>1</sup>
排名 医院名称	排名 医院名称	排名 医院名称
① 广东省中医院	① 北京协和医院	① 复旦大学附属中山医院
② 北京协和医院	② 复旦大学附属中山医院	② 北京协和医院
③ 复旦大学附属中山医院	③ 北京大学第一医院	③ 中国人民解放军总医院
④ 北京大学第一医院	④ 吉林大学第一医院	④ 华中科技大学同济医学院附属同济医院
⑤ 中国人民解放军总医院	⑤ 华中科技大学同济医学院附属同济医院	⑤ 复旦大学附属华山医院
⑥ 济宁医学院附属医院	⑥ 广东省中医院	⑥ 四川大学华西医院
⑦ 中国人民解放军第四军医大学西京医院	⑦ 四川大学华西医院	⑦ 吉林大学第一医院
⑧ 复旦大学附属华山医院	⑧ 山东大学齐鲁医院	⑧ 第三军医大学第一附属医院
⑨ 山东大学齐鲁医院	⑨ 中南大学湘雅二医院	⑨ 广东省中医院
⑩ 四川大学华西医院	⑩ 江苏省人民医院	⑩ 上海市第二军医大学附属长海医院



## Guangdong Provincial Hospital of Chinese Medicine

**2013, 2014 "Strongest Competitive Hospitals  
Of Chinese Medicine in China"**

**Top one Consecutively -----Provided by Hongkong Ailib  
Hospital Management Research Center**

2013 "中国中医医院·竞争力100强" 排行榜总榜单

排名	医院	得分
1	广东省中医院	670.62
2	上海中医药大学附属龙华医院	664.14
3	中国中医科学院西苑医院	646.24
4	天津市中医药大学第一附属医院	612.48
5	江苏省中医院	572.91
6	广州中医药大学第一附属医院	566.77
7	上海中医药大学附属曙光医院	471.78
8	浙江省中医院	469.88
9	北京中医药大学东直门医院	467.30
10	中国中医科学院广安门医院	460.74
11	辽宁中医药大学附属医院	456.04
12	北京中医医院	455.91
13	河南中医学第一附属医院	447.78
14	成都中医药大学附属医院	434.68
15	北京中医药大学东方医院	410.50
16	新疆维吾尔自治区中医医院	405.97
17	佛山市中医院	400.88
18	湖北省中医院	395.87
19	长春中医药大学附属医院	391.98

2014 "中国中医医院·竞争力100强" 排行榜总榜单

排名	医院	得分
1	广东省中医院	662.19
2	中国中医科学院广安门医院	623.25
3	上海中医药大学附属龙华医院	622.25
4	中国中医科学院西苑医院	607.48
5	江苏省中医院	547.07
6	天津市中医药大学第一附属医院	539.90
7	浙江省中医院	524.81
8	上海中医药大学附属曙光医院	523.79
9	广州中医药大学第一附属医院	521.36
10	北京中医药大学东直门医院	485.81



## Guangdong Provincial Hospital of Chinese Medicine

**Actively promoting the benefit and use of Chinese Medicine**

- 90.5% of outpatients treated by TCM
- 66.5% of inpatients treated by TCM

**Over 25,000 formulas** are prescribed  
and **12 tons of herbal medicine** are  
consumed everyday.



**More than 370 hospital preparations(院内制剂)**

**Different forms (剂型) of drugs**





## Guangdong Provincial Hospital of Chinese Medicine

More than **100 TCM divisions**, specialized in effective treatment for specific diseases, are formed.

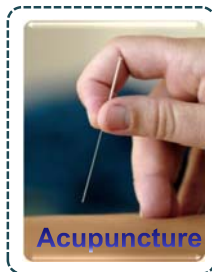
**S**et up consultation outpatient of TCM nursing.

**G**uided by theory of TCM, carry out personalized preventive services (Treating Potential Diseases), including physical identification, dietary guidance, sports guidance, herbal pastes application, etc.



## Guangdong Provincial Hospital of Chinese Medicine

### Traditional therapy



Through seeking and developing the diagnosis and treatment technologies nationwide, we build the hospital as a live museum of TCM.

Over **170 kinds** of diagnosis and treatment technologies of TCM are used in our hospital.





## Guangdong Provincial Hospital of Chinese Medicine

### Traditional therapy



**Ginger-partitioned  
Moxibustion**



**Abdominal  
Acupuncture**



**Foot  
Massage**



**Fumigate  
Therapy**



**Medicinal  
Vesiculation  
Therapy**



**Leihuo  
Moxibustion**



**Massage**



**Bonesetting  
Manipulation**



## Guangdong Provincial Hospital of Chinese Medicine

**Set up Clinical research platforms for the research matching international standards**

- » Platform of research designing and conducting
- » Platform of quality controlling and management
- » Platform of data management and statistical analysis

**Ensure the clinical research results recognized by international**

**Ethics review system:** Certified by SIDCER & World Federation of TCM Societies

**Information sharing system:**

Semantic medical record, consistent with international HL-7CDA

**Medical testing system:**

First institute certified by ISO15189 in China

Certified by ISO/IEC 17025 & ISO 15195

The testing results recognized by 58 countries and areas



## Guangdong Provincial Hospital of Chinese Medicine

### Conducting clinical trials of new drugs in the guidance with GCP standards

According to the standard of FDA and CFDA, we have remoulded Phase I ward, cooperation with Tasly Group, targeting on international market, conducting clinical trails in line with international.

In April, 2015. Pro. Elizabeth checked Phase I ward clinical research center, appraised the Phase I ward rank first in Asia.



## Guangdong Provincial Hospital of Chinese Medicine

Carrying out **tolerance test, pharmacokinetics and bioequivalence studies.**



### Internationally multi-center clinical trials of new drug

- Phase I , multi-center clinical trial of etanercept freeze-dried powder injection sponsored by US Wyeth pharmaceuticals Lit.
- Phase II, multi-center clinical trial of Glazosentan Injection sponsored by Actelion Pharmaceuticals Ltd.



## Guangdong Provincial Hospital of Chinese Medicine

**Conducting international research cooperation of TCM with top academic institutes abroad**



## Guangdong Provincial Hospital of Chinese Medicine

### Chinese-Australian International Research Center of Chinese Medicine

- GDPHCM and Royal Melbourne Institute of Technology University (RMIT) have established cooperation relations since 2008.
- Chinese-Australian International Research Center of Chinese Medicine established in 2014.
- Studies of T/CM with great impact are carried out, serving global evidence-based healthcare and hygiene.
- Staff of our hospital pursue PhD in RMIT.





## Guangdong Provincial Hospital of Chinese Medicine

### International research cooperation with Karolinska Institutet in Sweden



1. Seasonal Moxibustion treating asthma;
2. Traditional Chinese sports treating chronic kidney;
3. Herbal prescription treating antibiotic abuse in lung infection



**Thank you!**

**2016 CGCM Meeting  
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Thank you for your  
attention!

