



Peking University Health Science Center

Introduction

by Baiyu Xu
Office of International
Cooperation, PUHSC



Peking University

- + The first established modern national university in China, founded as the "Imperial University of Peking" in 1898
- + Listed by domestic and international rankings as one of the top universities in China
- + A comprehensive and national key university
- + A member of the C9 League
- + Renowned for its campus grounds, and the beauty of its traditional Chinese architecture
- + Has educated and hosted many prominent modern Chinese thinkers





2018 Rank: =27

[View full ranking table](#)



QS World University Ranking

#=38

Overall Score: **80.8%**

Academic Reputation: **99.8%**

Citations per Faculty: **61.7%**

Employer Reputation: **99.9%**

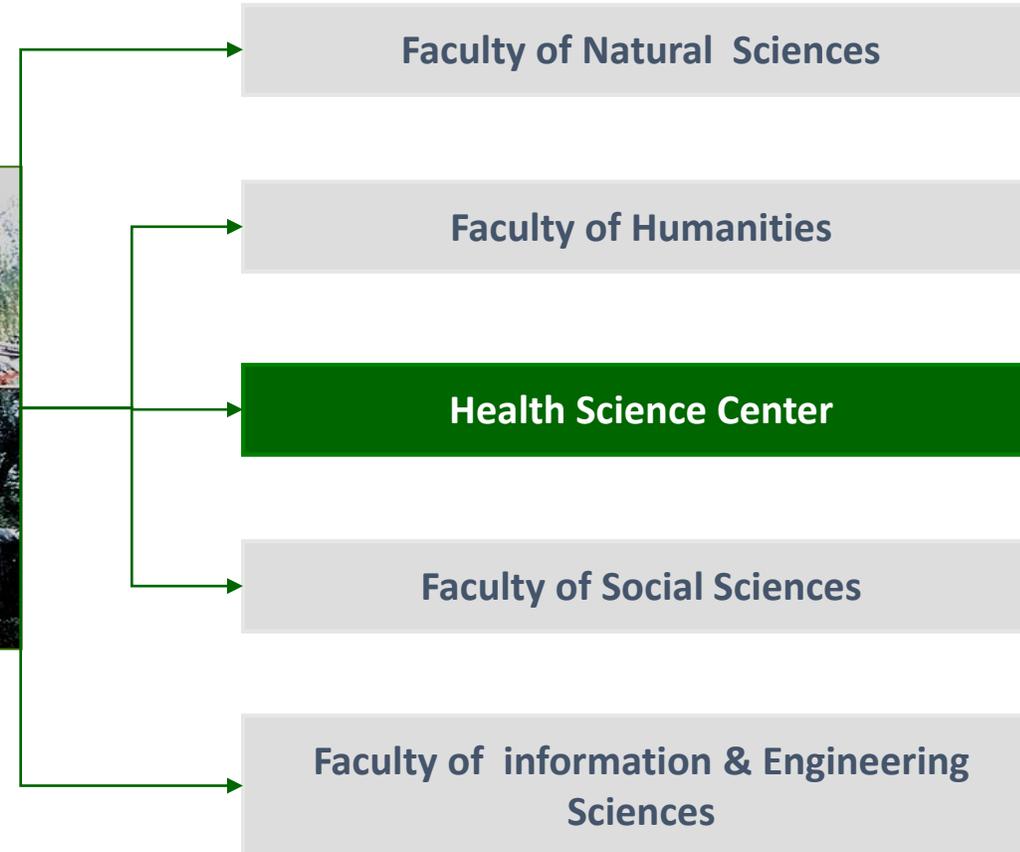
Faculty Student: **66.6%**

International Faculty: **52.8%**

International Students: **48.5%**

Current Structure of PKU

Peking University





- 
- 1 General Information
 - 2 Medical Service
 - 3 Medical Education
 - 4 Medical Research
 - 5 International Cooperation

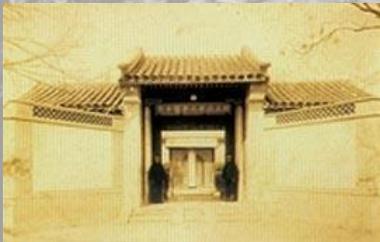


General Information



A Brief History of PUHSC

Mission: To improve people's health in China and around the world through excellence in education, research and patient care



Value: Diligence, rigor, objectivity and creativity

1912

National
Medical School
of Beijing

1946

Peking
University
Medical School

1952

Beijing
Medical
College

1985

Beijing
Medical
University

2000

Peking
University
Health Science
Center



Fast Facts - 2016



Total Staff	11470	Students		Graduates Program	
Professor and Associate Professor	962+1212	Undergraduate	3620	Academic Doctoral Programs	65
Academician	12	Postgraduate	4771	Professional Doctoral Programs	18
Affiliated Hospitals	10	Overseas Students	377+162	Academic Master's Programs	71
Teaching Hospitals	14			Professional Master's Programs	24



Medical Service-2016



Medical Service 1

Health Science Center



Affiliated Hospitals



The First Hospital

People's Hospital

The Third Hospital

Cancer Hospital

Dental Hospital

Mental Health Hospital

Shougang Hospital

Shenzhen Hospital

International Hospital

Binhai Hospital



Medical Service 2



With the 10 affiliated hospitals, PUHSC provides high standard medical services national wide:



Beds	9884
In-patients released	462,083
Out-patients treated	17,510,781
Emergency care	1,368,154
Operations	212,045



Peking University International Hospital



Scale: 1800 beds, 300,000 square meters construction area





Medical Education

Medical education in China

- **155 medical schools in mainland China**
- **151 public , 4 private**

Category of medicine

Category	Number
Medicine	129
Traditional Chinese Medicine	24
Tibetan Medicine	1
Mongolian Medicine	1
Total	155

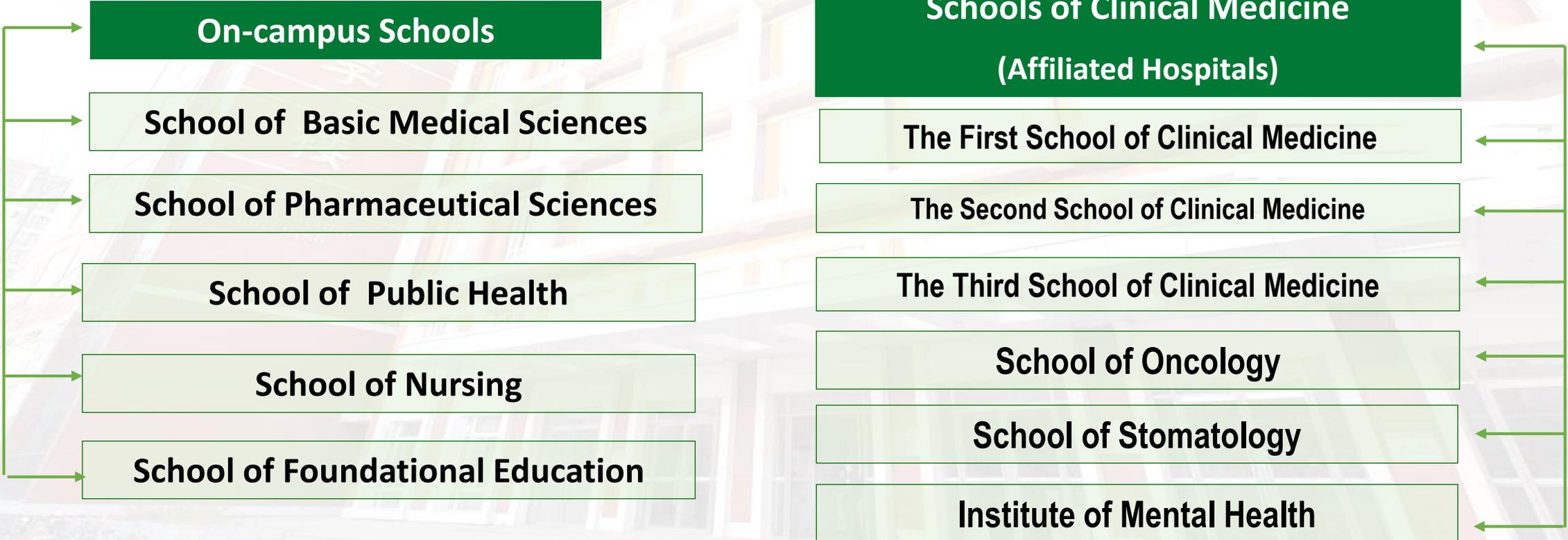


Schools

820 students each year, and 240 students major in Medicine.



Peking University Health Science Center





Medical Education Reform at PKUHSC



Strengthen medical students' professionalism, team spirit and overall competencies

Set up new disciplines (G.P, GH, CCHDS, MH)

Reform curricular systems under the principles of autonomous learning and PBL

Provide medical students with more exposures to primary care practice and international health care environment



Undergraduate Programs

820 students each year, and 240 students major in Medicine.

Leading to Doctoral degrees

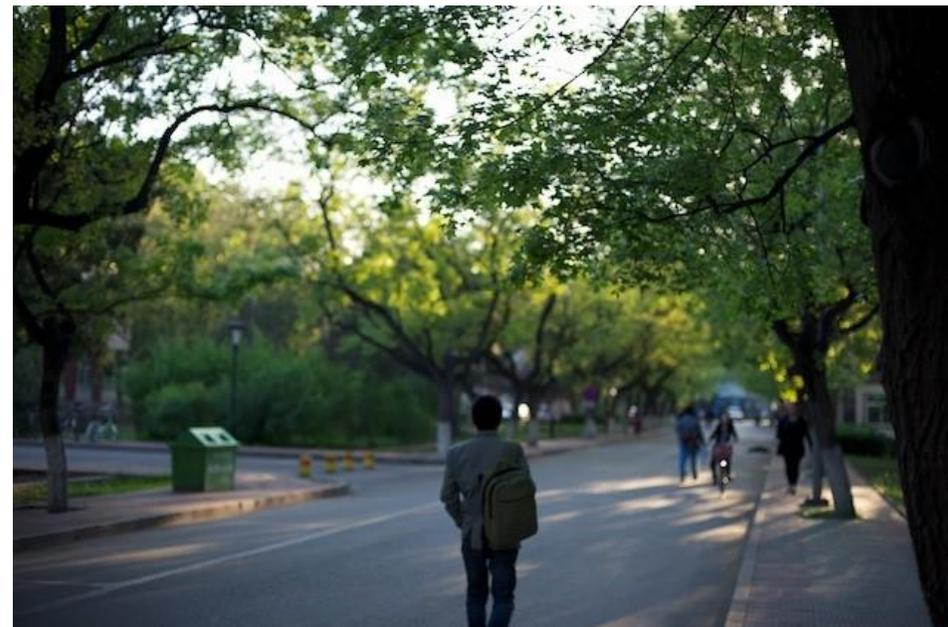
- Clinical medicine (8-year)
- Basic Medical Sciences (8-year)
- Stomatology (8-year)

Leading to Master's Degrees

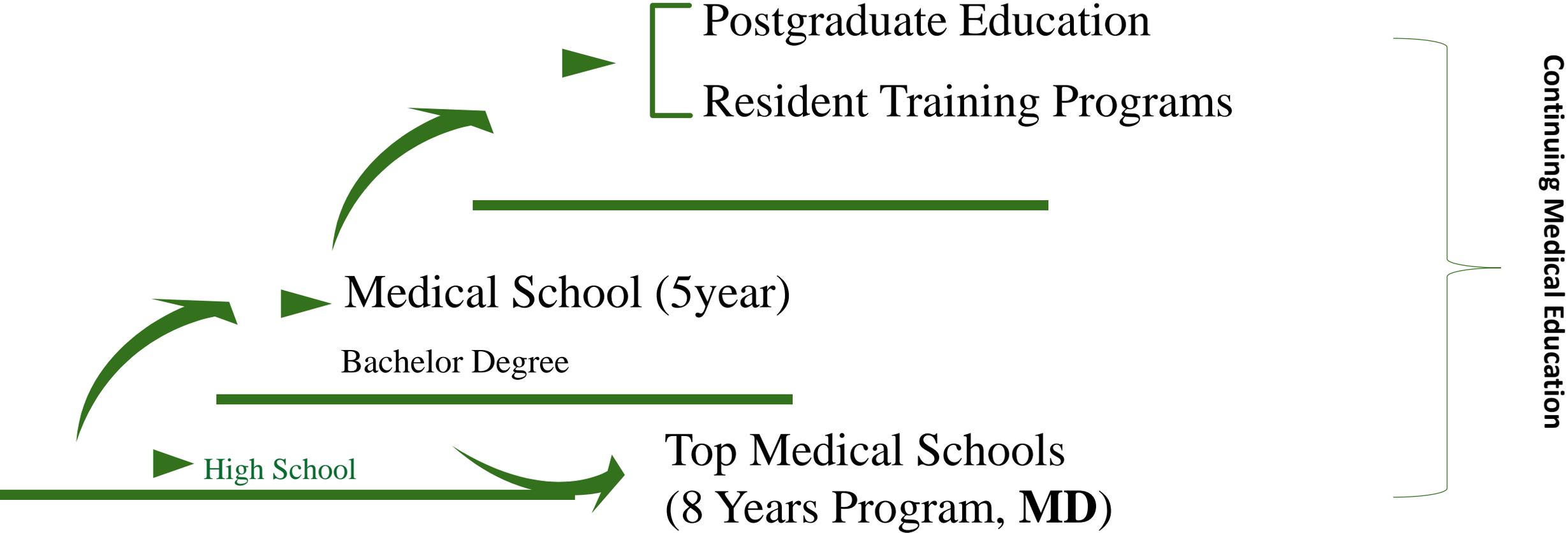
- Pharmaceutics (6-year)
- Preventive Medicine (7-year)

Leading to Bachelor's degrees

- Clinical Medicine (5-year)
- Stomatology (5-year)
- Stomatological Technology (4-year)
- Nursing (4-year)
- Bio-medical English (5-year)
- Laboratory Diagnosis (4-year)
- Laboratory Experiment (4-year)



Medical Education System in China



Continuing Medical Education

Example: Program of Clinical Medicine

- Clinical Medicine (8-year program)

year	curriculum	location	
1 st	Pre-medical: Natural science/social science/humanities	PKU campus	Early Expose To: Clinic & Science research
2 nd -3 rd	Pre-clinical: Lectures+20 cases study +lab experiments	PKUHSC campus	
4 th -5 th	Clinical learning: Lectures +case study +PBL	General hospitals	
	Clerkship +internship(36w)	Medical institutions	
6 th -8 th	Clinical practice: Rural practice(4w) oversea clinical practice(4-8w)+Clinical rotation: at least 24 m		
	Clinical research:6m		



Medical Research



Fast Facts - in Medical Research by 2016

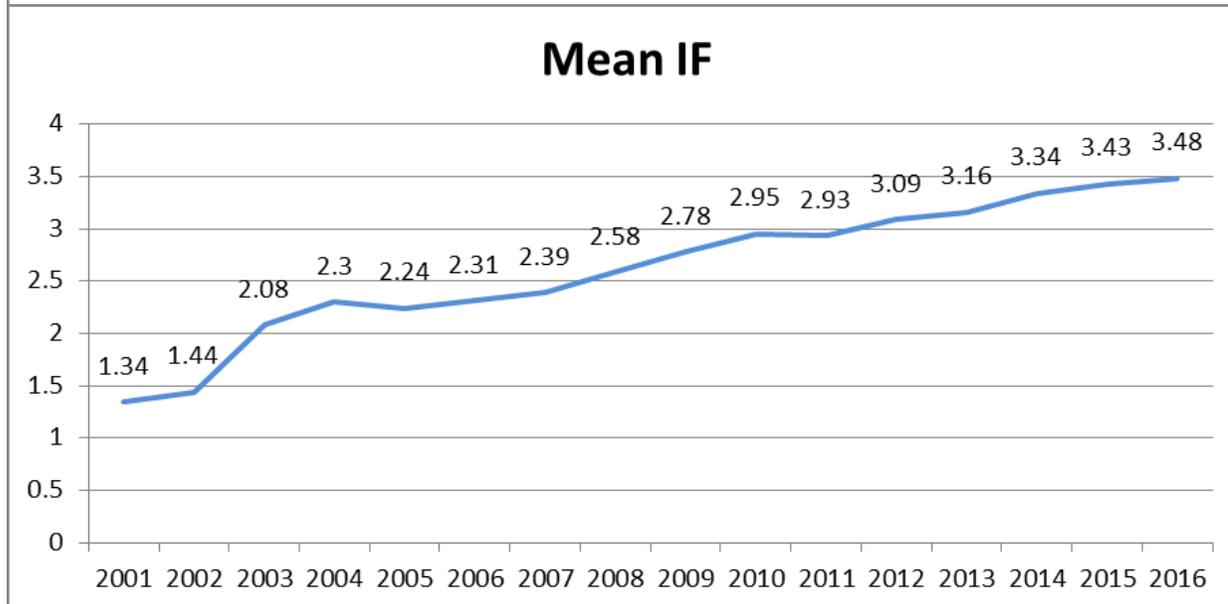
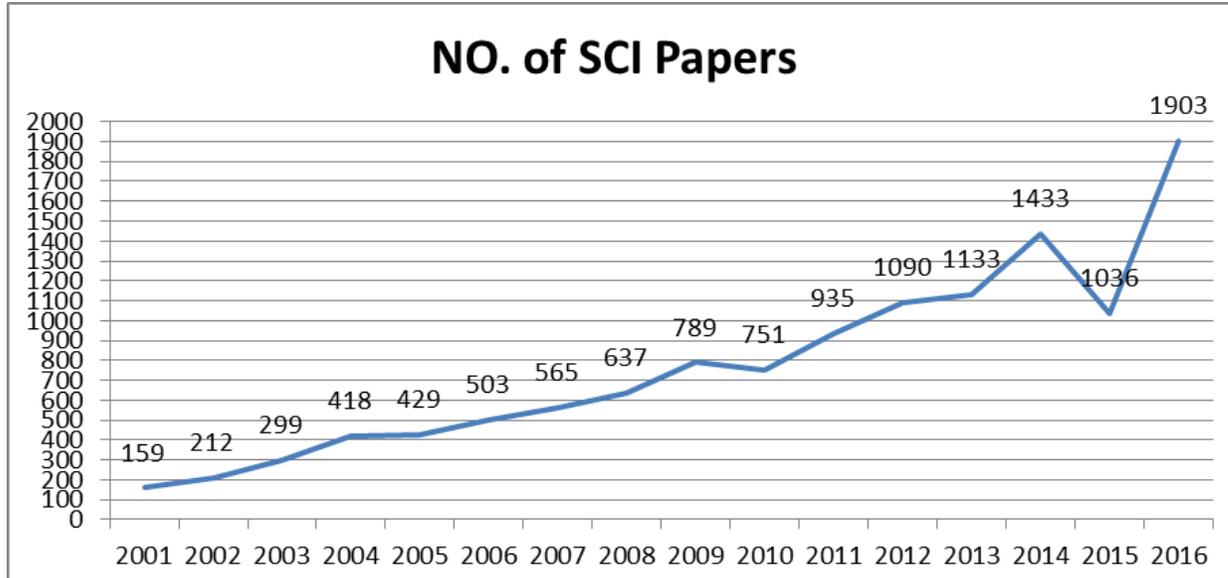


State Key Laboratory	1
National Engineering Laboratory	1
Ministry/City Key Laboratories	37
Ministry Engineering Research Center	2
Key Laboratory of State Administration of Traditional Chinese Medicine	4
Research Institutes	23
Research Centres	50
Research funding (2010-2016)	3.127 billion RMB
Industries & tech transfer (2010-2016)	0.828 billion RMB
Projects funded (2010-2016)	6257
International journal (2016)	1903(SCI)





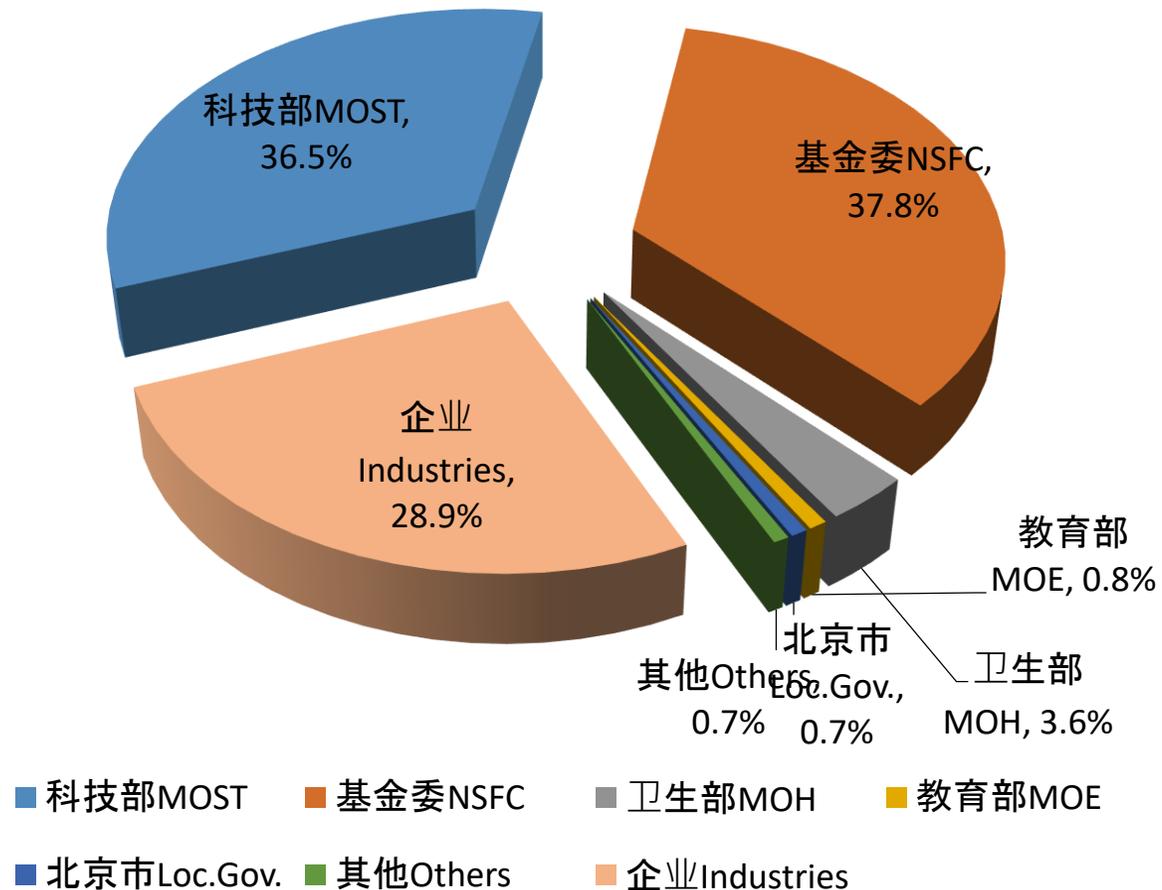
Research Publication (2001-2016)



- SCIENCE
- NATURE
- CELL
- LANCET
- NEW ENGL J MED
- NAT GENET
- NAT REV CANCER
- NAT BIOTECHNOL
- JAMA-J AM MED ASSOC
- LANCET NEUROL
- NAT CELL BIOL
- J CLIN ONCOL
- LANCET INFECT DIS
- MOL PSYCHIATR
- J EXP MED
- J NATL CANCER I
- CIRCULATION
- MOL CELL



Resources of research funds (2010-2016)



Total: 3.127 billion RMB

● Government Special Funding

“211” Project

1996-2000: 20M USD

2002-2005: 7M USD

2008-2013: 23M USD

“985” Project

2000-2003: 65M USD

2004-2007: 67M USD

2008-2009: 16M USD

2010-2013: 115M USD

National “Double First-rate” Plan

2017: 352.15 million RMB

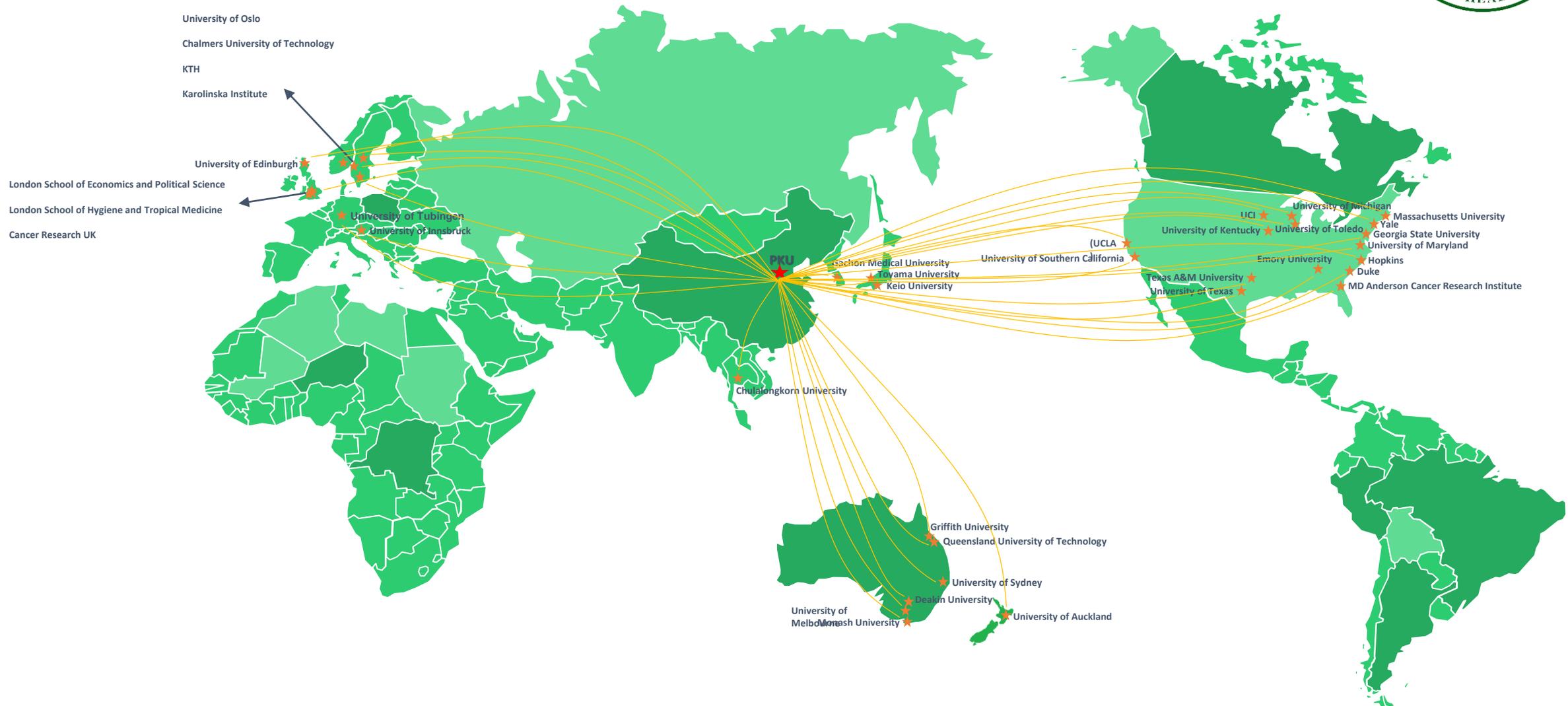


Research areas of priority

- Functional Genomics of Human Diseases
- Cardiovascular Diseases
- Cancer Research
- Stem Cell Research
- Reproductive medicine and Child Health
- Viral and Infectious Diseases
- Diabetes and other Immune-related Diseases
- Genetic diseases
- Neuroscience
- Ageing and senescence
- Public Health and Preventive Medicine
- Pharmaceutical Sciences
- Nursing
- Stomatology
- Interdisciplinary biomedical research



International Cooperation





Fast Facts – Strategic Partnership



USA	The University of Massachusetts	University of California, Los Angeles (UCLA)
	Duke University	University of Kentucky
	Georgia State University	Harvard University
	Johns Hopkins University	University of Michigan
	MD Anderson Cancer Research Institute	University of Nebraska Medical Center
	Northwestern University	University of Texas Health Science Center at Houston
	University of Southern California	
	Texas A&M University	University of Pittsburgh
	The Emory University	Yale University
	University of California, Irvine(UCI)college of Medicine	UC Davis
Australia	University of Adelaide	Queensland University of Technology
	Australian National University	The University of Sydney
	Griffith University	The University of Melbourne
	LaTrobe University	University of Queensland
	Monash University	



Fast Facts – Strategic Partnership-con't



Korea	Yonsei University	United Kingdom	Cancer Research UK	
	National Seoul University		University of Edinburgh	
	Gachon Medical University		London School of Hygiene and Tropical Medicine	
	Korea University		King's College, London	
Japan	Keio University	Ireland	University of Birmingham	
	Toyama University		Germany	
	Osaka University			University of Manchester
	Nagoya University			Hibernia College
Sweden	Juntendo University	Norway	University of Tubingen	
	Karolinska Institute	Finland	University of Oslo	
		Chalmers University of Technology	Austria	University of Helsinki
			Tailand	University of Innsbruck
Holland	KTH	Singapore	Chulalongkorn University	
	University of Groningen	Hong Kong	National University of Singapore	
	Erasmus University		Chinese University of Hong Kong	
Utrecht University	University of Hong Kong			
Canada	University of British Columbia		Hong Kong University of Science and Technology	

Main Forms of Collaboration

Collaboration forms		Examples
Student and staff exchange		
Student/staff exchange program with		Short-term Student Exchange Program (4-8 weeks): collaborating with 34 high ranking overseas universities or institutions; in 2016, 161 PUHSC students went overseas for: --clinical rotation; clinical observation; research rotation; public health program 32 students from our overseas partner universities came for: --clinical clerkship; public health course; traditional Chinese Medicine Course
Joint education program		
Joint training program		Collaboration with our partner universities, e.g. University of Michigan, University of Pittsburgh, Edinburgh University, Karolinska Institutet, etc.
MD+PhD:		Collaborating with 15 high ranking overseas universities, 63 students have participated in this program so far
International Scholarship		>20, e.g.
Toyama University Scholarship		(support 2 students and 2 faculty annually)
Stanford HoHoLi Fellowship		(1 fellow)
Cancer Research UK Scholarship		(3 pos-doc)
University of Kentucky		(2 faculty in pharmacy)
Dr Cheng Yu Tung Fellowships		(2 faculty)



Partner Universities/Institutions for Student Exchange



USA	The University of Massachusetts
	Yale University
	University of Pittsburgh
	University of Michigan
	Northwestern University
	MCPHS
	UCLA
	UC Davis
	Alpharetta Family Medical Clinic, GA

Australia	The University of Sydney
	Queensland University of Technology
	Australian National University
	University of Adelaide
	University of Queensland

United Kingdom	King's College, London
	University of Edinburgh
	University of Birmingham
	University of Manchester

Canada	University of British Columbia
	University of Alberta

Sweden	Karolinska Institute
---------------	----------------------

Holland	Erasmus University
	Utrecht University

Norway	University of Oslo
---------------	--------------------

Denmark	Metropolitan University College
----------------	---------------------------------

Thailand	Mahidol University
	Chulalongkorn University

Singapore	National University of Singapore
------------------	----------------------------------

Korea	Gachon University
	Seoul National University
	Yonsei University

Japan	Osaka University
	Keio University
	Juntendo University
	Nagoya University

Hong Kong	Chinese University of Hong Kong
	University of Hong Kong

Various Forms of Collaboration-con't



Collaboration forms	Examples
Joint meetings/symposiums	>10 annually, e.g.
	Lancet-CMB China and Global Health in the 21 st Century Initiatives 2008, 2010
	International Conferences on Medical Education
	PUHSC-UMHS joint symposia
	Second Global Symposium on Health Systems Research 2012 with WHO
Joint Research Lab/Center	e.g.
	Sino-Swedish Joint Research Center (with Karolinska Institute)
	Sino-Austrian Biomarker Center (with University of Innsbruck)
	PUHSC-Toyama University Joint Pharmaceutical Research Center
	Sino-Australian Center for Excellence in Stem Cell Sciences
	PUHSC-UMHS Joint Institute for Translational and Clinical Research
	PUHSC-MAHSC Joint Centre for Genomic Medicine
	The University of Melbourne and Peking University Center for Psychiatric Research and Training
	PUHSC-KCL Joint Institute for Medical Research
University Day	Emory University Day
	Karolinska University Day
	Sydney University Day



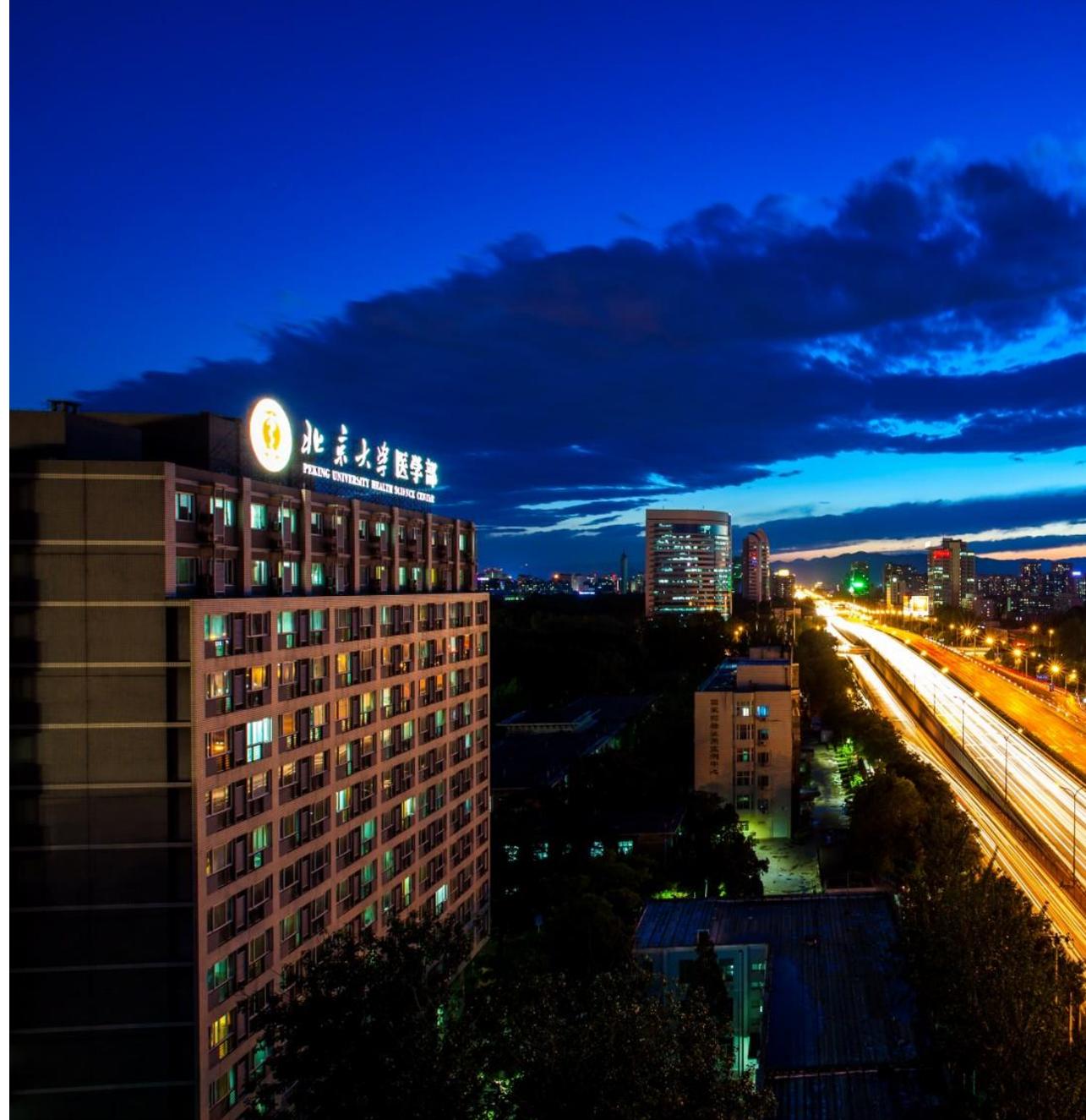
Various Forms of Collaboration-con't



Collaboration forms	Examples
NGO	WHO, UNICEF, CMB, Project Hope, ...
Company/Industry	Johnson & Johnson
	Pfizer
	Roche
	AstraZeneca
	Novartis
	GlaxoSmithKline
	Sanofi-Aventis
	Eli Lilly ...



Thank you!



Peking University Health Science Center