

China Program Office — 2011

Umass Medical School China Program Brochure



University of Massachusetts Medical School - Worcester

2010 Ranking among US Medical Schools:

- UMass ranked 56th in the Times of London's Top 200, which the newspaper describes as "the gold standard for world-class research institutions"
- The Top 10 Medical schools in the country in Primary care education
- Top ranking out of total 126 medical schools and 20 schools of osteopathic medicine
- 46 percent of the class of 2010 placed in primary care residency programs
- Success in fulfilling our founding mission and our commitment to primary care education

University of Massachusetts Medical School (UMMS), the only public medical school in Massachusetts State, America, was founded in 1962 to provide affordable medical education for state residents and to increase the numbers of primary care physicians in underserved areas.

Located in Worcester, Massachusetts, one of five University of Massachusetts campuses. UMass ranked 56th in the Times of London's Top 200.

Consistently ranked by U.S. News & World Report as one of the Top 10 leading medical schools in the nation for primary care education.

One of the fastest-growing research institutions in the country, with federal and private research grants and contracts exceeding \$200 million in fiscal year 2009.

Enhancing health and sci-

ence education, ensuring community health, building a diverse workforce and enriching lives through extensive community outreach.

Today, UMMS has established a reputation as a world-class research institution, attracting more than \$175 million in research funding annually.

The UMMS researchers have made pivotal advances in HIV, cancer, diabetes, infectious disease, and in understanding the molecular basis of disease. The UMMS Advanced Therapeutics Cluster includes the RNAi Institute, Center for Stem Cell Biology and Regenerative Medicine and the Gene Therapy Center.

In October 2006, UMMS' Craig Mello, Ph.D., and his Stanford University colleague Andrew Fire, Ph.D., were awarded the Nobel Prize for their groundbreaking research on RNAi.



Albert Sherman Center under construction

Main Contents:

About UMMS	1
Structure & Partners	2
China Program Office Chinese Partners	3
Training Opportunity in UMMS	4
Training Opportunity in China	5



The collaborations with clinical partner, UMass Memorial Health Care (UMMHC), the largest health care system in Central and Western Massachusetts, have also generated cutting-edge programs, research, education and treatments.

1,250 licensed beds
1,473 active medical staff
2,923 registered nurses
12,505 employees
58,762 hospital admissions

Major Teaching Hospital Affiliates,

In addition to UMass Memorial Medical Center, UMMS has major educational affiliations with Saint Vincent Hospital at Worcester Medical Center, Berkshire Medical Center in Pittsfield, Milford Regional Medical Center and St. Elizabeth's Medical Center in Boston.



Umass Medical School Structure

Three Schools

The School of Medicine is committed to training in the full range of medical disciplines, with an emphasis on practice in the primary care specialties, in the public sector and in underserved areas of Massachusetts. (Founded 1962, Ranked perennially in the top 10% in primary care, #7 in US News and World Report's 2009 Rankings)

21 accredited residency programs
 24 fellowship programs
 250 continuing education programs
 435 MD & 46 MD/PhD students
 3,000 Alumni
 543 Residents and Fellows
 Curriculum Redesign

The Graduate School of Biomedical Sciences students receive a broad background in the basic medical sciences and are trained in their selected specialty area in preparation for research with direct relevance to human disease. (Established in 1986)

13 Multidisciplinary programs
 As of Sept 2008:
 325 jointly appointed faculty
 419 students
 383 PhD Alumni
 World-class concentration of RNA researchers

The Graduate School of Nursing offers master's, post-master's and doctoral degrees, providing high quality education to prepare registered professional and advanced practice nurses within nurse practitioner and nurse educator specialties and for faculty, research and other nursing leadership positions. (Established in 1986)

Link to department and center lists:

http://www.umassmed.edu/dept_centers.aspx

Innovation, Discovery & Service Enterprises

Commonwealth Medicine,

The health care consulting division of UMass Medical School, serves public agencies and nonprofit organizations in the U.S. and overseas to improve the delivery of effective and cost-efficient health care solutions, by integrating the Medical School's cutting-edge academic resources with its high-level academic knowledge and public health service expertise.

The programs are diverse in scope and function :

- Provides a wide selection of savings initiatives and **financing solutions** for clients' health care programs and health reform initiatives
- **Research** with unique approaches to study design and fresh perspectives
- Offers extensive resources for public agencies and nonprofit health care organizations seeking to **establish or reform** health care **policy**
- Provides health-related **training** to diverse groups, from one-on-one consulting to group workshops or lectures, from post-graduate residencies to community or office-based seminars.
- Applies both academic and operations expertise to devise effective customized **clinical solutions** to health care management challenges
- **Pharmacy services** are designed to provide high-quality pharmaceutical outcomes while balancing the fiscal constraints faced by public and private sector organizations

Today, Commonwealth Medicine operates dozens of individual programs and centers, serving public sector agencies and nonprofit clients in 20 states, as well as internationally.

Massachusetts Biologic Laboratories (MBL)

The MBL established in 1894 to serve the public health interests of the commonwealth. From 1959 to 1996, the MBL was administered by the Massachusetts Health Research Institute, a private, non-profit that was under contract to the Department of Public Health to run vaccine development programs there. In 1997, control of the MBL was transferred to the University of Massachusetts.

The MBL is one of only a few publicly operated, FDA-licensed manufacturer of vaccines and other biologic products in the USA. The existence of the labs has helped to position Massachusetts as a leader in immunization, has afforded the state greater access to needed vaccines, and has saved the state millions by relying less on commercially produced vaccines.

Meanwhile, the MBL has introduced vaccines not only to prevent diphtheria, pertussis, tetanus and other diseases into general statewide-use but also to emerge business partnerships in India and China.

Mission of UMMS - China Program Office

The UMass Medical School China Program Office (originally named UMMS-China Translational Research Initiatives Office) was established in 2008 as part of the mission of UMass Academic Health Sciences Center - to advance the health and well-being of the people in the Commonwealth and the world through pioneering advances in education, research and health care delivery.

The China Program Office is committed to help establishing leadership position for UMMS in the trend of US Medical School/ Health System globalization by

- contributions to medical education in Chinese medical institutions
- providing our medical students with opportunities of international culture exposure and more intensive medical training
- establishing and maintaining alliance with top Chinese academic institutions for biomedical research, expanding our resources in facility, research funding and intellectual talents
- marketing UMMS IPs in China

Until 2010, UMass Medical School have signed Memorandum of Understanding (MOU) with four leading medical schools in China. That will foster the establishment of educational exchange programs and promote development of joint studies, research and training. The goal of the partnership is to create a framework for academic, research and clinical exchanges involving faculty, post-doctoral fellows, students and clinicians. China Program Office are currently still in the process of establishing multiple collaborative relationships with other Chinese institutions.



Existed Chinese partners institutes:

Tongji University School of Medicine
 Peking Union Medical College
 Peking University Health Science Center
 Sichuan University West China School of Medicine

Internationally renowned faculty attracted to the medical school's dynamic and collaborative research environment

Victor Ambros Melissa Moore <i>RNA biology</i>	Guangping Gao <i>Gene Therapy</i>	Robert Brown <i>Neurology</i>	Zhiping Weng <i>Bioinformatics</i>	Shalesh Kaushal <i>Ophthalmology</i>	Julia Johnson <i>OB/GYN</i>	Catarina Kiefe <i>Quantitative Health Sciences</i>

The China Program Office is committed to help establishing leadership position for UMMS in the trend of US Medical School/ Health System globalization

Research Excellence Led by Chinese Faculties

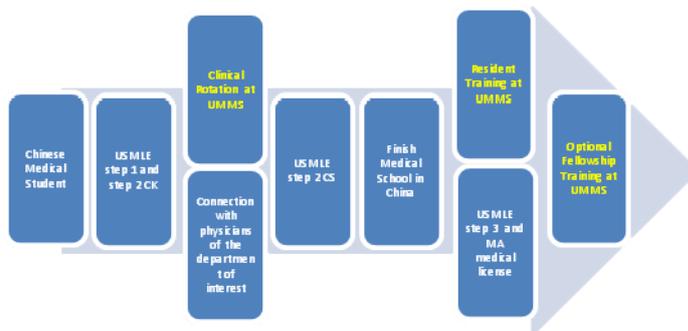
Vaccine development 疫苗开发 Dr. LU Shan 卢山
 Neurodegenerative Diseases 神经退行性疾病 Dr. XU Zuoshang 须佐尚
 Gene Therapy 基因治疗 Dr. GAO Guangping 高光坪
 Bioinformatics 生物信息学 Dr. WENG Zhiping 翁志萍

Strong Clinical Teams Led by Chinese Doctors

Pathology 泌尿生殖病理学和肿瘤病理 Dr. JIANG Zhong 江重
 Otolaryngology 人工耳蜗植入术, 听神经瘤切除术, 美尼尔病手术等 Dr. SHAO Weiru 邵维如
 Minimally invasive surgery 无疤痕单孔腹腔镜手术 Dr. CUI Hongyi 崔红义

For Chinese Student – Training Opportunities in UMMS

Ideal Medical Training Model



Clinical Rotation at UMMS

- Medical students at the last year of clinical training
- One-month blocks of clinical electives (each student usually takes two)
- Direct interaction with patients
- UMMS waives tuition
- Students responsible for living expenses
- Application fee (\$65 per course) and malpractice insurance (\$50)?

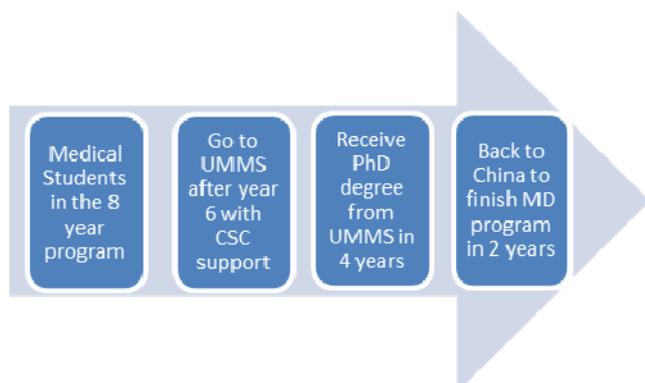
Resident Training at UMMS

- Graduates of medical schools
- Pass USMLE steps 1 and 2 and meet other ECFMG requirements.
- UMMS provides full salary

Special Fellowship Training at UMMS

- After resident training
- One year training in selected subspecialties
- Medical license required
- No compensations provided

MD/PhD Model



- Help the student to apply and get accepted to GSBS at UMMS
- Flexible requirements for TOEFL and GRE scores
- Student receives 4 year scholarship from CSC
- UMass supplements financially to match the total stipend of regular PhD candidates, currently at \$28,350/year plus health benefit.
- Application deadline at the end of the year.

Joint PhD Training Model



- Help the student get connected with individual PI
- Student receives scholarship support from CSC
- Financial support from UMass depends on individual cases
- Application accepted throughout the year

For UMass Student – Training Opportunities in China

UMass Medical School, through its educational, research and service initiatives, is committed to having a global impact. As a result of this increasingly global outlook, UMMS is actively fostering the development of strategic international academic partnerships.

The China Program Office at the Medical School is pleased to provide two program opportunities available to UMMS medical students in China: [Summer Student Program](#) and [Clinical Rotation Program](#).

In China, UMMS is establishing mutually beneficial relationships with a number of leading Chinese universities. These emerging partnerships provide wonderful opportunities for UMMS students to enhance their educational offerings and gain meaningful international experiences. More detailed introduction of each school/hospital can be found in the website (<http://www.umassmed.edu/China/partners.aspx>).



Summer Student Program

Available for students concluding their first or second year studies:

- [Culture Enrichment Program](#) through the UMass Confucius Institute; and
- Individually-arranged visit to medical schools and/or hospitals of UMMS Chinese partners.

Clinical Rotations

In general, clinical rotations will be focused on areas where UMass students will gain the most: Emergency Medicine, Obstetrics and Gynecology, Surgery, and Traditional Chinese Medicine. There will be additional options depending on the strength of each hospital. Special request will also be considered if a student is more interested in a specific area of specialty.

UMMS Chinese partners in medical education are [Tongji University School of Medicine](#) in Shanghai; [West China School of Medicine](#), Sichuan University in Chengdu, Sichuan Province; [Peking University Health Science Center](#) and [Peking Union Medical College](#) in Beijing.

“UMass Medical School gives students opportunities to follow their interests all over the world.”

*- Olga Valdman
Class of 2009*

Contact Us

UMMS-China Program
University of Massachusetts Medical School
 381 Plantation Street, Suite 250
 Worcester, MA 01605 USA

Phone: 508.856.1554
 Fax: 508.856.1552
 E-mail: China@UMassMed.edu
<http://www.umassmed.edu/china>

