China Medical University located in Taichung, Taiwan, was established in 1958 and now has developed into a world-class university with 7 colleges: College of Medicine, College of Chinese Medicine, College of Pharmacy, College of Public Health, College of Health Care, College of Biopharmaceutical and Food Sciences, and College of Humanities and Technology. China Medical University owns several Joint Commission International (JCI)-accredited hospitals with a total of around 5000 beds and China Medical University Healthcare System is the second largest Healthcare System in the entire nation of Taiwan.

China Medical University aims to become the top global university by investing 1 billion US dollars to build a new branch of Taichung Campus at Taichung Gateway Park and by offering 100 million US dollars to recruit 100 prestigious international scholars in the next 3 years. China Medical University welcomes outstanding international scholars and students to join the CMU family.

The accomplishments of China Medical University are well recognized by the public and the world. China Medical University is ranked in the top 151~200 by 2016 Academic Ranking of World Universities (ARWU). China Medical University is also ranked 133 in the field of Clinical Medicine and Pharmacy by 2016 Academic Ranking of World Universities. Moreover, China Medical University is ranked 46 and in the top 401~500 by Times Higher Education Asia University Rankings and World University Rankings, respectively. China Medical University is ranked in the top 101~150 in Pharmacy and Pharmacology by 2016 QS World University Rankings by Subject. By collaborating with more prestigious universities worldwide, China Medical University will definitely become one of the best world-class universities.

Chairman Chang-Hai Tsai’s Vision

Moving on its way to become a global leader, in 2013, China Medical University set a goal to reach World Top 400 Universities in three years, and Top 300 in seven years. The words are still ringing in our ears; as a matter of fact, China Medical University achieved its goal to reach Top 400 Universities in two years, manifesting the incredible power, determination, and efficiency of the entire team.

CMU and CMUH are moving forward hand-in-hand. Our vision is to become the global powerhouse of Western and Chinese medicine and pharmacy in both basic research and medical services. With the enormous effort made by Chancellor Lee and the entire faculty and staff, CMU strives to achieve excellence in all aspects of research, to provide the highest quality of teaching, and to equip our students with competence, compassion, and a solid sense of social responsibility.

Chancellor Wen-Hwa Lee’s Welcome Message

China Medical University is approaching its sixty-year birthday. I, as the current Chancellor carrying forward the leadership and endeavors by the Board of Trustee and the successive Chancellors, am pleased and proud to share this bliss with all of you today.

China Medical University has struck an incredible balance between what was once assumed to be mutually exclusive: it embraces medical traditions yet stimulates innovation; it subscribes to specialism yet prescribes an interdisciplinary education; it thrives upon biomedicine yet prospers through humanities. With unshakable solidarity of our dedicated faculty and staff, China Medical University is becoming the powerhouse of Western and Chinese medicine and pharmacy. I invite you to join us in the mission to triumph over the impossible and to envision the unimaginable.
Colleges and Centers

College of Medicine
- Medicine
- Medical Laboratory Science and Biotechnology
- Biomedical Imaging and Radiological Science
- Graduate Institute of Biomedical Sciences
- International Master’s Program of Biomedical Sciences

College of Chinese Medicine
- Chinese Medicine
- Post-Baccalaureate Chinese Medicine
- Graduate Institute of Integrated Medicine
- Graduate Institute of Acupuncture Science
- Chinese Pharmaceutical Sciences and Chinese Medicine Resources
- International Master’s Program of Acupuncture Science

College of Biopharmaceutical and Food Sciences
- Cosmeceutics
- Nutrition
- Biological Science and Technology

College of Public Health
- Interdisciplinary Freshmen Program of Public Health
- Public Health
- Occupational Safety and Health
- Health Services Administration
- International Master’s Program of Public Health

College of Health Care
- Nursing
- Physical Therapy
- Graduate Institute of Rehabilitation Science
- Sports Medicine
- Respiratory Therapy (Two-Year Continuing Education Program)
- Master’s Program of Biomedical Engineering

College of Pharmacy
- Pharmacy

College of Dentistry
- Dentistry

College of Humanities and Technology
- Technology and Law
- Technology and Management

Art Center
Center for General Education
Center for Continuing Education
Center for Faculty Development
Language Education Center
Information Technology Center

Major Affiliated Hospitals
- China Medical University Hospital, Taichung
- China Medical University Children’s Hospital, Taichung
- China Medical University Hospital, Beikang
- Tainan Municipal An-Nan Hospital, Tainan
Centers of Excellence

- Center of Excellence for Tumor Medical Science
- Center of Excellence for Traditional Chinese Medicine and Acupuncture
- Center of Excellence for Integrative Stem Cell Research
- Center of Excellence for Brain Diseases
- Center of Excellence for Cancer Immunology
- Center of Excellence for Aging Research

Center of Excellence for Tumor Medical Science


Selected Publications:
The Cancer Center

Our Cancer Center, which opened in the November of 2007, provides a friendly, state-of-the-art home for students and clinicians.

Our superintendent, K.S. Clifford Chao, of the Cancer Center is a passionate and distinguished physician who has been selected as one of the “Best Doctors in America” for 10 consecutive years. He has worked at world-class universities such as Columbia University, Weill Cornell Medical College, and MD Anderson Cancer Center of the University of Texas.

We invite you to explore the many opportunities that we offer in graduate education, cancer biological research, and clinical care.

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- **Deubiquitination and stabilization of PD-L1 by CSN5.** Lim, S-O*, Li, C-W*, and Hung, M-C. Cancer Cell 30, 925-939, 2016.
- **K63-polyubiquitinated HAUSP deubiquitinates HIF-1a and dictates H3K56 acetylation to promote hypoxia-induced tumor progression.** Wu, H.T...., and Wu, K.J. Nat Commun, 7, 13644, 2016.
CMU is recognized as one of the most esteemed universities in the world in the field of Chinese Medicine. We currently have two research centers:

- Research Center for Chinese Medicine & Acupuncture
- Research Center for Chinese Herbal Medicine

By joining forces between Chinese and Western medicine, we aim to provide our patients with the best treatments possible.

**Center of Excellence for Traditional Chinese Medicine and Acupuncture**

We have the best integration of Chinese and Western Medicine services at China Medical University Hospital.

### Research Topic | stage
---|---
Preclinical Study of Novel Diabetic Peptide Drugs Derived from Tian-Hwa-Fen. | IND
Development and Applications in New Drugs of Antrodia Cinnamomea on Rheumatoid Arthritis, Osteoarthritis and Osteoporosis. | IND
Development of Taiwanese Fern-Derived Compounds as GSTO Inhibitor for Cancer. | IND
Targeted New Drug Development for GBM—2nd Generation Drug of Interstitial Chemotherapy. | Phase I
New Drug Development of Indigo Naturalis Ointment. | Phase I
Development of Camptothecin Derivatives as New Anticancer Drugs | Phase II
Benefits of Hypoxic MSCs

In 2015, our stroke research team received the National Innovators Award for its research “Olfactory Stem Cells Improve the Functional Recovery of Stroke Animals.”

Hypoxia

Chromosome aberration

Expansion stemness potency

Senescence

Runx2, PPAR-γ2

VEGF, IL-6

SDF1-CXCR4

Migration / engraftment

Paracrine effects

Suppression of Nk ligand

p16, p21

Survival and engraftment after allogeneic transplantation

Stem Cell Research Publications

Bone defect
Tendon tear
Osteoarthritis
Disc degeneration

ARDS, CLI, AMI

Stroke
Neurodegeneration

Gastroenterol, 2011
Oncogene, 2013
Cancer, 2011
Nat Comm, 2016

PNAS, 2015

GvHD
Hematopoiesis
Sys. Sclerosis

Stem Cells, 2015
Advanced Mater, 2015

Stem Cells

SCTM, 2015

J Hepatol, 2015
Cardiovas Res, 2013

JTERM, 2012
AJSM, 2013

Stem Cells, 2015
Advanced Mater, 2015
CMU’s Research Breakthroughs

Jaung-Geng Lin, MD — National Treasure on Acupuncture

- Basic Research on Acupuncture Pain Relief
- Clinical Research on Acupuncture Pain Relief
- Research on Safe Needling Depth
- Dictionary on Chinese and Western Disease Name Matching
- World recognitions of his contribution to Research on Traditional Medicine

Invited to Join the WHO Meetings

- 2009 Traditional Medicine Precision Conference in Milan.
- Attending the 2015 WHO Regional Committee for the Western Pacific at Guam.

Hired by the UNESCO as World Experts and Consultant (2013-present)

- Invited to attend 3 sessions of Intergovernmental Committee for the Safeguarding of the Intangible Cultural Heritage and offer to publish in 2014 at the Paris Headquarter ICHNGO FORUM.

The Invited Speaker of WHO (2017)

- Invited to present a talk entitled “The Use of Acupuncture in Emergency Medical Services” at the 140th Session of the Executive Board of WHO.

Hung-Chi Chen, MD — Reconstructive Surgery

Features:

- Severe Case of Lymphedema or Abnormal Lymphatic System.
- Reconstruction of Phonatory Organ using intestinal tissues (World Renown).

Research Focus:

- The Physiology Research on Jejunum and Ileum as well as the plasticity of the enteric nervous system.
- Drafting and Publishing of the 4th Book.

Highlights:

2016 Discovery Channel “Taiwan Revealed: Medical Elite”
2014 National Biotechnology & Medical Care Quality Gold Award Awardee
2013 National Biotechnology & Medical Care Quality Silver Award Awardee
2012 Executive Yuan Award for Outstanding Science and Technology Contribution

Der-Yang Cho, MD — Immune Cell Therapy

Research:

The Research Team on Immune Cell Therapy focus research on dendritic cell vaccine treatments on clinical uses as well as understanding the interactional between immune cells and tumor microenvironment. This research is designed to structure the platform on multiple immune cell therapy on malignant brain tumors and strengthen the clinical treatments.

Highlights:

- In Taiwan, CMUH is the only medical center to perform the dendritic cell-based immunotherapy trial. So far, the phase-II trial had been finished.
- The completed trial-II study has shown the increasing survival of patients with malignant brain tumors.
- Results from translational studies had been published in two journals and have brought good responses and discussion from international scientific community (World Neurosurgery 2012).
Long-Bin Jeng, MD — Liver Transplantation

Feature:
- 2002.09.10~2016.08.31 Over 766 success cases of living donor liver transplantation.
- 5 year survival rate reaches 73.12%.
  (Liver Cancer : 61.44% / Not Liver Cancer : 83.99%).

Research:
- Use of Everolimus in Liver Transplant.
- The Immune Cell Treatment for Liver Cancer.

Highlights:
- World First Case of Living Donor Liver and Kidney Transplantation from Multiple Donors.
- Successful liver transplantation using Hepatitis B patient as a donor.
- World leading surgical Techniques: Hepatic Artery Matching without Microscope, Heavy Use of Artificial Blood Vessel during Liver Transplantation.
- Most experience using Everolimus in the world.

Wen-Hwa Lee, PhD — Pancreatic Cancer Research

Team:
- CMU: Academician Wen-Hwa Lee · Dr. Heng-Hsiung Wu
- SINICA: Dr. Chia-Ning Shen · Dr. Chun-Mei Hu
- NTU: Dr. Yun-Wen Tien (Surgery) · Dr. Yu-Ting Chang (Internal Medicine) · Dr. Ming-Chu Chang (Internal Medicine) · Dr. Yung-Ming Jeng (Pathology)

Research:
- Building the molecular basis on the occurring of pancreatic cancer through researching on the mutations of KRAS.
- Recognizing the diagnosis marker for the new early stage pancreatic cancer using the extracellular vesicles.
- The role of metabolic reprogramming process evoked by glucose played in pancreatic cancer metastasis.
- Defining the role of microenvironment on the pancreatic cancer metastasis.

Highlights:
- Develop new humanized IL-17RB vaccine and small molecular inhibitor through interpreting the transmission of molecular mechanism of IL-17B /IL-17RB as the new strategy for treating pancreatic cancer.
- Develop new platform for circling cancer cells for the use of diagnosis of pancreatic cancer and metastasis.

Companies established by CMU faculty

<table>
<thead>
<tr>
<th>Company Name</th>
<th>Establishment</th>
<th>Services/Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Ed Consultant Ltd.</td>
<td>2009</td>
<td>Mini-CEX</td>
</tr>
<tr>
<td>Pilot Biotechnology Ltd.</td>
<td>2010</td>
<td>Lactobacillus Plantarum CMU995</td>
</tr>
<tr>
<td>Bai-E Medical Equipment</td>
<td>2012</td>
<td>Pressure Sensitivity Construct, Falling Warning System, Sensitivity Pad</td>
</tr>
<tr>
<td>Yian-Lin Biotech Ltd.</td>
<td>2014</td>
<td>Functional Food Development of Polysaccharides from Rice Hull for Immunomodulation</td>
</tr>
<tr>
<td>Shan Zi Biotech Ltd.</td>
<td>2014</td>
<td>Health product produced from herbal composition for atherosclerosis prevention and its extract.</td>
</tr>
<tr>
<td>Hen-Mei Biomedical Tech</td>
<td>2015</td>
<td>Hen-Mei Mushroom Enzyme Food Product</td>
</tr>
<tr>
<td>Ever Health Bio Medical</td>
<td>2015</td>
<td>The Usage of IGF1R in stem cell and stem cell therapy (Including Magnetic Nanoseaurchin usage)</td>
</tr>
<tr>
<td>Caring &amp; Health Ltd.</td>
<td>2015</td>
<td>Training Courses for Care Takers</td>
</tr>
<tr>
<td>Tsai-Guai Ltd.</td>
<td>2015</td>
<td>Health Industry Management Knowledge and Techniques</td>
</tr>
</tbody>
</table>
Partner Institutions

China Medical University (CMU) has more than 140 partner universities all over the world. A few of CMU’s partner universities are shown below.

Nanyang Technological University

National Tsing Hua University

University of Newcastle

National University of Singapore
Partner Institutions

Georgia Tech

THE UNIVERSITY OF TEXAS
MD Anderson Cancer Center
Making Cancer History®
Partner Institutions

University of Southampton

University of South Carolina
Partner Institutions

Mahidol University

University of California, San Diego
CMU Hospital Offers Comprehensive Healthcare Services

Reconstruction

Stroke

Cancer

Preventive Medicine

Cardiovascular Disease

Rheumatology

Organ Transplantation

Neuropsychiatry

Trauma and Emergency

Chinese Medicine

CMU Hospital Offers Comprehensive Healthcare Services

Dr. Chang-Hai Tsai
Chairman of the Board of Trustees

Dr. Der-Yang Cho
Superintendent of China Medical University Hospital

Innovating Clinical Services

Artificial Heart Implant

Endothelial Keratoplasty

Full HD 3D video system

Hybrid OR

Joint Arthroplasty by Robotic Arm

Reconstructive Surgery

Robotic surgery (Davin chi system)
New CMU Campus
Since its establishment in 1958, China Medical University (CMU) has become the best private university in Taiwan. As of this year, CMU now ranks within the top 200 universities in the world, and ranks 2nd in Taiwan, according to the 2017 Academic Ranking of World Universities.

2017 Academic Ranking of World Universities ......................... No. 197
2016 Academic Ranking of World Universities ......................... No. 133
  in Clinical Medicine and Pharmacy
2017 Shanghai Ranking’s Global Rankings of  Academic Subjects
  Pharmacy & Pharmaceutical Sciences ..................... No. 76-100
2017 QS World University Rankings by Subject
  Pharmacy & Pharmacology ................................. No. 102
  Medicine ................................................ No. 151-200
2015-2016 THE World University Rankings ......................... No. 401-500
2016 THE Asia University Rankings ................................. No. 46
2016 THE BRICS & Emerging Economies Rankings ............... No. 35

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Taichung Main Campus
Tel:  + 886-4-2205-3366
Fax:  + 886-2-2206-1923
E-mail: cmuca@cmu.edu.tw
Address: No. 91 Hsueh-Shih Road
         Taichung, 40402, Taiwan, R.O.C.

Beikang Satellite Campus
Tel:  + 886-5-7833039
Fax:  + 886-4-2206-1923
E-mail: cmuca@cmu.edu.tw
Address: No. 123-1, Sinde Road, Beikang Township
         Yunlin County, 65152, Taiwan, R.O.C.

Future Shueinan Campus Profile
Location: Southern Part of Taichung Gateway Park
Project Design:
• Teaching and Continuing Education
• Research Development and Industry Cooperation
• Center for Gerontology and Geriatrics
• International Medical Center for Teaching and Research
• Cultural and Creative Industry

Visit www.cmu.edu.tw for more information.