A fertile ground
where students grow and thrive

A brand name
which earns a prominent reputation by high-quality talent

A pattern of education
which aims to develop an eminent elite

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Innovation
developing imagination and curiosity

Freedom
rejuvenating the nation

Exploration
seeking excellence

Truth
dedication

Asian’s first validation major
Biomedical Sciences

Word-class Faculty
Ensure a sound educational basis
Renovate research environment

Big-league International Partnership
Expand stable collaborative relationship with world famous universities

Well-equipped Facilities
Demonstrate service leadership

Excellent Students
Foster intellectual freedom and curiosity
Located within the picturesque Zijingang campus, School of Basic Medical Sciences is one of thirty-seven schools in Zhejiang University. It has three doctoral degree programs for major subjects in basic medicine, biology and pharmacy, and one postdoctoral mobile research station in basic medicine. Besides, our school offers doctoral degrees on 11 minor subjects, has four Provincial Key Disciplines, one Key Laboratory of the Ministry of Health (Neurobiology), one State Key Laboratory of the Food, Drug and Disease Administration (Respiratory Drugs Research) and two Provincial Key Laboratories (Proteomics, and Tissue Science and Engineering).

Currently, our school has a total of 190 faculty, among whom 40 are professors, including one Academician of the Chinese Academy of Sciences, one Academician of the German Academy of Sciences, seven specialists entitled to a special allowance from the State Council, five persons listed in the National Thousand Talents Project, five recipients of the National Science Fund for Distinguished Young Scholars, two members of the New Century Excellent Talents Support Project, one member of the Yangtze Scholars Scheme, one member of the Zhejiang Thousand Talents Project, and one outstanding teacher of Zhejiang Province.

The researchers in our school are closely involved with international cooperation in basic and translational research in biomedicine. In the last three years, our school has participated in more than 300 national and provincial programs and projects and more than ten national and provincial key programs. More than 260 papers have been published in SCI-listed journals, including well-known international academic journals such as Nature Neuroscience and Nature Immunology.

Foreign exchanges and cooperation are active and frequent. The school has established a cooperative relationship with many world-class universities, such as The Chinese University of Hong Kong, The University of Pittsburgh, The University of Edinburgh, Shanghai Jiao Tong University, Nanjing Medical University, West China Medical School of Sichuan University and The Second Military Medical University.
STANDING ON THE SHOULDERS OF GIANTS

- **1945**
  
  The history of the School of Basic Medicine of Zhejiang University can be traced back to Chekiang Medical School founded in 1912, and National Chekiang University Medical College founded in 1945.

- **1948**
  
  1948: Upgraded to Chekiang Provincial College of Medicine

- **1952**
  
  1952: Renamed Zhejiang Medical School through combination with the School of Medicine, Zhejiang University

- **1994**
  
  1994: Reincarnated as the School of Basic Medical Sciences, Zhejiang Medical University

- **1999**
  
  1999: Reorganization of the School of Basic Medical Sciences

- **2005**
  
  2005: Established as a national center for basic scientific research and teacher training

- **2009**
  
  2009: Upgraded to a middle-level organizational system of Zhejiang University, and officially changed its name to Zhejiang University School of Basic Medical Sciences

- **2011**
  
  2011: Approved as one of seventeen National Pilot Schools

- **2012**
  
  2012: Re-organized to re-establish departments in 10 disciplines, five research centers, and two integrated curriculum groups
Dean’s message

The year 2012 marked the 100th anniversary of the School of Medicine. On this special occasion, the School of Basic Medical Sciences, selected by the State Council and Ministry of Education of China to be one of seventeen National Pilot Schools, has become a Special Educational Zone in the comprehensive reform of higher medical education. On behalf of the school, I would like to say: This is a glorious mission with grave responsibilities.

Our school has continued to adhere to the spirit of “seek the truth, pursue innovation”. As we embark on our ambitious path into the future, we have made clear our new historical mission, which is to provide not only high-quality basic medical education for clinical medicine but also cultivate biomedical talent with great expectations for the transformation of Health Care and the Biomedical Economy.

As the saying goes, hard work is the road to success. Zhejiang University has a history of more than one hundred years. Orienting our work towards being a world-class school, our faculty and students are committed to accelerate the development of education and research, as well as social and cultural contributions by reform and innovation by attracting new talent and the academic elite.

Thanks to the strong support from related fields in society, I sincerely hope continuous concern and support from the community will rejuvenate us - faculty, staff, students, and alumni - to work together passionately to build the School of Basic Medical Sciences into an even greater world-class institution!
Excellent Education

In 2012, as part of a pilot reform project, the School of Basic Medical Science established the Program of Biomedical Sciences, the first major of its kind in China.

Core mission:
help the students to prepare to become leaders in the field of BMS in the 21st

Design:
3+1 Degree Program

Five-in-One
Comprehensive Advisory System

Purpose
To cultivate talented students with “KCVA”, both in academic development and personal growth

Establishment
Based on the Brown University advisory system and ZJU administrative systems; A² (Academic × Arts) Project (also known as the “Mount Everest” Project)

Highlights
A comprehensive advisory system designed to meet the students’ requirements for both academic and overall growth;
Covering the entire 4 years, with emphasis on dynamic switching in the study process;
Distinguished Professors lead the advisory team;
Integrated into the ZJU evaluation system;
As part of the pilot educational reform, highly valued by the Ministry of Education, ZJU, and the Faculty of Medicine.

YEAR1 YEAR2 YEAR3 YEAR4
General Advisor
Research Mentor
Freshmen Counselor
Peer Advisor
English Advisor

Multiple Channel
Curriculum & Research Training
Diverse Development

Knowledge
Interdisciplinary knowledge
Capacity
Innovative research skill
Vision
Global vision
Arts
Thoughtful with social responsibility
General Advisor

Qualification
MD and/or PhD, Professor, Supervisor of PhD students;
Enthusiastic about education and student training;
Communication skills;
Success in advisor training program.

Responsibility
Regular meetings with students in groups or individually;
Design and organization of group activities;
To inform, to discuss, and to help solve problems.

Research Mentor

Qualification:
Twenty-two Professors (principal investigators) from five research centers;
Students accepted based on interviews and mutual agreement.

Responsibility
Lab rotation and research training;
Thesis design and guidance in collaboration with foreign research mentors;
Performance evaluation;
Advice for career development.

Freshmen Counselor

Administrative faculty members
Each dormitory student is assigned to one freshman counselor;
Frequent visits to students in the dormitory;
Help adjust to university life;
Guide with counselor’s experience;
Respond to students’ problems.

Peer Advisor

Excellent senior students;
Provide information based on their experience with administration, rules and regulations, curriculum, student associations, and campus services;
Meet freshmen along with general advisors in group activities.

English Advisor

To improve the English level and prepare for future study abroad;
Four English advisors;
Native English speakers, teachers or students;
Responsible and enthusiastic about education;
In Hangzhou for at least one year;
Small group activities: 3-5 sessions;
Twice per month (usually on weekends);
Activities: English writing, oral presentation, cultural discussion, homework, and evaluation;
Group rotation.
School’s Research Endeavors

Five Centers

■ Research Center for Neuroscience

The Neuroscience Research Center of Zhejiang University School of Medicine is composed of researchers majoring in subjects related to neuroscience such as Neurobiology, Neuroanatomy, Neuropsychology and Optical Imaging, as well as Neurology, Neurosurgery, Mental Health, Anesthesiology, Radiology and other related disciplines in the Affiliated Hospitals. So far, there are 26 study groups, and more than 200 full-time researchers in the research center, including an academician of the Chinese Academy of Sciences and the Third World Academy of Sciences, a winner of the 11th Science & Technology Progress Award, two chief scientists of 973 projects and a Ministry of Science and Technology major research project.

■ Research Center for Molecular Cellular Biology

The Research Center of Molecular Medicine consists of many interdisciplinary research programs in the School of Basic Medical Science of Zhejiang University, such as biochemistry and molecular biology, cellular biology, genetics, and molecular pathology, immunology. The current research focus is on molecular and cellular biology as the main means of revealing the mechanisms underlying the etiology and pathological changes of major disease, such as cardiovascular, metabolic and neurological disorders, as well as cancer, mainly in terms of signal regulation, the cell cycle, and organelles. The Center is headed by Professor Tianhua Zhou, winner of the National Science Fund for Distinguished Young Persons, to form an academic team composed of ten-professor research groups, taking on a number of major national key programs, including 973 and 863 projects.

■ Research Center for Stem-cell and Regenerative Medicine

The Research Center for Stem-cell and Regenerative Medicine established in 2012. By incorporating multidisciplinary approaches, the Center aims to provide a comprehensive and coordinated environment to promote “bench to bedside” research related to stem-cell and developmental biology. The Center has created basic and clinical research programs, as well as biomedical and tissue-engineering programs, with research themes extending from the life sciences to materials science and chemistry. Supported by national research funds such as the 973 and 863 programs, the Center has excelled in the fields of tendon and cartilage tissue engineering, hematopoietic stem cell biology, and reproductive medicine. The Center is led by 6 principal investigators. The current Director is Hongwei OUYANG, a “Thousand Talents” Professor and recipient of an Outstanding Young Person award.

■ Research Center for Infection and Immunity

The Research Center for Immunology and Microbiology focuses on immune recognition, novel molecular cloning and functional studies of immune regulation, gene therapy for cancer, and immunotherapy, as well as pathogenic micro-organisms creating new vaccines. The Centre which brings together 10 professors and 20 highly-talented individuals who work on a number of science and technology projects of national priority and the 863 Program.

■ Research Center for Oncology

The Research Center for Oncology is devoted to understanding tumorigenesis, finding new tumor markers for screening, developing new techniques for early diagnosis, designing antitumor drugs, providing new scientific bases and methods for cancer prevention, diagnosis and treatment. The Center is headed by Professor Maode LAL, an Academician of the German Academy of Sciences, who has formed a team of eight-professor research groups, taking on a number of major national key programs, including National Natural Science Fund Projects and National Science and Technology Support Programs.
Ten Departments

Department of Pharmacology
Department of Immunology
Department of Physiology
Department of Biochemistry
Department of Cell Biology and Medical Genetics
Department of Pathogen Biology
Department of Pathology and Pathologic Physiology
Department of Anatomy and Histology
Department of Neurobiology
Department of Stem-cell and Developmental Biology

Pathology and Pathologic physiology are recognized as national key disciplines, while Human Anatomy and Histology, Physiology, Pharmacology and Immunology are the provincial key disciplines.
Facts and Figures

- Doctoral Candidates: 190
- Master’s Candidates: 215
- Teaching Fellows & Research Assistants: 27
- Associate Professors: 41
- Core Teaching Faculty: 134
- Staff members: 197

Research

- Area: 30,000 square meters
- Equipments: 50 Million RMB
- National Nature Sciences Funding: over 30 Million RMB (35 projects)
- Publications (2013): 109 Papers Included in SCI

Key Laboratories

- Key Laboratory of the Ministry of Health: 1
  - Neurobiology
- State Key Laboratory of Food and Drug Administration and Disease: 1
  - Respiratory Drugs Research Laboratory
- Provincial Key Laboratory: 2
  - Proteomics
  - Tissue science and engineering Laboratory

* As of March 2014
Connecting the World

Main Academic Exchange Activities (2012-2013)

1. Delegation Visit from Wuhan University School of Basic Medical Sciences
   7 June 2012

2. BM1 Delegation Visit to The University of Edinburgh
   27-29 June 2012

3. BM1 Delegation Visit to Brown University
   30 August-9 September 2012

4. 1st Hangzhou-Edinburgh Joint Symposium on Biomedical Sciences held by the School of Basic Medical Sciences, Zhejiang University
   10-15 September 2012

5. BM1 Delegation Visit to University of Michigan-Shanghai Jiao Tong University Joint Institute
   13 September 2012

6. Academicians of the American Academy of Sciences—Dennis Marais and Christophe Benoist visit Research Center for Infection and Immunity
   12-15 October 2012

7. Delegation Visit from Guangzhou Medical University
   30 November 2012

8. Vice Dean, College of Medicine & Veterinary Medicine, University of Edinburgh
   7-8 January 2013

9. The First Exchange Meeting between members of the Comprehensive Advisory System in the School of Basic Medical Sciences and colleagues in Advising at Brown University
   23 April 2013

10. The Fourth Academic Annual Conference on Basic Medical Sciences, Zhejiang University
    26-27 January 2013
International Collaborations

To foster international collaborations with top-notch universities, the School has established collaborative relationships with the University of Edinburgh, Brown University, and the University of Pittsburgh.

The University of Edinburgh

Virtual cooperation has been established with the University of Edinburgh, which is among the world’s top 20 universities. According to the Agreement for the 3+1 Degree Programme, students complete a BSc degree in Biomedical Sciences at the School of Basic Medical Sciences over a three-year period followed by a year of study in the University of Edinburgh leading to the award of an MSc in Biomedical Sciences from University of Edinburgh.

Brown University

To improve the advisory system and forge future collaboration with Brown University, a BMS delegation visited Brown University to get a whole picture of in-depth operation and management of the advisory system. Based on this, our School designed the Advisory System of Biomedical Sciences, which consists of five parts: General Advisor, Research Mentor, Prezimen Counselor, Peer Advisor and English Advisor. A system that is suitable for us has been put into operation and will be revised continuously.

The University of Pittsburgh

The University of Pittsburgh, one of the oldest and most distinguished comprehensive universities in the USA, holds a leading position in medical research. With the support of Zhejiang University, a memorandum of co-operation has been signed to jointly educate students to the Masters and Doctoral levels.

The University of Hong Kong

School of Basic Medical Sciences and LI KA SHING Faculty of Medicine, the University of Hong Kong have mutually agreed to start up the summer camp from this June. The exchange named “Asian Leaders in BMS of Future” aims to strengthen the academic exchange in biomedical sciences.
Medical Anatomy Museum Project

Zhejiang University Museum of Medical Anatomy offers a variety of information and provides education about the human body. It has a collection of more than 2,000 specimens. It is free and open to ZJU students every Saturday. There is one guided tour per month to raise interest in the human body and medicine and popularize basic medical science.

- 500 square meters
- Antechamber
- Lecture Hall
- Hall of Human Anatomy
- Hall of Pathological Anatomy
- Hall of Embryonic Development
- Hall of Anomalies.

Summer School Projects

Summer School Projects are mainly aimed at sophomores and junior students in Zhejiang University. To further widen students’ global perspectives and develop their creativity and interest in research, our School has provided financial support for first-year BMS students to attend Summer School at universities such as UC Berkeley, the University of Edinburgh, and the University of Sydney. About 20 students will be given grants that cover most expenses.

Diversity on Campus

The Fourth Academic Annual Conference on Basic Medical Sciences

On 19 January 2014, the Fifth Academic Annual Conference on Basic Medical Sciences was held beside the beautiful Qianhai Lake on the Zijingang campus of Zhejiang University. This conference attracted a number of renowned professors and researchers from Beijing University, Fudan University, Shanghai Jiao Tong University, and Nanjing University. As remarked in the welcome message of our Dean, Professor Houwei OUYANG, the Conference would serve as a platform for the professors and researchers to display their hard work and creativity, and share their achievements.
Diversity on Campus

The Students Research

The Students Research Project (also called Xinmiao Talents Project) was first opened to freshmen in 2012. Three first-year students of Biomedical Sciences joined this scheme to gain hands-on experience of laboratory-based research under the guidance of our school’s academic staff. Through this program, it is hoped that the students can develop an interest in research.

Summer Camp

In July 2013, the National University Students Summer Camp was hosted by the School of Basic Medical Sciences at Zhejiang University and more than 88 students from over 30 high schools and biomedical sciences enthusiasts in Zhejiang Province participated in the week-long event.

This program stimulated young people’s interest in biomedical sciences, cultivated the spirit of exploration and innovation and laid a solid foundation for the training of talented young people in BMS.

Poster Day

The School organized its second Poster Day on 26 October 2012. This serves as a platform for both scholars and students to show their research over the past year and to share their findings with researchers from other Schools and universities.

A postgraduate student shared with judges and her fellow students about her research findings at the poster day.

Guest Lectures

Mike Shipston, Professor at the University of Edinburgh introducing Ion channel regulation by S-acetylation

Prof. Dick Swaab introduces We are our brain

Zhouwen Chen gives a lecture on Better Healthcare, Better Life
A BMS Individual, A Global Citizen, Future Leaders

To cultivate future leaders with an international vision
To pursue excellence with social responsibility
To develop innovation