



---

## Curriculum Vitae Professor Dr Maode Lai

**Name:** Maode Lai

**Date of birth:** 29 June 1960

**Research Priorities:** Molecular biology, tumour pathology, intestinal cancer, colorectal carcinoma, early cancer detection, risk markers, metabolic syndrome

Maode Lai is a Chinese pathologist. His research focuses primarily on tumour pathology, especially intestinal cancer. He identifies risk markers for early cancer detection and studies mechanisms of metastasis. He also examines the molecular foundations of metabolic syndrome. The results of his research have contributed to the development of personalised medicine.

### Academic and Professional Career

- |             |  |
|-------------|--|
| since 2013  | President, China Pharmaceutical University (CPU), Nanjing, China   |
| 1998 - 2012 | Vice-President, Zhejiang University, Hangzhou, China   |
| 1996 - 1998 | Vice-President, Zhejiang Medical University, Hangzhou, China (since 1998: Zhejiang University), Hangzhou, China  |
| since 1995  | Chairperson, Department of Pathology, Zhejiang University, Hangzhou, China   |
| since 1994  | Professor of Pathology, Department of Pathology, Key Laboratory of Disease Proteomics of Zhejiang Province, School of Medicine, Zhejiang University, Hangzhou, China |
| 1991 - 1994 | Associate Professor of Pathology, Zhejiang Medical University, China   |
| 1990        | PhD in Pathology, University of Lübeck, Lübeck, Germany  |
| 1989 - 1990 | Degree in Pathology, University of Lübeck, Lübeck, Germany   |
| 1987        | Master's Degree in Medicine, Zhejiang Medical University, Hangzhou, China  |
| 1984 - 1987 | Degree in Pathology, Zhejiang Medical University, Hangzhou, China  |

1982 - 1984      Degree in Medicine, Zhejiang Medical University, Hangzhou, China

### **Functions in Scientific Societies and Committees**

since 2010      Chairperson, Chinese Society of Pathology (CSP), China

since 2010      Chairperson, Zhejiang Pathology Association, Hangzhou, China

since 2007      Vice Chairperson, CSP, China

since 2007      Vice Chairperson, National Committee of Medical Education of Basic Sciences,  
Ministry of Education, China

2005 - 2009      Vice Chairperson, Committees for Tumour Pathology, Chinese Anti-Cancer Association  
(CACA), China

since 2004      Chairperson, Zhejiang Pathology Association, Hangzhou, China

since 1999      Vice Chairperson, Zhejiang Medical Association, Hangzhou, China

Editor in Chief, Journal of Zhejiang University

Associate Editor, Chinese Journal of Pathology

Associate Editor, Practical Journal of Oncology

Associate Editor, Chinese Journal of Clinical and Experimental Pathology

Member, Editorial Board, Clinica Chimica Acta

### **Project Coordination, Membership in Collaborative Research Projects**

2011 - 2014      Director, Research Programme "Mechanism of epithelial-mesenchymal transition in  
metastasis of colorectal carcinoma", National Natural Science Foundation of China (NSFC),  
China

2010 - 2012      Co-Organiser, Project "The molecular mechanism of cancers, Sino-German Center", NSFC,  
China and German Research Foundation (DFG)

2010 - 2012      Principal Investigator, Project "Regulation mechanism of Reg IV in colorectal tumor", NSFC,  
China

2009 - 2013      Director, Project "Early identification and intervention technique of metabolic syndrome",  
Ministry of Science and Technology of the People's Republic of China, China

2008 - 2010      Principal Investigator, Project "Regulation mechanism of IGFBP-rP1 methylation", NSFC,  
China

2007 - 2010      Principal Investigator, Project "Development of diagnostic techniques of malignancies",  
Municipal Science and Technology Bureau, Taizhou, China

2007 - 2012	Co-Investigator, Project "Clinical evaluation of tumour bio markers of common malignancies", Ministry of Science and Technology of the People's Republic of China, China
2007 - 2010	Co-Investigator, Subproject "Structure and function of IGFBP-7", 973-Project, Ministry of Science and Technology of the People's Republic of China, China
2006 - 2008	Principal Investigator, Project "Regulation of IGFBP-7 expression and Identification of effective molecules", NSFC, China
2004 - 2006	Principal Investigator, Project "Identification of C6orf37 homologous sequence in the colonic carcinogenesis", NSFC, China
2001	Principal Investigator, Project "CpG island aberrant methylation in morphologically normal mucosa adjacent to colorectal carcinomas", NSFC, China

### **Honours and Awarded Memberships**

2011	Top Specialist, Zhejiang Province, China
2011	First Award of Science and Technology, Zhejiang Province, China
2005	First Award of Science and Technology, Zhejiang Province, China
2004	Second Award of Science and Technology, Zhejiang Province, China
2003	Outstanding Youth Scientist Award, Zhejiang Province, China
1998	Third Award of Science and Technology, Zhejiang Province, China
1994	Third Award of Science and Technology, Zhejiang Province, China
1993	Excellent Teacher Award, Ministry of Education, China
1990	Huo Yingdong Excellent Young Teacher Award, Ministry of Education, China
1988	Second Award of Science and Technology, Ministry of Health, China

### **Research Priorities**

Maode Lai is a Chinese pathologist. His research focuses primarily on tumour pathology, especially intestinal cancer. He identifies risk markers for early cancer detection and studies mechanisms of metastasis. He also examines the molecular foundations of metabolic syndrome. The results of his research have contributed to the development of personalised medicine.

Intestinal cancer can occur frequently within families; the reasons may lie in a genetic predisposition, but they may also be lifestyle-related. Maode Lai researches the molecular foundations of intestinal cancer (colorectal carcinoma) and, in particular, looks for risk genes for the development of intestinal cancer. He initiated a platform allowing for the systematic cataloguing and comparison of identified genetic mutations.

In many cancer patients, metastases form, a process in which epithelial mesenchymal transition (EMT) is involved. During this process, tumour cells detach themselves from the cell structure, move into tissue and blood and lymphatic vessels, and form metastases there. Maode Lai sequences tumour samples and studies these mechanisms. Together with his team, he develops molecular tests in order to identify biomarkers for early cancer detection, in particular intestinal cancer and liver metastases. This means that at-risk patients can be offered early treatment strategies.

His group was able to show that the protein IGFBP7 plays an important role in insulin resistance and is associated with metabolic syndrome. Metabolic syndrome comprises illnesses characterised by, among other things, blood pressure, blood lipid, and weight values and which, when aberrational, increase the risk of cardiovascular disease and certain cancers. Maode Lai aims to further demystify the foundational mechanisms.