

CURRICULUM VITAE—for Italy visiting professorship.

Guixue Wang Ph. D.

Professor in Biomedical Engineering

Key Laboratory of Biorheological Science and Technology, Ministry of Education;
State and Local Joint Engineering Laboratory in Vascular Implants; Bioengineering
College of Chongqing University, Chongqing, China

ACADEMIC/WORK EXPERIENCE

April 2017—July 2017, Advanced Visiting Professor, London King's College

January 2015—present, Dean, Professor, Bioengineering College of Chongqing University, China. Director, State and Local Joint Engineering Laboratory in Vascular Implants.

June 2013—July 2013, Advanced Visiting Professor, Aalborg Hospital, Aarhus University, Denmark

August 2008—present, Director, Public Experiment Center of National Biological Industrialization Base (Chongqing), China

December 2008—present, Director, Chongqing Engineering Laboratory in Vascular Grafts, Chongqing, China

March 2008—August 2008, Advanced Visiting Professor, Center for Surface Science and Plasma Technology, University of Missouri-Columbia, USA

January 2006—present, Professor and Principal Investigator, National “111 project” Laboratory of Biomechanics and Tissue Repair, College of Bioengineering, Chongqing University, China

June 2005—present, Director of Research Center on Bioinformatics and Instruments; Associate Dean, National “985 Project” Institute of Biorheology and Gene Regulation Technique, Chongqing University, China

October 2003—April 2004, Visiting Professor, University of Missouri-Columbia, USA

January 2002—present, Director, Research Center of Applied Biotechnology, Chongqing University, China

July 2002—December 2014, Associate Dean, College of Bioengineering, Chongqing University, China

September 2000—present, Professor, College of Bioengineering, Chongqing University, China

As Editorial Board Member : Journal of Medical and Biological Engineering, AIMS Bioengineering, Journal of Cardiology Therapy

As academic project review expert: China National Natural Science Funding, China Ministry of Science and Technology, Chongqing Commission of Science and Technology.

Since 2010, Expert Scientist Consultant, American Nanomedicine Institute, Columbia, MD 21044 USA

Since 2010, Expert Scientist Consultant, Biomedicine and Medical Device R/D Center, Chongqing Academy of Science and Technology, Chongqing, China

5 recent publications :

Polymeric nanomicelles: a potential hazard for the cardiovascular system?

Wang Y, Wang G.

Nanomedicine (Lond). 2017 May 19. doi: 10.2217/nnm-2017-0099. (*Editorial Review*)

Reversible stress softening in layered rat esophagus in vitro after potassium chloride activation.

Jiang H, Liao D, Zhao J, Wang G, Gregersen H.

Biomech Model Mechanobiol. 2017 Jun;16(3):1065-1075. doi:

10.1007/s10237-017-0873-y. Epub 2017 Jan 23.

Re-Endothelialization Study on Endovascular Stents Seeded by Endothelial Cells through Up- or Downregulation of VEGF.

Wu X, Zhao Y, Tang C, Yin T, Du R, Tian J, Huang J, Gregersen H, Wang G.

ACS Appl Mater Interfaces. 2016 Mar 23;8(11):7578-89. doi:

10.1021/acsami.6b00152. Epub 2016 Mar 1

PEG-b-PCL polymeric nano-micelle inhibits vascular angiogenesis by activating p53-dependent apoptosis in zebrafish.

Zhou T, Dong Q, Shen Y, Wu W, Wu H, Luo X, Liao X, Wang G.
Int J Nanomedicine. 2016 Dec 5;11:6517-6531. eCollection 2016.

Controlled Slow-Release Drug-Eluting Stents for the Prevention of Coronary Restenosis: Recent Progress and Future Prospects.

Hu T, Yang J, Cui K, Rao Q, Yin T, Tan L, Zhang Y, Li Z, Wang G.
ACS Appl Mater Interfaces. 2015 Jun 10;7(22):11695-712. doi:
10.1021/acsami.5b01993. Epub 2015 May 26. Review

An Brief Biography of Professor Guixue Wang:

Dr. Guixue Wang was born in 1963 in Chongqing, China, and holds a Biomedical Ph.D. from Chongqing University (CQU), China; and had a postdoctoral training at Department of Surgery and Quebec Biomaterials Institute, Canada. During October 2003—April 2004 as well as March 2008 to August 2008, he had been as advanced visiting professor at Center for Surface Science and Plasma Technology, University of Missouri-Columbia, and at Aalborg Hospital, Aarhus University, Denmark during June 2013—July 2013, and at London King's College during April 2017—July 2017.

Since 2000 he has been as Professor, College of Bioengineering, CQU. In 2002 he was promoted as Associate Dean, College of Bioengineering, CQU. Currently he serves as Dean, College of Bioengineering, CQU. He is also Director of Chongqing Engineering Laboratory in Vascular Grafts, Director of Public Experiment Center of National Biological Industrialization Base (Chongqing) and Director of State and Local Joint Engineering Laboratory in Vascular Implants.

His areas of research interests involve cardiovascular biomechanics, biomedical materials, rehabilitation engineering, atherosclerosis, biotechnology and bioengineering, cellular and molecular biotechnology, nanomedicine.

His current research interest has been focusing on the development of novel intravascular stents and vascular grafts with anti-thrombosis and anti-restenosis ability, the effects of hemodynamic factors on cardio-cerebral-vascular development, mechanical signal transduction and vascular remodeling using zebrafish and mouse model, in vivo investigations on the effects of LDL concentration polarization and hemodynamics on atherosclerotic localization in zebrafish, the roles of blood flow in regulating zebrafish caudal vein plexus angiogenesis by inducing bmp signaling, the roles of BMP3 in integrity of blood brain barrier by promoting pericyte coverage in

zebrafish embryos. He is also interested in the aspect of surface modification of biomedical materials by surface chemistry, surface roughness and micro-patterns, surface wettability, low-temperature plasma deposition technique and so on.

Since 2005 he has taken charge of over 18 grant projects from the National Natural Science Foundation of China, the National Key Technology R & D Program of China, Major Project of Commission of Development and Reform of China, total fiscal support of over 30 million RMB ; published more than 100 papers in *Biomech Model Mechan.*, *Ann Biomed Eng.*, *ACS Appl Mater Interfaces*, *Acta Biomater*, *J R Soc Interface*, *BBA-Mol Cell Res*, *Colloid Surface B*, *J Biomed Mater Res A*, *J Vasc Surg*, and other journals. He has also obtained about twenty authorized invention patents such as a novel drug eluting stent, spraying method and equipments of drug eluting intravascular stents, and was awarded four prizes for scientific and technical progress, and natural science by provincial governments.

Other research team members:

Mr. Zhiyi Ye, PhD. Associate prof. , Biomedical engineering (3D printing)

Mr. Yong Wang, PhD. Associate prof. , Material science and engineering

Ms Liying Qiao, PhD. Associate prof. , Material science and engineering

Ms Lin Chen, PhD. Assistant prof. , Biomedical image

Mr Jixing Ye, PhD, Postdoctor, Bone tissue repair

Mr Zheng Liu, Postgraduate student, Biomechanics and tissue repair

Mr Shicheng He, Postgraduate student, Biomechanics and remodeling

Prof. Wang Guixue