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[\[Academic Activity\] Academia Sinica's 2010 Lecture in Honor of Former President Ta-You WU: Academician Kuan WANG to Lecture on Use of Nanotechnology in Medicine](#)

[Academic Activity] Academia Sinica's 2010 Lecture in Honor of Former President Ta-You WU: Academician Kuan WANG to Lecture on Use of Nanotechnology in Medicine ([Chinese Version](#))

Academia Sinica Newsletter (2010/09/03) Academician Kuan WANG, a Distinguished Research Fellow of the Institute of Biological Chemistry and the Institute of Physics at Academia Sinica, will give a lecture in honor of Former President Ta-You WU on September 11, 2010. In the lecture entitled "Nanomedicine: One Small Step for Technology, One Giant Leap for Medicine", Academician WANG will present a general survey of recent advances in nanomedicine including drug delivery, drug discovery, diagnostics, in vivo imaging and, in particular, the role of mechanics in stem-cell differentiation and regenerative medicine. The lecture will be in Chinese. Media and the public are welcome to attend.

Nanomedicine is an emerging discipline that applies nanotechnology to medicine. It involves the design and fabrication of tiny bio-compatible materials and devices on the nanometer scale. Successful fusion of nanotechnology and medicine offers promise for reshaping the field of medicine and is essential for translational and personalized medicine. In this lecture, Academician Kuan WANG will discuss how nanotechnology helps tackle the task of molding materials and devices into small, full-featured "body friendly" ones, a major challenge in innovating medical applications. He will also highlight the necessity of a highly interdisciplinary and interactive scientific team of biologists, chemists, physicists, mathematicians, engineers and physicians for success in the field.

Academician WANG was recently appointed as a Distinguished Research Fellow of the Institute of Biological Chemistry and the Institute of Physics at Academia Sinica. He has spent the past 13 years at the US National Institutes of Health (NIH), working as the lab chief of the Laboratory of Muscle Biology and the section head of the Muscle Proteomics and Nanotechnology at the National Institute of Arthritis and Musculoskeletal and Skin Diseases. He has served as a member of the NIH Nanomedicine Roadmap Implementation Team since its inception. Before arriving at the NIH, Academician WANG was a Professor of Chemistry and Biochemistry at the University of Texas at Austin for 20 years. He received his Ph.D. in molecular biochemistry and biophysics from Yale University in 1974.

Academician WANG's research focuses on the nanomechanics of contractile proteins and the application of proteomics, nanotechnology and a broad range of interdisciplinary approaches in exploring how cardiac and skeletal muscles generate force and respond to stress. He directs an interdisciplinary team of biologists, chemists, engineers and physicists, to advance nanobiotechnology to address a variety of bodily dysfunctions at the molecular level.

Online registration:

<http://www.sinica.edu.tw/sc.html>

Event: 2010 Lecture in Honor of Former President Ta-You WU—  
Nanomedicine: One Small Step for Technology, One Giant Leap for Medicine

Time: 14:00-16:00

Date: Saturday, September 11, 2010

Venue: Conference Room 1, 2F, Center for Academic Activities, Academia Sinica, No.128, Sec.2, Academia Road, Nangang District, Taipei City

Speaker: Academician Kuan WANG

Director, Nanomedicine Program, Academia Sinica

Distinguished Research Fellow, Institute of Biological Chemistry and Institute of Physics, Academia Sinica

Moderator: Academician Andrew H.-J. WANG, Vice President, Academia Sinica

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Reference:

[Academia Sinica Newsletter 2010/09/03](#)

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[National Science Council International Cooperation Sci-Tech Newsbrief](#)  
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