

國立清華大學  
生命科學院

NATIONAL TSING HUA UNIVERSITY  
COLLEGE OF LIFE SCIENCE

Special Seminar

Title : **Electron microscopy of *C. elegans*: looking back and looking forward**

Speaker : **Prof. David Hall (Editor-in-Chief of WormAtlas and WormBook)**  
**Department of *C. elegans* Anatomy,**  
**Albert Einstein College of Medicine,**  
**Bronx, New York**

Time : 10:00 AM, Saturday, Nov. 1, 2014

Place : General Building II, Conference Room 8F

Host : Dr. Oliver Wagner

Language : English

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Abstract:

The nematode *Caenorhabditis elegans* was first chosen as a "model animal" 50 years ago by Dr. Sydney Brenner. One feature that helped *C. elegans* to be chosen was its anatomical simplicity, with the goal to learn the entire anatomy at the EM level for every cell. After decades of work in several labs, this vision has been achieved. My lab is devoted to bringing a full EM description to the web on WormAtlas. We have gone beyond this goal to study the anatomical features of many developmental mutants with relevance to human disease, to study the anatomy of aging, and to improve our understanding of the wiring diagram that underlies the animal's adult behavior. In this presentation I will introduce some of the new techniques that continue to yield new insights into nematode anatomy.