



中国科学院生物物理研究所

## 贝时璋讲座

### A Neat Approach to Neuroprotection: Throw Away the Trash

报告人：Dr. Monica Driscoll

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报告地点：生物物理研究所 9501会议室

主持人：张宏研究员

### 报告人简介

Dr. Monica Driscoll is a distinguished professor of Rutgers University. Her research interests are anchored in a long-term dedication to understanding the basic biology of healthy aging, exploiting powerful experimental advantages in *C. elegans* to address questions relevant to major problems in human health.



### 代表成果

1. Hong, K., and Driscoll, M. 1994. A transmembrane domain of the putative channel subunit MEC-4 influences mechanotransduction and neurodegeneration in *C. elegans*. *Nature* 367: 470-473.
2. Herndon, ..., and Driscoll, M. Stochastic and genetic factors influence tissue-specific decline in ageing *C. elegans*. 2002. *Nature* 419: 808-14.
3. Xu, K., ..., and Driscoll, M. 2001. Necrotic cell death in *C. elegans* requires the function of calreticulin and regulators of Ca<sup>2+</sup> release from the endoplasmic reticulum. *Neuron* 31: 957-971.
4. Bianchi, L., ..., and Driscoll, M. 2004. The neurotoxic MEC-4(d) Na<sup>+</sup> channel conducts calcium: implications for normal and aberrant activities of DEG/ENaC channels. *Nature Neurosci.* 7: 1337-1344.
5. Toth, M., ..., and Driscoll, M. 2012. Neurite sprouting and synapse deterioration in the aging *C. elegans* nervous system. *J. Neurosci.* 32: 8778-90.