



CDB SEMINAR

Andrew Singson

Waksman Institute & Department of Genetics
Rutgers University

Friday, January 15, 2010
13:30~14:30 A7F Seminar Room

Gamete activation and interactions required for reproductive success in *C. elegans*.

Summary

Reproductive success requires that two haploid cells – sperm and egg – unite to form a diploid zygote. From extensive study, the major events of fertilization are known in some detail. However, the molecular underpinnings of these events generally remain elusive. We are taking advantage of the *Caenorhabditis elegans* model system to address the molecular mechanisms of fertilization. One of the most significant advantages of *C. elegans* is our ability to isolate and maintain mutants that affect sperm or eggs and no other cells. I will discuss our discovery and analysis of molecules that function specifically during gamete activation and interactions. This work could also provide insights relevant to other important cell-cell interactions during the life and development of multicellular organisms.

Host:

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