



Apoptotic cell death during *C. elegans* development: new layers of regulation



During *C. elegans* development, 131 somatic cells reproducibly die. Genetic studies have demonstrated that most of these cells die through a process that we now refer to as apoptotic cell death. To gain insight into the mechanism(s) through which apoptotic cell death is regulated during *C. elegans* development, we are studying the death of specific cells. This revealed that the cell death fate of cells is determined by their mothers. Furthermore, we found that the apoptotic cell death pathway is already activate in mothers and that its activity contributes to the ability of mothers to divide asymmetrically and to generate a daughter that is programmed to die. Therefore, we have uncovered a novel role of the apoptotic cell death pathway in asymmetric cell division.

Dr. Barbara Conradt

Professor and Chair of Cell and Developmental Biology

Ludwig-Maximilians-University of Munich

Host: Dr. Brent Derry

Date: Wednesday, August 29, 2018

Time: 3:00 PM

Place: CCBR Red Room