

The NO-Age and NO-AD Seminar Series 028

‘Mechanisms of Mitochondrial Inheritance and Radiation-Induced Bystander Effects’

by

Prof. Ding Xue

University of Colorado Boulder, USA

at

16:00-17:00 (CET), Monday, 25th Oct. 2021 (16:00 CET)

Register in advance for this webinar:

https://uio.zoom.us/webinar/register/WN_15W4q8iBS5qjy0bwLgJvdw

Organizers:

Evandro F. Fang (UiO), Jon Storm-Mathisen (UiO), Menno P. Witter (NTNU),
Lene Juel Rasmussen (KU), W.Y. Chan (CUHK)

Queries: e.f.fang@medisin.uio.no

Previous recorded talks are available here: <https://noad100.com/videos-previous-events/>



Speaker: Ding Xue

Title: 'Mechanisms of Mitochondrial Inheritance and Radiation-Induced Bystander Effects'

Abstract:

To be updated

Biography:

The Xue Laboratory was founded in the fall of 1997 with the express goal of studying the genetic and molecular mechanisms of programmed cell death. The laboratory has made numerous important contributions not just to the field of programmed cell death, but has extended its reach to several diverse research fields. The Xue Lab has recently redirected its focus to four major research areas: study of the genetics and molecular mechanisms that establish and maintain phospholipid asymmetry, characterization of the mechanisms and physiological significance of maternal mitochondrial inheritance during early development, analysis of radiation-induced bystander effects (RIBE) and its importance and applications in radiotherapy, and the use of *C. elegans* as an animal model to study various human disease and to perform drug discovery. In these pursuits the lab has very recently made significant contributions to our understanding of the mechanism of action of Hepatitis B Virus X protein, made key discoveries in the field of phosphotidylserine asymmetry and externalization (see below video). Beyond these contributions the Xue Lab has also made important discoveries in characterizing the chromosome fragmentation process during apoptosis, including the identification of the caspase-dependent conversion of the dicer ribonuclease into a deoxyribonuclease and multiple apoptotic nucleases involved in the process. We hope to continue to provide contributions to a wide array of research fields. For more detailed information about the projects studied by the Xue Lab, please see our Projects page: <https://mcdbiology.colorado.edu/labs/xue/projects.html>.

Name: Ding Xue

Institute: University of Colorado Boulder, USA

Email: ding.xue@colorado.edu

Lab:

<https://mcdbiology.colorado.edu/labs/xue/>

Photo: colorado.edu