UVA Health

UVA CANCER CENTER
An NCI-Designated Comprehensive Cancer Center

Cancer Center Seminar Series

Hybrid Event

Friday, May 12, 2023
12:30- 1:30 PM

Pinn Hall, Room 1014*
or
Click here to join via Zoom
Meeting ID: 927 4018 2908
Passcode: 285036

*Lunch will be served from noon-12:30 p.m.

Chromosome Segregation Conundrums: Cleavage is Not Sufficient to Open the Cohesin Ring

Olaf Stemmann, PhD
Chair and Professor of Genetics,
University of Bayreuth, Germany

Host: Todd Stukenberg, PhD

Five Reasons to Attend this Seminar:

1. **How is separase, the trigger protease of sister chromatid separation, regulated in the absence of securin?**
2. **Does the spindle assembly checkpoint (SAC) have targets other than the anaphase-promoting complex (APC/C-Cdc20)?**
3. **Shugoshin 2 protects Rec8-cohesin in meiosis - but what does it do in somatic cells, which do not express Rec8?**
4. **Cohesin provides a topological linkage between sister chromatids, yet the ring can be cleaved without falling off DNA. How is that possible?**
5. **HDAC8, the Smc3 deacetylase, can only act on soluble but not DNA-associated cohesin. Why then does its acute inhibition cause chromosome missegregation?**

If you have questions or feedback, or if you would like to host a seminar in the future, please email Muzet Felgar at mf8uh@uvahealth.org for available dates. Potential hosts are strongly encouraged to invite diverse speakers.

UVA Comprehensive Cancer Center's Statement on Diversity

The complete Seminar Series schedule is available online.