



## FASEB Catalyst Conferences

### Imaging Cells to Organisms for Basic Science and Medical Research

Wednesday, April 14, 2021

*This Catalyst conference, in collaboration with the Sena Institute of Technology African Seminar Series, will bring together academic and clinical partners across the globe. It focuses on engaging researchers from the African continent to discuss emerging technologies on biological imaging and their applications in medical research. This short conference acts as a primer for the FASEB conference “Imaging Cellular and Chromosome Dynamics Conference”, which will be hosted in Accra, Ghana in October 2022.*

#### Conference Organizers:

- [Akwas Agbleke](#), Ph.D, Harvard Center for Biological Imaging, and President of Sena Institute of Technology, Penyi, Ghana
- [Thomas Broker](#), Ph.D, Biochemistry and Molecular Genetics, University of Alabama at Birmingham
- [Andrew Seeber](#), Ph.D, Center for Advanced Imaging at Harvard

Time (US East)	Time (GMT)	Agenda <i>(Schedule is subject to change. All speakers will present live and will not be recorded.)</i>
9:00 am – 9:10 am	1:00 pm – 1:10 pm	FASEB Welcome & Organizer Welcome
9:10 am – 10:10 am	1:10 pm – 2:10 pm	<b>How chromosomes direct their own segregation in <i>Drosophila</i> oocytes</b> Kim McKim, Ph.D, Professor, Department of Genetics, Rutgers University, USA
10:10 am – 10:50 am	2:10 pm – 2:50 pm	<b>Live super-resolution imaging of chromatin structure and dynamics</b> Haitham Shaban, Ph.D, Research Fellow, Swiss Federal Institute of Technology Lausanne (EPFL), Switzerland, and National Research Centre, Egypt
10:50 am – 11:30 am	2:50 pm – 3:30 pm	<b>Dynamics of RecA-mediated repair of replication-dependent DNA breaks</b> Vincent Amah, Ph.D, Lecturer, Department of Medical Biochemistry, University of Ghana, Ghana
11:30 am – 11:40 am	3:30 pm – 3:40 pm	<b>Break</b>
11:40 am – 12:40 pm	3:40 pm – 4:40 pm	<b>Combining quantitative imaging and mathematical modeling to understand nuclear movements in early embryos</b> <b>Keynote Speaker:</b> Cassandra Extavour, Ph.D, Professor, Departments of Molecular and Cellular Biology; Organismic and Evolutionary Biology, Harvard University, USA
12:40 pm – 1:40 pm	4:40 pm – 5:40 pm	<b>Clarifying Tissue Clearing</b> Doug Richardson, Ph.D, Director, Harvard Center for Biological Imaging, Harvard University, USA
1:40 pm – 2:00 pm	5:40 pm – 6:00 pm	<b>Organizer’s Closing Remarks and breakout discussions</b>