

Feb 27 – Mar 1 • Tutorials on phylogenetics and molecular evolution

# Evolutionary Origins Of Compartmentalized Cells

This program explores the ancient origins of the eukaryotic compartmentalized cell plan. Major eukaryotic features – the nucleus, mitochondria, endomembrane traffic, the cytoskeletal machinery – first emerged following the global oxygenation event 2.5 billion years ago. We will discuss the molecular machinery that underlies these features, and chart their evolution, on the billion-year branch of the tree of life leading to modern-day eukaryotes. The program will include tutorials for those new to the field, as well as research talks. We invite participation from biophysicists, cell and evolutionary biologists, and computational biologists; and we especially welcome graduate students and post-doctoral researchers interested in this emerging area of research.

Feb 19 – Mar 02 2012

Image credit: Mystery Sand Mosaic By Shorty Lungkarta Tungurrayi

Feb 20 – 22 • Tutorials on cell biology and molecular machines

Feb 23 – 25 • Research talks on topics in eukaryotic evolution

## SPEAKERS

*Laurent Abi-Rached* (Stanford University)  
*Nadav Ahituv* (UCSF)  
*Mohan Balasubramanian* (TLL Singapore)  
*Monica Bettencourt-Dias* (IGC Portugal)  
*Damien Devos* (EMBL)  
*Mara Duncan* (University of North Carolina)  
*Nels Elde* (University of Utah)  
*Mark Field* (University of Cambridge)

*John Fuerst* (University of Queensland)  
*Tobias Kloepper* (MRC-LMB)  
*Alberto Luini* (TIGEM)  
*Michael Lynch* (Indiana University)  
*Harmit Malik* (FHCRC)  
*William Martin* (University of Duesseldorf)  
*Mary Munson* (University of Massachusetts)  
*Paul Norman* (Stanford University)

*Peter Parham* (Stanford University)  
*Jose Pereira-Leal* (IGC Portugal)  
*Suzanne Pfeffer* (Stanford University)  
*Michael Rout* (Rockefeller University)  
*Philip Stahl* (Washington University)  
*Aaron Turkewitz* (University of Chicago)  
*Margaret Robinson* (University of Cambridge)