

# The U54 Vanderbilt Center for Cancer Systems Biology is Hosting a Workshop:

Join us! Programming Experience Not Required!

# Computational Approaches to Study Cancer Heterogeneity August 21-22, 2019

### August 21, 2019 (9:00 AM-5:00 PM)

- Ken Lau, "Understanding cell phenotype trajectory analysis with pCreode"
- Carlos Lopez, "Modeling cell populations and signaling processes with PySB"
- Paul Macklin, "3D cell simulations with PhysiCell and NanoHUB"
- Christian Meyer, "Drug synergy with MuSyC"

### August 22, 2019 (9:00 AM-12:15 PM)

- Jonathan Irish, "Cyborg learning: Data science tools for cancer biologists (UMAP, t-SNE, FlowSOM, MEM, and PCA)"
- Alex Lubbock, "Cell response to treatments with Thunor"

## Space is limited!

# **Register Now!**

This workshop is designed to provide a basic foundation of key computational approaches for studying cancer heterogeneity. Our trained instructors will lead you through comprehensive overviews and hands-on demonstrations of fundamental computational tools.

Need an introduction to programming before the workshop? Contact Dr. Amanda Linkous (amanda.linkous@Vanderbilt.Edu) to register for an introductory software carpentry workshop on August 19-20, 2019.



