

Summary of new PS-ON members in 2015

NCI supports the integration of physical sciences and cancer research with 1 new Physical Sciences-Oncology Center (PS-OC) and 5 new Physical Sciences-Oncology Projects (PS-OPs).

The PS-OCs and PS-OPs make up the collaborative Physical Sciences-Oncology Network (PS-ON).

The newly awarded PS-ON members that will be supported from 2015-2020 are:

Moffitt Cancer Center PS-OC: “Cancer as a Complex Adaptive System”

Drs. Robert Gatenby, Robert Gillies, and Alexander Anderson

Harvard University PS-OP: “Epithelial Layer Jamming in Breast Cancer Cell Migration”

Dr. Jeffrey Fredberg

Massachusetts Institute of Technology PS-OP: “Quantitative Analyses of Tumor Cell Extravasation”

Dr. Roger Kamm

University of California, Berkeley PS-OP: “ECM Geometrical and Mechanical Properties Modulate RTK Signaling”

Drs. Jay Groves and Valerie Weaver

University of Utah PS-OP: “Multi-Tensor Decompositions for Personalized Cancer Diagnostics and Prognostics”

Dr. Orly Alter

Vanderbilt University PS-OP: “Physical Dynamics of Cancer Response to Chemotherapy in 3D Microenvironments”

Drs. Lisa McCawley, Dmitry Markov, and Katarzyna Rejniak