PSOC Sedona Workshop Schedule

Cellular Differentiation and Response to Stress: Modeling Cancer Initiation and Progression

Hilton Resort and Spa, Sedona, AZ, August 29th - September 1st 2010

Sunday August 29th

Reception and Plenary Talk 6:00 - 8:00 pm
Paul Davies  Where is the epigenome? Top-down causation and the organization of living matter

Monday August 30th

Heterogeneity in Pre-malignant and Malignant Tissue
Morning session 9:00 - 12:30
Hal Berman  Tumor heterogeneity: a view from the front line
Beverly Emerson  It all starts with stress
Coffee break 10:30 - 11:00
Rod Smallwood  Computational tissueomics: computer science meets medical physics
Salvatore Torquato  Toward an Ising Model of cancer and beyond: a view from the CPU
Lunch 12:30 - 2:00

Evolution in Pre-malignant and Malignant Tissue
Afternoon session: 2:00 - 6:15
Michael Barrett  Genomic archaeology: how did things fall apart
Yosef Yardin  Genetic sociology: how the conversation breaks down
Coffee break 3:30 - 4:00

Sandy Anderson  Cancer ecology: modeling scales of competition
Jeff Trent  Genetic evolution in pre-malignant and malignant tissue
Tuesday August 31st

Developmental Biology, Plasticity and Cancer
Morning session: 9:00 - 12:30

David Schaffer  Walking the walk, and talking the talk of stem cells
Timothy Newman  Cancer is complex - but is it simple?

Coffee break 10:30 - 11:00

Paul Kulesa  Taming cancer cells at the neural crest
Luis Cisneros  Collective behavior arising from motility and signaling

Lunch 12:30 - 2:00

Influences of the Microenvironment on Development and Malignancy
Afternoon session: 2:00 - 5:30

Charles Little  The matrix - reloaded (and reconsidered)
Nastaran Kuhn  Engineering the location

Coffee break 3:30 - 4:00

Thea Tlsty  One rotten apple, or a rotten barrel?

Wednesday September 1st

Synthesizing discussions (topics to be decided during meeting) and hiking: 9:00 - 12:00

Lunch and farewells 12:00 - 2:00