

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