

BEYOND CENTER ‘CANCER FORUM’ WORKSHOP

Evolution, development and cancer: connecting the dots

Arizona State University

February 9 - 10, 2012

Draft Agenda

Wednesday February 8

6:00 – 7:30 pm Informal welcome reception, Tempe Mission Palms patio

Thursday February 9

Session 1: The evolutionary roots of cancer

Location: Tempe Mission Palms Hotel

9:00 – 9:15 am Paul Davies

Brief welcome address, outline of the subject and aims of the meeting

9:15 – 10:15 am Paul Davies and Charles Lineweaver

“Is cancer an atavism?”

10:15 – 10:45 am *Tea/coffee break*

10:45 – 11:30 Carlo Maley/Aurora

“An evolutionary theory of cancer”

Transfer to ASU Biodesign Auditorium

12:00 – 1:00 pm John Pepper

“Cancer as a failure of multicellularity”

1:00 – 2:00 pm *Lunch*

Session 2: Cancer’s place in the story of life

2:00 – 2:45 pm John Postlethwaite

“Roots of multicellularity”

2:45 – 3:30 pm James Shapiro

“Same”

3:30 – 4:00 pm Discussion

4:00 – 4:30 pm *Tea/coffee break*

4:30 – 5:15 pm Christine Chaffer

“Reversing time’s arrow: spontaneous stemness”

5:15 – 6:00 pm General discussion

7:30 pm Conference dinner at House of Tricks (optional)

Friday February 10

Session 3: Development and oncogenes

Location: Tempe Mission Palms

9:00 – 9:45 am Jean-Paul Thiery

“Cancer co-opts developmental pathways”

9:45 – 10:30 am John Eaton

“Embryonic genes re-awakened in cancer”

10:30 – 11:00 am *Tea/coffee break*

11:00 – 11:45 pm Tomislav Domazet-Loso

“Mining cancer genes in the fetus”

11:45 – 12:30 pm Discussion

12:30 – 2:00 pm *Lunch*

Session 4: Connecting the dots...

2:00 – 2:45 pm Chris McKay
“How can astrobiologists help tackle cancer?”

2:45 – 3:30 pm Stuart Newman

“Physics, genes and multicellular organization: what the evolution of developmental mechanisms can tell us about cancer”

3:30 – 4:00 pm Discussion

4:00 – 4:30 pm *Tea/coffee break*

4:30 – 5:00 pm Alvin Kho

5.00 - 6.00 Ending summary – Athena Akipis and general discussion

6:00 pm *Meeting ends*