

BEYOND CENTER FOR FUNDAMENTAL CONCEPTS IN SCIENCE

Cancer Metabolism, Oxidative Stress and the Warburg Effect

Arizona State University
Tempe, AZ
November 6-8, 2013

AGENDA

Wednesday, November 6

6:00 – 9:00 pm Welcome reception and dinner

Thursday, November 7

9:00 – 9:30 am Paul Davies

Brief welcome address and aims of the meeting

Session 1: Warburg revisited

Session Chair: Paul Davies

9:30 – 10:15 Tom Seyfried

“The renaissance of Warburg’s key idea”

10:15 – 10:30 Discussion

10:30 – 11:00 *Tea/coffee break*

11:00 – 11:45 Anne Devin

“On the origin of cancer cell energy metabolism”

11:45 – 12:00 Discussion

12:00 – 12:45 Benny Abraham Kaiparettu

“Cybrids as a probe of cancer metabolism”

12:45 – 1:00 pm Discussion

1:00 – 2:30 *Lunch*

Therapeutic implications:

Session Chair: Robert Elliott

2:30 – 3:00 Dominic D'Agostino

“Hyperbaric oxygen therapy”

3:30 – 4:00 Ali Tavassoli

“Metabolism and mitotic fidelity”

4:00 – 4:30 *Tea/coffee break*

4:30 – 5:00 Maarten Nijsten

“Using the Warburg effect against cancer by reducing glucose and providing lactate”

5:00 – 5:30 General discussion

Friday, November 8

Cancer as a window on the past

Session Chair: Luis Cisneros

9:00 – 9:45 Charles Lineweaver

“Tracing the evolutionary roots of cancer to a hypoxic past”

9:45 – 10:00 Discussion

10:00 – 10:45 Mark Vincent

"Cancer as a default survival program"

10:45 – 11:00 Discussion

11:00 – 11:30 *Tea/coffee break*

11:30 – 12:15 Eshel Ben-Jacob

"French Lilac, Malaria and the Logic of Cancer Metabolism"

12:15 – 12:30 Discussion

12:30 – 2:00 *Lunch*

The way ahead: theory, experiment and the clinic

Session Chair: Mike Espey

2:00 – 2:45 Jason Locasale

"Modeling glycolysis"

2:45 – 3:00 Discussion

3:00 – 3:45 TBA

"Overview"

3:45 – 4:00 Discussion

4:00 – 4:30 *Tea/coffee break*

4:30 – 5:30 General discussion and strategy for further research

5:30 pm *Meeting concludes*