

KAVLI INSTITUTE FOR THEORETICAL PHYSICS

Presents

The Forty-Second KITP Public Lecture

Sponsored by Friends of KITP

Paul Nurse

The Great Ideas of Biology

Three of the ideas of biology are the gene theory, the theory of evolution by natural selection, and the proposal that the cell is the fundamental unit of all life. When considering the question of what is life these ideas come together, because the special way cells reproduce provides the conditions by which natural selection takes place allowing living organisms to evolve. A fourth idea is that the organization of chemistry within the cell provides explanations for life's phenomena. A new idea is the nature of biological self organization on which living cells and organisms process information and acquire specific forms

About the Speaker

PAUL NURSE is a geneticist and cell biologist who has worked with the fission yeast to understand how the eukaryotic cell cycle is controlled and how cell shape and cell dimensions are determined. His major work has been on the cyclin dependent protein kinases and how they regulate onset of S-phase and mitosis and ensure there is only one S-phase each cell cycle. He is President of Rockefeller University, New York and previously served as Chief Executive of Cancer Research UK. He shared the 2001 Nobel Prize in Physiology or Medicine and has received the Albert Lasker Award and the Royal Society's Copley Medal.

Wednesday, February 24, 2010

8:00 PM (Reserved seats held until 7:50 PM)

Kavli Institute for Theoretical Physics, Main Seminar Room



Admission is Free
Seating is by RSVP only

Please e-mail:

events@kitp.ucsb.edu

or call

(805) 893-6349

by Feb. 22, 2010

**Reserved seats are held
until 7:50 PM**

*To make special arrangements to
accommodate a disability, call the
KITP at the number above.*

LOT 10 PARKING

From the roundabout at Hwy 217, turn right onto Mesa Rd, merge into left lane, turn left at the first light into Lot 10 parking structure. **PARK, BUY a \$3 permit** from the dispenser (near the elevator and stairs), **DISPLAY PERMIT** on dashboard. The KITP is right next door.

*The KITP gratefully acknowledges
its many friends in the community.*

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