



## The Scripps Research Institute

### Directions to Hyatt Regency La Jolla at Aventine

3777 La Jolla Village Drive, San Diego

#### From Interstate 5

Exit at LA JOLLA VILLAGE DRIVE and head East

Turn right into the hotel and follow signs to park



The Scripps Research Institute is one of the world's largest independent, non-profit biomedical research organizations. The mission of The Scripps Research Institute is to perform high impact basic biomedical research, improve the human condition by translating our discoveries into useful products and provide the highest quality scientific education and training.

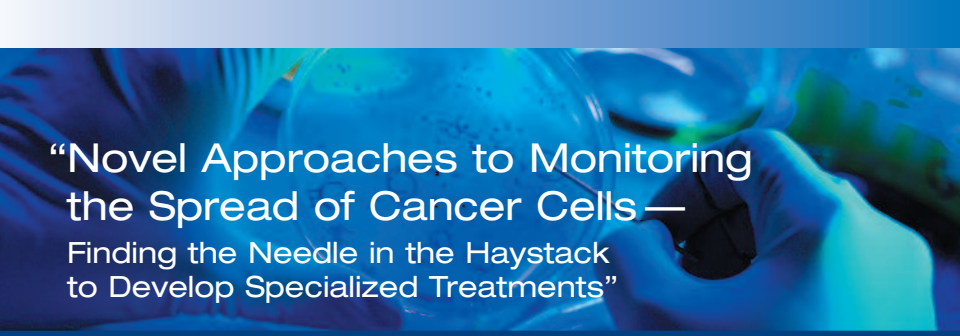
**10550 North Torrey Pines Road, TPC2  
La Jolla, California 92037 – 858.784.2915**



### Frontiers in Science

A series of lectures for donors and friends by scientists from The Scripps Research Institute on diseases, recent discoveries, and the application of knowledge to health care.





“Novel Approaches to Monitoring  
the Spread of Cancer Cells —  
Finding the Needle in the Haystack  
to Develop Specialized Treatments”



The Scripps Research Institute

While cancer patients are benefiting substantially from the availability of more and more treatment choices, new approaches are needed to make treatment decisions that are applicable to each individual patient.

Metastasis, the major cause of mortality in patients with cancer, is caused by tumor cells that escape from the primary tumor into the bloodstream and travel through the circulation to distant sites where they develop into secondary tumors.

The factors involved in circulating tumor cell (CTC) survival in the blood circulation and eventual metastases are not well understood. CTCs exist in the peripheral blood of cancer patients in low concentrations, making their isolation and identification a difficult task. It is like both finding a needle in a haystack and reading a book in a foreign language.

Scripps Research Associate Professor Peter Kuhn and his fellow biologists, physicists, and clinicians have developed a reliable way to detect and to characterize CTCs isolated from the blood of cancer patients, and are currently involved in multiple ongoing clinical trials.

The messages contained in the cells that they are uncovering could aid physicians in better utilizing current therapies, as well as developing specialized treatments in the future.

For details on Dr. Kuhn's work, please visit <http://cancer.scripps.edu>.

**Frontiers in Science – A Lecture and Reception**

“Novel Approaches to Monitoring  
the Spread of Cancer Cells —  
Finding the Needle in the Haystack  
to Develop Specialized Treatments”

**Featuring**

**Dr. Peter Kuhn**

Associate Professor, Department of Cell Biology  
The Scripps Research Institute

*Dr. Kuhn will be joined by a breast cancer survivor who will share her thoughts on his research from the patient's point of view.*

**Thursday, October 29, 2009, 6:00–7:00 p.m., Reception to Follow  
Hyatt Regency La Jolla at Aventine  
3777 La Jolla Village Drive**

Seating is limited.

Complimentary self parking available.

The wonder of The Scripps Research Institute multiplies when we're able to share our passion and excitement about improving health within the community — **Feel free to invite a friend or colleague** — we look forward to seeing you.

Please RSVP by Thursday, October 15, 2009 by contacting Madeline Fenner, 858.784.2915, [mfenner@scripps.edu](mailto:mfenner@scripps.edu)