



## Accelerated Technologies Center for Gene to 3D Structure

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<http://www.atcg3d.org>

*Principal Investigator Team:*

Lance Stewart, Peter Kuhn, Raymond Stevens

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January 29, 2009

### RE: ATCG3D Annual Scientific Meeting

Dear ATCG3D Investigator,

The "Accelerated Technologies Center for Gene to 3D Structure" is pleased to invite you to attend its Fourth Annual Scientific Meeting to be held Tuesday and Wednesday March 24-25, 2009 at The Scripps Research Laboratory in La Jolla, CA.

In our Fourth Annual ATCG3D Scientific Meeting, the Principal Investigators and key staff members will present progress on technology developments and GPCR target processing. A hands-on working review of the current state of microcapillary protein crystallization devices will be presented as well.

The meeting will provide a forum for broader discussion of the directions we should take in the final year of technology development and research at ATCG3D.

Over the last 20 months we have made important progress in both technology development and GPCR target processing as follows: (i) the Compact Light Source which has demonstrated X-ray diffraction with a protein crystal, (ii) microcapillary plug-based and counterdiffusion devices for nano-volume protein crystallization are at the commercialization stage; (iii) computer-aided synthetic gene design software and PCR based gene synthesis have been disseminated; and (iv) GPCR target structure determination work has begun.

Attached please also find the Logistical Information Sheet and Personal Travel Worksheet. If you have any questions or concerns, or if we may be of assistance in any way, please do not hesitate to contact Angela Clark at 206-780-8939, Carol Ruth at 650-320-8300 ex 402 or Elvia Nunez at 858-784-7078.

We are looking forward to welcoming you at TSRI.

For the ATCG3D

Lance Stewart, Ph.D.  
President, deCODE biostructures  
Principal Investigator for ATCG3D

Raymond Stevens, Ph.D.  
Professor, TSRI  
Co-PI for ATCG3D

Peter Kuhn, Ph.D.  
Assoc. Prof. TSRI  
Co-PI for ATCG3D

The Accelerated Technologies Center for Gene to 3D Structure ([www.ATCG3D.org](http://www.ATCG3D.org)) is a Specialized Center of the Protein Structure Initiative with generous funding from the NIGMS and NCRR



## AGENDA: ATCG3D Annual Scientific Meeting

### **Tuesday March 24, 2009**

- 6:00 pm – 6:30 pm Participant Arrival and Welcome (Peter Kuhn)
- 6:30 pm – 9:00 pm Dinner (onsite) presentation on GPCR Breakthrough (Ray Stevens)
- Structure of A2a
  - Future of GPCR PSI

### **Wednesday March 25, 2009**

- 8:00 am – 8:30 am Participant Arrival and Breakfast  
*Pastries, Juice and Coffee Served*
- 8:30 am – 9:30 am ATCG3D CLS (Ron Ruth, Jeff Rifkin, Michael McCormick)
- First protein crystal diffraction
  - Current state of CLS Prototype and ATCG3D CLS
  - Plans for ATCG3D CLS completion
- 9:30 pm – 10:30 pm Membrane Protein Crystallization by Plug-Based Methods (Rustem Ismagilov)
- LCP methods
  - Cyclodextrin gradient methods
  - Plans for advanced plug-based tech dev in FY05
- 10:30 am – 11:00 am Break
- 11:00 pm – 11:30 pm Computer Aided Synthetic Gene Design (Don Lorimer)
- Current feature set of Gene Composer
  - Application to automated PIPE cloning
- 11:30 am – 12:00 am Microcapillary Crystallization Devices (Lance Stewart)
- Current status of device development and commercialization
  - Application to soluble protein crystal optimization
- 12:00 pm – 1:30 pm Lunch and Tour of ATCG3D Lab at TSRI Facilities
- 1:30 am – 3:00 pm Demonstrations of Microcapillary Protein Crystallization
- CrystalSlides (Peter Clark)
  - CrystalCards (Cory Gerdtts)
  - LCP Methods (Liang Li)
- 3:00 pm – 4:00 pm GPCR Processing (Ray Stevens)
- Current technologies
  - ATCG3D target processing methods and current status
  - Plans for GPCR processing in FY05
- 4:00 pm – 4:30pm Break
- 4:30 pm – 5:00 pm IT Infrastructure and Other Technologies at ATCG3D (Peter Kuhn)
- Current status of C-ME
  - Crystal and LCP imaging systems
  - Interface to SGKB and plans for FY05
- 5:00 pm – 5:30 pm Open Discussion and Wrap-Up (Lance Stewart)

***ATCG3D Fourth Annual Scientific Meeting***

The Scripps Research Institute  
3535 General Atomics Court  
Suite GAC-1200  
San Diego, CA 92121  
March 24-25, 2009

**Anticipated Participant List**

The Scripps Research Institute

Ray Stevens, Peter Kuhn, Vadim Cherezov, Enrique Abola, Wei Liu, Peter Clark, Anand Kolatkar,  
Michael McCormick, Angela Walker, Elvia Nunez

deCODE biostructures

Lance Stewart, Cory Gerdt, Mark Mixon, Jeff Christensen, Don Lorimer

University of Chicago

Rustem Ismagilov, Liang Li

Lyncean Technologies, Inc.

Ron Ruth, Jeff Rifkin

Possible Other Industrial Partners

Richard Gray (Dolomite)

NIH and NCRR Officials

Charles Edmonds, Amy Swain, Ward Smith

**Accelerated Technologies Center for Gene to 3D Structure  
Fourth Annual Scientific Meeting**

**Logistical Information Sheet**

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**Meeting Date and Time:** Tuesday March 24, 2009 6:00 pm – 9:00 pm  
Wednesday March 25, 2009 8:00 am – 5:30 pm

**Meeting Location:** The Scripps Research Institute  
3535 General Atomics Court  
Suite GAC-1200  
San Diego, CA 92121  
Contact: Elvia Nunez at 858-784-7078

**Hotel Accommodations:** **Hilton La Jolla Torrey Pines**  
10950 North Torrey Pines Road  
La Jolla, CA 92037  
Tele: 877-414-8020; 858-558-1500  
Fax: 858-794-4055

A block of single sleeping rooms has been reserved at the Hilton La Jolla Torrey Pines for the night of March 24, at the rate of **\$189** plus **12.64%** tax. Please call 877-414-8020 between 7:00am-7:00pm Pacific Time to ensure the most efficient service. You may also visit [www.hiltonlajollatorreypines.com](http://www.hiltonlajollatorreypines.com).

**The Group / Convention code: SRIA.** Please reference this code when making your reservation. The room and tax will be billed directly to The Scripps Research Institute. If you have any questions, please contact Elvia Nunez or Angela Walker, contact information is below.

Please note the cut-off date for individual call-in reservations is **Monday, February 23, 2009.**

The hotel check-in time is 3:00pm and check-out time is 12:00pm. There is a 48-Hour Cancellation Policy for all hotel reservations. Please note that there is a \$25.00 charge for early arrivals (prior to 3pm), as well as a \$75.00 charge for all early departures.

**Travel Arrangements:** Please make your own travel arrangements. Directions to TSRI are listed at the end of this document.

**Contact Information:** For logistical questions and to make any special needs requests please contact:

Mrs. Elvia Nunez  
Administrative Assistant  
The Scripps Research Institute  
10550 North Torrey Pines Road, GAC-1200  
La Jolla, CA 92037  
e-mail: [enunez@scripps.edu](mailto:enunez@scripps.edu)

or  
Mrs. Angela Clark  
Office Manager  
deCODE biostructures  
7869 NE Day Road West  
Bainbridge Island, WA 98110  
e-mail: [aclark@decode.com](mailto:aclark@decode.com)

Mrs. Carol Ruth  
Finance and Human Resource Manager  
Senior Project Manager  
Lyncean Technologies, Inc.  
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Palo Alto, CA 94306  
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or  
Mrs. Angela Walker  
The Scripps Research Institute  
10550 North Torrey Pines Road, GAC-1200  
La Jolla, CA 92037  
e-mail: [alwalker@scripps.edu](mailto:alwalker@scripps.edu)

Please fax this form to Elvia Nunez at (858) 784-8996 or e-mail to [enunez@scripps.edu](mailto:enunez@scripps.edu), ASAP

## Personal Travel Worksheet

### ATCG3D Fourth Annual Scientific Meeting, March 24-25, 2009

Name: \_\_\_\_\_ Degree: \_\_\_\_\_

Title: \_\_\_\_\_

Organization: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zipcode: \_\_\_\_\_

Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail address: \_\_\_\_\_

MAC address (e.g., 00-12-17-7B-4A-E6): \_\_\_\_\_

#### **Itinerary:**

From: \_\_\_\_\_ To: \_\_\_\_\_  
(City and State) (City and State)

Date and Time of Departure: \_\_\_\_\_

Date and Time of Arrival: \_\_\_\_\_

Flight Information: \_\_\_\_\_

#### *Return flight itinerary:*

From: \_\_\_\_\_ To: \_\_\_\_\_  
(City and State) (City and State)

Date and Time of Departure: \_\_\_\_\_

Date and Time of Arrival: \_\_\_\_\_

Flight Information: \_\_\_\_\_

#### ***Dietary Restrictions:***

Vegetarian      Strict Vegetarian      No Shellfish      No Nuts      No Dairy

***Travel Information for getting to The Scripps Research Institute:***

**Directions to The Scripps Research Institute**

From San Diego Airport (about 16.1 miles about 25 min unless in rush hour traffic then add 20 min)

- Head West on North Harbor Drive move over to the far left lane
- Turn left on W Laurel Street
- Turn Left at India Street, drive for 2-3 minutes stay on far left lane
- Take the ramp on the left onto I-5 N
- Continue on I-5 for about 20 minutes or so-Take exit 29, Genesee Avenue
- Turn left at Genesee Avenue
- Turn right at John Jay Hopkins Drive
- Turn right at General Atomics Court
- TSRI is the first building on the right
- Please park anywhere to the left of the entrance

**Directions to the Hotel**

Hilton La Jolla Torrey Pines  
10950 North Torrey Pines Road  
La Jolla, CA 92037  
Tel: 858-558-1500

[http://www1.hilton.com/en\\_US/hi/hotel/SANTPHH/index.do](http://www1.hilton.com/en_US/hi/hotel/SANTPHH/index.do)

**Driving Directions**

From San Diego Airport to Hotel (Total Distance 17.5 miles about 27 minutes)

- Head West on North Harbor Drive move over to the far left lane
- Turn left on W Laurel Street
- Turn Left at India Street, drive for 2-3 minutes stay on far left lane
- Take the ramp on the left onto I-5 N
- Continue on I-5 for about 20 minutes or so
- Take exit 29, Genesee Avenue
- Turn left at Genesee Avenue
- Stay to the right at the y-intersection of Genesee and North Torrey Pines Road
- Turn left at Science Park Road onto the Hilton driveway, lobby is on the right

Call Elvia Nunez at 858-784-7078 if you need more information on any of this.