### SCHEDULE AND AGENDA

**Thursday, November 1st, 2007: Day 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30a – 8:15a</td>
<td>Arrival &amp; Breakfast; On-site check-in and Poster set-up</td>
</tr>
</tbody>
</table>

#### Welcome and Introduction

8:15a – 8:30a  
Raymond Stevens, Ph.D.  
**Pl. CMPT**

Jean Chin, Ph.D.  
**Pl. CMPT**

**Hosted by the Joint Center for Innovative Membrane Protein Technologies (JCIMPT) in the Keck Amphitheater and Beckman Galleria at The Scripps Research Institute**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:30a – 9:00a</td>
<td>Professor, Dept of Biochemistry and Molecular Biology, UCSD</td>
</tr>
<tr>
<td></td>
<td>&quot;Lowering Barriers to Membrane Protein Expression and Crystallization&quot;</td>
</tr>
</tbody>
</table>
| 9:00a – 9:20a | John Hunt, Ph.D.  
Professor, Dept of Biological Sciences, Columbia University          |
|           | "Identifying of Physiological Signatures Controlling Integral Membrane Protein Conformation in E. coli" |
| 9:20a – 9:50a | Seryn Cho, Ph.D.  
Professor, Dept of Structural Biology, The Salk Institute              |
|           | "Mild and Biochemical BIM"                                                |
| 9:50a – 10:30a | Geoffrey Chang, Ph.D.  
Professor, Dept of Biochemistry and Molecular Biology, University of Chicago |
|           | "Total Chemical Synthesis of Proteins for Biological Research"          |
| 10:50a – 11:20a | Patrick Loi, Ph.D.  
Professor, Dept of Molecular Biology and Biophysics, Imperial College of London |
|           | "Structure and Crystallization of Membrane Proteins"                    |
| 11:20a – 11:50a | David Julius, Ph.D.  
Assistant Vice Chair of Cellular & Molecular Pharmacology, UCSF         |
|           | "Membrane Protein Expression of Membrane Proteins"                     |
| 11:50a – 1:10p | Lunch & BREAK & POSTER SESSION                                           |

#### Crystalization Studies Session

| Time     | Session Chair: Peter Kuhn, Ph.D.  
Associate Professor, Dept of Cell Biology, TSI |
|----------|--------------------------------------------------------------------------|
| 3:10p – 3:40p | Martin Caffrey, Ph.D.  
Associate Professor, Dept of Chemistry, The Ohio State University       |
|           | "Membrane Protein Crystallization in Lipidic Membranes"                  |
| 3:40p – 4:10p | Rustom Iyengar, Ph.D.  
Associate Professor, Dept of Chemistry and Institute for Biophysical Dynamics, University of Chicago |
|           | "Crystallography of Membrane Proteins in Bicelles and Nanolipid Discs"  |
| 4:10p – 4:30p | Paul Kets, Ph.D.  
Assistant Professor, Dept of Chemical Biology and Biomedical Engineering, University of Bonn at Utrecht-Düsseldorf |
|           | "Membrane Protein Crystallization"                                       |
| 4:30p – 4:50p | Scott A. Plan, Ph.D.  
Membrane Protein Expression Center, UCSD                               |
|           | "The crystallization Scheme of the Human β2 Adrenergic Receptor"        |

**Day 1 Wrap Up and Summary**

6:00p-6:15p  
Robert Stroud, Ph.D.  
**Pl. MREC**

6:15p – 9:00p  
**RECEPTION & DINNER**

**Friday, November 2nd, 2007: Day 2**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00a – 8:30a</td>
<td>Orientation</td>
</tr>
</tbody>
</table>

#### Invited Speakers Session

| Time     | Session Chair: Qiong Zhang, Ph.D.  
Professor, Dept of Molecular Biology, TSI |
|----------|--------------------------------------------------------------------------|
| 8:30a – 9:00a | So Insta, Ph.D.  
Senior Research Scientist, Laboratory of Structural Neuroscience, University of California Los Angeles |
|           | "Production and Crystallography of Eukaryotic Membrane Proteins"       |
| 9:00a – 9:30a | Doug Rees, Ph.D.  
Professor, Dept of Chemistry, Imperial College of London                 |
|           | "Structural Basis of Membrane Protein Stability and Dynamics"            |
| 9:30a – 10:00a | Larry Meniske, Ph.D.  
Specialist, Membrane Protein Expression Center, UCSD                      |
|           | "Using a Twin Detector Array on an X-ray Crystallography Detector Tool for Optimizing Detergent Concentration for Membrane Protein Crystallization" |

#### Biophysical Characterization Session

| Time     | Session Chair: Mark Yeager, Ph.D.  
Professor, Dept of Cell Biology and Molecular Biology, TSI |
|----------|--------------------------------------------------------------------------|
| 10:00a – 10:30a | Patrick Loi, Ph.D.  
Professor, Dept of Molecular Biology and Biophysics, Imperial College of London |
|           | "Membrane Protein Structures in Phospholipid Bilayers by Solid State NMR" |
| 10:30a – 11:00a | Howard A. Scher, Ph.D.  
Professor, Dept of Chemistry, The University of Chicago                  |
|           | "Membrane Protein Structures in Phospholipid Bilayers by Solid State NMR" |

#### Functional Studies Session

| Time     | Session Chair: M.G. Finn, Ph.D.  
Associate Professor, Dept of Chemistry, TSI |
|----------|--------------------------------------------------------------------------|
| 1:50p – 2:20p | Geoffrey Chang, Ph.D.  
Professor, Dept of Biochemistry and Molecular Biology, Imperial College of London |
|           | "Expression Studies Session"                                             |
| 2:30p – 3:00p | Gerhard Wagner, Ph.D.  
Professor, Dept of Apoptosis and Cell Death Research, The Burnham Institute |
|           | "NMR Studies of Outer Membrane Proteins in Lipid Bilayers"               |

#### Break & Poster Session

2:00p – 2:30p  
**BREAK & POSTER SESSION**

3:00p – 3:30p  
**BREAK & POSTER SESSION**

#### Round Table Discussion and Meeting Wrap-Up

3:20p – 4:30p  
Raymond Stevens, Ph.D.  
**Pl. CMPT**

Robert Stroud, Ph.D.  
**Pl. MREC**

Jean Chin, Ph.D.  
**Pl. CMPT**

Dan Schneider, Ph.D.  
**Pl. CMPT**

**PI, MPEC**

This meeting was supported in part by NIH R13GM082172.