# Third Bioinformatics & Systems Biology Expo

**Monday, February 28th 2011**  
Powell-Focht Bioengineering Hall, Fung Auditorium  
Reception-CSE 1202

**Website:** [http://bluegene.ucsd.edu/bexpo03/Introduction.html](http://bluegene.ucsd.edu/bexpo03/Introduction.html)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>08:00-09:00</td>
<td>Breakfast &amp; Poster set up</td>
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<tr>
<td>09:00-09:20</td>
<td>Opening remarks by Directors Pavel Pevzner and Alex Hoffmann</td>
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<tr>
<td>09:20-10:40</td>
<td>Session I: Student/Faculty Talks</td>
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| 09:20-10:00 | “The Changing Face of Scholarly Communication and the Opportunities it Affords the Bioinformatics/Systems Biology Student”  
Dr. Philip Bourne, Professor of Pharmacology, Associate Director of Protein Data Bank, Editor in Chief of PLoS Computational Biology |
| 10:00-10:20 | “A Hidden Markov Model for Specificity in Gene Expression”  
Kate Hoff |
| 10:20-10:40 | “Complex Network of Alternative Splicing by hnRNP Proteins Elucidated by Genome-wide Splicing Arrays and CLIP-seq”  
Stephanie Huelga |
| 10:40-11:00 | Coffee break                                                                     |
| 11:00-12:20 | Session II: Student/Faculty Talks                                                  |
| 11:00-11:20 | “Quantitative Analysis of the Epigenetic Regulation of Transcription in a Mammalian Cell”  
Nisha Rajagopal |
| 11:20-11:40 | “Allele-specific Regulation Across Differentiation”  
Matthew Schultz |
| 11:40-12:20 | “Enhancing Reverse Vaccinology with Machine Learning”  
Dr. Christopher Woelk, Assistant Professor of Medicine, Division of Infectious Diseases, Director of Genomics Core-Center for AIDS Research |
| 12:20-2:20 | Lunch and Poster Session (outside Fung Auditorium)                                 |
| 2:20-3:40 | Session III: Student/Faculty Talks                                                 |
| 2:20-3:00 | “Decoding the Dynamic Proteome: Discover, Identification, and Localization of Post-Translational Modifications”  
Dr. Nuno Bandeira, Assistant Professor of Pharmacology and Computer Science, Executive Director of NIH/NCCR Center for Computational Mass Spectrometry |
| 3:00-3:20 | “Drug Off-Target Effects Predicted Using Structural Analysis in the Context of a Metabolic Network Model”  
Roger Chang |
| 3:20-3:40 | “Global Elucidation of Transcriptional Response to Key Physiological Parameters in E. coli K12-MG1655”  
Steve Federowicz |
| 3:40-4:00 | Coffee break                                                                     |
| 4:00-5:20 | Session IV: Student/Faculty Talks                                                 |
| 4:00-4:20 | “Genome-wide Analysis of Cancer Stem Cells”  
HyunChul Jung |
| 4:20-4:40 | “Automated Querying and Identification of Novel Peptides using MALDI Mass Spectrometric Imaging”  
Jocelyn Bruand |
Dr. Terry Gaasterland, Professor of Computational Biology and Genomics, Director of Scripps Genome Center |
| 5:20-5:30 | Closing Remarks by EXPO Chair - Sergei Kosakovky Pond                             |
| 5:30-7:00 | Catered Reception (CSE 1202)                                                       |

*Name Badges are required for food. For more information, please contact Graduate Coordinator, Laura Gracia at (858) 822-4948 or lgracia@ucsd.edu*