WEST COAST BACTERIAL PHYSIOLOGISTS

ASILOMAR CONFERENCE

1999

Social hours will be in

KILN

Friday and Saturday Evenings
4:00 to 6:00 and 10:30 to 12:30

Papers will be presented in

Fred Farr Forum
(Formerly the Firelight Forum)

Meals will be served in the Dining Hall

Dinner - 6:00 Friday and Saturday
Breakfast - 7:30 Saturday and Sunday
Lunch - 12:00 Saturday and Sunday

Wishing You An Enjoyable Conference
Sydney Kustu, Co-Director
Jack Meeks, Co-Director

NOTE: Box lunches can be picked up at the dinning room
The conference gratefully acknowledges the Genentech Corporation for sponsoring the overview John Ingraham Lectures in Microbial Physiology presented annually at the meetings of the West Coast Bacterial Physiologists.

Session I: FRIDAY EVENING

Convenor: Nancy McFarland, Genentech Corporation

7:30  Linda McCarter, University of Iowa
      “The multiple personalities of Vibrio parahaemolyticus”

8:20  Meg Zupancic, Huong Tran, and Antje Hofmeister, University of California, Berkeley
      “Racing the clock: Asymmetric gene distribution is essential for the rapid establishment of cell fate”

8:35  Kathleen Ryan and Lucy Shapiro, Stanford University
      “Cell-cycle control of CtrA proteolysis in Caulobacter crescentus”

8:50  COFFEE BREAK (20 min)

9:10  Jennifer Meador-Parton and David L. Popham, Virginia Tech, Blacksburg
      “Structural analysis of Bacillus subtilis spore peptidoglycan during sporulation”

9:25  Hideo Mori and Antje Hofmeister, University of California, Berkeley
      “Searching for mutants that bypass the need for spoIIR in σE activation”

9:40  Kyungyun Cho and David R. Zusman, University of California, Berkeley
      “Sporulation timing in Myxococcus xanthus is controlled by the espAB locus”

9:55  David White and Patricia Hartzell, University of Idaho, Moscow
      “The aglu gene of Myxococcus xanthus is involved in motility and development”

10:10 John Kirby and David Zusman, University of California, Berkeley
      “Identification of new chemoreceptors in Myxococcus xanthus”

10:25 Hope A. Johnson and Alfred M. Spormann, Stanford University
      “In vitro studies on ethylbenzene dehydrogenase, the first enzyme of anaerobic ethylbenzene mineralization”
Session II: SATURDAY MORNING

Convenor: Ned Ruby, Biomedical Research Center, Honolulu

8:30  Paul Baumann, University of California, Davis
      "Biology of the endosymbiont associations of aphids and psyllids"

9:20  Beejay A. Feliciano, Pacific Biomedical Research Center, Honolulu
      "The identification and characterization of a Vibrio fischeri hemagglutination factor"

9:35  Melicent C. Peck and Sharon Long, Stanford University
      "Isolation and characterization of two constitutively-active NodD1 mutant proteins in
      Sinorhizobium meliloti"

9:50  COFFEE BREAK (20 MIN)

10:10 Dalai Yan, University of California, Berkeley
      "Bacterial receiver domains: an analogue of aspartyl phosphate"

10:45 David L. Tierney and V. Scott, Arizona State University, Tempe
      "Thin layer chromatographic analysis of phosphorylation sites of the capsule sensor
      protein, RscC"

11:00 Sharla K. Ames and Linda J. Kenney, Oregon Health Sciences University, Portland
      "Carboxyl-terminal DNA binding stimulates amino-terminal phosphorylation of the outer
      membrane protein regulator OmpR"

11:15 Weihang Chai and Valley Stewart, University of California, Davis
      "Transcription antitermination control of nitrate assimilation gene expression in
      Klebsiella oxytoca"

11:30 D. P. Zimmer, W. C. van Heeswijk, V. F. Wendisch, B. Peter, A. Khodursky, N. Putnam,
      D. Rokhsar, and S. Kustu, University of California, Berkeley
      "Escherichia coli physiological genomics: Apparent cross-regulation of gene expression
      and tools for analysis"

11:45 Eugenia Panomitros and Barry Bochnert, Biolog, Inc., Hayward
      Phenotype MicroArrays for species identification and functional genomics"
Session III: SATURDAY EVENING

Convenor: Leo Parks, North Carolina State University

7:30  David Low, University of California, Santa Barbara
      “Analysis of the methylation-dependent Pap pili switch: How does it turn on?”

8:20  Denise M. Wolf and Adam P. Arkin, University of California, Berkeley
      “Modeling and analysis of E. coli piliation switch dynamics”

8:35  S. Pandza, M. Baetens, C. H. Park, T. Au, M. Keyhan, and A. Matin, Stanford University
      “The G-protein FlhF has a role in polar flagellar placement and general stress response
      induction in Pseudomonas putida”

8:50  COFFEE BREAK  (20 min)

9:10  Ken Keiler and Lucy Shapiro, Stanford University
      “Mechanisms of protein localization in bacteria: A comparative approach”

9:25  David Keating and Sharon Long, Stanford University
      “Characterization of a novel Rhizobium meliloti sulfotransferase involved in cell surface
      sulfation”

9:40  Sarkis Mazmanian and D. Schneewind, University of California, Los Angeles
      “S. aureus sortase, a transpeptidase that anchors surface proteins to the cell wall”

9:55  Hung Ton-That and D. Schneewind, University of California, Los Angeles
      “Sortase catalyzes surface protein anchoring via transpeptidation reaction at the LPXTG
      motif”

10:10 Kyu Hong Cho, Joseph A. Shipman and Abigail A. Salyers, University of Illinois,
      Urbana
      “Minimal starch utilization system of Bacteroides thetaiotaomicron: Only three outer
      membrane proteins out of seven structural proteins are essential to the starch utilization”

10:25 Cres Fraley and Arthur Kornberg, Stanford University, School of Medicine
      “Inorganic polyphosphate mutants of bacterial pathogens are defective in virulence”
Session IV: SUNDAY MORNING

Convenor: Antje Hofmeister, University of California, Berkeley

8:30 Patrick Dennis, University of British Columbia
“SnoRNAs in Archaea”

9:20 Michael S. Bartlett, Michael Thomm, and E. Peter Geiduschek, University of California, San Diego
“Topography of a transcription initiation complex from the hyperthermophilic archaeon Pyrococcus furiosus”

9:35 David W. Reed, Kraig White, Vishwaieeth Pagala, Jack Millstein, and Patricia L. Hartzell, University of Idaho, Moscow
“Electron transfer proteins from Archaeoglobus fulgidus”

9:50 COFFEE BREAK (20 min)

10:10 Eric Johnson, Imke Schroeder, Jessica Chiu, and Doug Rees, University of California, Los Angeles
“Crystal structure of a novel ferric reducates from the hyperthermophilic archaeon Archaeoglobus fulgidus”

10:25 Samantha Williams and Richard Shand, Northern Arizona University, Flagstaff
“The diversity of protein antibiotics (halocins) from the Haloarchaea”

10:40 K. Stedman, H. P.Arnold, I. Holz, D. Prangishvili, and W. Zillig, Max Planck Institute, Germany
“Novel archaean viruses: Collection, characterization and utilization”

10:55 Lenore Landis, Jimin Xu, and Reid C. Johnson, University of California, Los Angeles
“The cAMP receptor protein CRP can function as an osmoregulator of transcription in Escherichia coli”

11:10 Fernando Govantes and Robert P. Gunsalus, University of California, Los Angeles
“Oxygen regulation of the Escherichia coli cydAB operon: Roles of the Fnr-1 and Fnr-2 binding sites”

11:25 Mary F. Forrest, F. P. Dastoor, and J. T. Beatty, Okanagan University College, British Columbia
“Localization of the promoter for the suc operon of Rhodobacter capsulatus”

11:40 James L. Botsford, New Mexico State University
“End of science with the assay for toxic chemicals”

Future Meeting Dates (tentative): Dec. 15, 16 and 17, 2000; Dec. 14, 15 and 16, 2001