

## Molecular Genetics of Bacteria & Phages

### Session 1 CELL BIOLOGY, DIVISION AND DEVELOPMENT

WEDNESDAY 8/20/2008, 7:30 PM

T. Bernhardt

Sternberg Award talk: R.B. Weart

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
1	Bernhardt	Lysostaphin-like proteins are required for <i>E. coli</i> daughter cell separation	20
2	Burkholder	A gene that contributes to the coordination of cell division with DNA replication in <i>B. subtilis</i>	12
3	Sullivan	ParB (Spo0J) organizes the origin region of the chromosome by recruiting a global chromosome organization complex	12
4	Burton	DNA transport across membrane by the <i>B. subtilis</i> ATPase SpoIIIE	12
5	Ramamurthi	On the initiation of spore coat assembly in <i>B. subtilis</i>	12
6	Slavcev	ParB promotes the pairing of P1 <i>ParS</i> sites	12
7	Niki	Novel cell shape determinant in <i>E. coli</i>	12
8	Pang	Probing the pinhole—Assembly and structure of the hole formed by the phage 21 holin	12
9	Russell	tmRNA localization in bacteria	12

### Session 2 ENVIRONMENTAL STRESS, TOXINS AND ANTITOXINS

THURSDAY 8/21/2008, 9:00 AM

S. Finkel

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
10	Finkel	Mechanisms of long-term survival and evolution—GASP and the generation of genetic diversity	20
11	Laubacher	Identification of RcsB-regulated genes and characterization of their role in resistance to $\beta$ -lactam antibiotics	12
12	Gerken	A novel protein, MzrA, genetically links the CpxAR and the EnvZ/OmpR two-component signal transduction system in <i>E. coli</i>	12
13	Woychik	Bacterial addiction module toxin doc inhibits translation elongation through its association with the 30S ribosomal subunit and cleavage of 16S rRNA	12
14	Ramage	The toxin-antitoxin systems of <i>M. tuberculosis</i>	12
15	Engelberg-Kulka	Communication factor EDF and <i>mazEF</i> are determinants in the mode of action of some antibiotics in <i>E. coli</i>	12
16	Hayes	Unexpected diversity in mutations conferring resistance to macrolide antibiotics	12
17	Moore	How a ribosome confers macrolide resistance	12
18	Soule	Temporal gene expression patterns in genes associated with the biosynthesis of the sunscreen scytonemin in <i>Nostoc</i> ATCC 29133 after induction by UV-A exposure	12

