

BACTERIAL EXPRESSIONS
Dasheri Auditorium
22nd – 25th October 2013, NCBS
SCIENTIFIC PROGRAMME

22nd October 2013

| Time | Title/ Event | Speaker | Abstract Number |
|---------------|--|------------------------|------------------------|
| 12:00 – 12:30 | Registration | | |
| 12:30 – 13:45 | Lunch, Registration continued | | |
| 13:45 – 14:00 | Welcome | | |
| 14.00 – 15:00 | Keynote Lecture: Bacterial promoters: activity, integration and location | Steve Busby | 1 |
| 15:00 – 15:30 | Keynote discussion with tea | | |
| 15:30 – 16:00 | HNS can facilitate specific DNA binding by RNA Polymerase in AT rich gene regulatory regions | Shivani Singh | 2 |
| 16:00 – 16:30 | Testing the loop domain model in bacteria | Ian Dodd | 3 |
| 16:30 – 17:00 | Chromosomes as thermodynamic machines converting energy into genetic information: a paradigm shift | Georgi Muskhelishvilli | 4 |
| 17:00 – 19:00 | Tea and Posters | | |
| 19:00 – | Dinner | | |

23rd October 2013

| Time | Title/ Event | Speaker | Abstract Number |
|---------------|--|------------------------|-----------------|
| 09:30 – 10:00 | The effect of Q expression on lysogeny in bacteriophage λ | Szabolcs Semsey | 5 |
| 10:00 – 10:30 | Bet-Hedging and Lysis-Lysogeny choices for phages | Kim Sneppen | 6 |
| 10:30 – 11:30 | Tea and discussion | | |
| 11:30 – 12:00 | Bacterial Expression of Lipoproteins New Protein Engineering Tool | Krishnan Sankaran | 7 |
| 12:00 – 12:30 | Pili: The Double Edged Sword | Anirban Banerjee | 8 |
| 12:30 – 14:00 | Lunch and Discussion | | |
| 14:00 - 14:30 | Modulation of Rho dependent transcription termination in <i>Escherichia coli</i> by the HNS family of nucleoid associated proteins | J. Gowrishankar | 9 |
| 14:30 – 15:00 | Genomic analysis of xenogene silencing in <i>Escherichia coli</i> | Aswin S. N. Seshasayee | 10 |
| 15:00 – 17:30 | Tea, poster and discussion | | |
| 17:30 – 18:00 | EMBO Lecture: An RNA perspective on bad microbes and their hosts | Jörg Vogel | 11 |
| 18:30 – 19:00 | EMBO Lecture discussion with tea | | |
| 19:00 – | Dinner | | |

24th October 2013

| Time | Title/ Event | Speaker | Abstract Number |
|---------------|---|---------------------|-----------------|
| 09:30 – 10:00 | Structural basis of mutagenic DNA synthesis by DNA Polymerase IV from <i>Escherichia coli</i> | Deepak Nair | 12 |
| 10:00 – 10:30 | Large effects of synonymous mutations on gene expression | Deepa Agashe | 13 |
| 10:30 – 11:00 | Catabolism of aromatic beta glucosides by bacteria provides protection from predators | S. Mahadevan | 14 |
| 11:00 – 11:30 | Tea and discussion | | |
| 11:30 – 12:00 | An evolutionary aspect of bacterial gene expression | Joël Gaffé | 15 |
| 12:00 – 12:30 | Cross-species comparison of drug-drug interactions | Ana Rita Brochado | 16 |
| 12:30 - 14:00 | Lunch and discussion | | |
| 14:00 – 14:30 | How do cells count? <i>Salmonella</i> invasion program | Supreet Saini | 17 |
| 14:30 – 15:00 | Benefits of cooperation and communication in bacteria | Sandeep Krishna | 18 |
| 15:00 – 17:30 | Tea, posters and discussion | | |
| 17:30 – 18:30 | Keynote Lecture: Is there a 3D structure in Bacterial Chromosome? | Sankar Adhya | 19 |
| 18:30 – 19:00 | Keynote discussion with tea | | |
| 19:00 – | Dinner | | |

25th October 2013

| Time | Title/ Event | Speaker | Abstract Number |
|---------------|--|-----------------------|-----------------|
| 09:30 – 10:00 | Growth phase and genome position dependence of the role of H-NS in transcription regulation and nucleoid organisation. | Bianca Sclavi | 20 |
| 10:00 – 10:30 | Entangled: negative regulation of topoisomerase IV activity during cell cycle in <i>Caulobacter crescentus</i> | Sunish Radhakrishnan | 21 |
| 10:30 – 11:00 | Sigma competition for core <i>E.coli</i> RNA polymerase studied at a monolayer | Dipankar Chatterji | 22 |
| 11:00 – 11:30 | Tea and Discussion | | |
| 11:30 – 12:30 | Keynote Lecture: DNA topology, horizontal gene transfer and the evolution of the acid stress response and the Omp/Envz regulon of Gram-negative bacteria. | Charles Dorman | 23 |
| 12:30 – 14:00 | Keynote discussion, followed by lunch | | |