

BACTERIAL EXPRESSIONS II
Dasher Auditorium
1st-5th December 2015, NCBS, TIFR
Scientific Programme

1st December, 2015

Time	Title/Event	Speaker	Page Number
12:30-14:00	<i>Lunch</i>		
14:00-15:00	Welcome and Keynote Bacterial Decision Making.	Charles Dorman	14
15:00-15:30	<i>Tea/Coffee/ Posters/Discussion</i>		
15:30-16:00	Cell division as global regulator: Understanding the origin of balanced growth in bacterial cultures	Sanjay Jain	15
16:00-16:30	Studies to understand the role of basal (p)ppGpp in the physiology of E.coli.	R. Harinarayanan	16
16:30-17:00	<i>Tea/Coffee/ Posters/Discussion</i>		
17:00-17:30	How does E.coli combat oxidative stress generated by long chain fatty acid (LCFA) metabolism?	Rachna Chaba	17
17:30-18:00	A polar regulatory hub controls the asymmetric development in <i>Caulobacter crescentus</i>	Sunish Radhakrishnan	18
18:00-18:20	<i>Tea/Coffee/ Posters/Discussion</i>		
18:20-19:40	Cultural Event		
19:40	<i>Dinner</i>		

2nd December, 2015

Time	Title/Event	Speaker	page Number
09:30-09:50	Student talks	Asha M Joseph	44
09:50-10:10		Nalini R	68
10:10-10:30		Savita Chib	81
10:30-11:30	<i>Tea/Coffee/ Posters/Discussion</i>		
11:30-12:00	Meta-genome characterization using high throughput 3C data.	Romain Koszul	19
12:00-12:30	A model for the cross-linking effect in 3C experiment	Vittore F Scolari	20
12:30-13:30	<i>Lunch</i>		
13:30-15:00	<i>Poster session</i>		
15:00-15:30	The multi scales spatial organization of bacterial genomes.	Axel Cournac	22
15:30-16:00	Genome position dependence of global transcription regulator activity.	Bianca Sclavi	23
16:00-17:00	<i>Tea/Coffee/ Posters/Discussion</i>		
17:00-17:30	In vivo regulation of bacterial double strand DNA break resection.	Anjana Badrinarayanan	24
17:30-18:00	A theoretical model of replication stochasticity in the bacterial cell cycle.	Chaitanya A. Athale	25
18:00-19:30	<i>Tea/Coffee/ Posters/Discussion</i>		
19:30	<i>Special dinner</i>		

3rd December. 2015.

Time	Title/Event	Speaker	Page Number
9:30-10:00	Modulation of swimming speeds in chemotaxis of Escherichia coli	KV Venkatesh	29
10:00-10:30	Novel amino acid sensing and post-transcriptional response mechanisms.	Sunil Laxman	
10:30-11:30	<i>Tea/Coffee/ Posters/Discussion</i>		
11:30-12:00	Stochastic fluctuations in enzyme expression and its coupling to metabolism and growth	Daniel Johannes Kiviet	
12:00-12:30	Formation of gene expression patterns in bacterial colonies	Szabolcs Semsey	30
12:30-13:30	<i>Lunch</i>		
13:30-15:00	<i>Post lunch Posters/Discussion</i>		
15:00-15:30	Host-pathogen interactions and gene expressions.	Varadharajan Sundaramoorthy	26
15:30-16:00	Licence to Methylate: Mechanism of low pH induced activation of a Type III DNA methyltransferase from H. pylori	Deepak T Nair	26
16:00-17:00	<i>Tea/Coffee/ Posters/Discussion</i>		
17:00-17:30	Intrinsic coupling between pathogen virulence and antibiotic efficacy	Mathew Scott	27
17:30-18:00	Intrinsic antibiotic resistance and control of marsox-rob regulon in E.coli and Salmonella	Supreet Saini	28
18:00-19:00	<i>Tea/Coffee/Posters/Discussion</i>		
19:00	<i>Dinner</i>		

4th December, 2015

Time	Title/Event	Speaker	page Number
09:30-09:50	100 years of phage discovery	Aswin Sai Narain S	
09:50-11:00		Sankar Adhya	
11:00-12:00	<i>Tea/Coffee/Posters/Discussion</i>		
12:00-12:20	100 years of phage discovery:	Madhumathi	63
12:20-12:40	Student talks	Revathy K	77
12:40-13:00		Vaibhava Sinha	92
12:30-13:30	<i>Lunch</i>		
13:30-15:00	<i>Post lunch Posters/Discussion</i>		
15:00-15:30	Phenotypic heterogeneity in bacterial quorum sensing: cooperation and individuality in social structure of bacteria	Subhadeep Chatterjee	31
15:30-16:00	Evolution of aromatic beta-glucoside utilization by successive mutational steps in Escherichia coli	Subramony Mahadevan	32
16:00-17:00	<i>Tea/Coffee/ Posters/Discussion</i>		
17:00-17:30	A bacterial small RNA acts as a signaling hub.	Arati Ramesh	33
17:30-18:00		Ramaswamy S	
18:00-19:00	<i>Tea/Coffee/ Posters/Discussion</i>		
19:00	<i>Dinner</i>		

5th December 2015

Time	Title/Event	Speaker	Page Number
09:30-10:00	Fluctuation and Response of Gene Expressions through Adaptation and Evolution	Kunihiko Kaneko	35
10:00-10:30	Determinants of codon use in bacterial genomes	Deepa Agashe	36
10:30-11:30	<i>Tea/Coffee/ Posters/Discussion</i>		
11:30-12:00	Models of Bacterial Genome Evolution and Ecosystem Dynamics: Kill-the-Winner, Kill-the-Loser, and Kill-the-King.	Sergei Maslov	37
12:00-12:30	Determinants of metabolic sector and pathway efficiency in E.coli.	Lei-Han Tang	37
12:30-13:00	Poster Prize Distribution		
13:00	<i>Lunch</i>		

**White boards and markers will be available for open discussions during conference hours*

** All posters should be up throughout the conference and open for discussion during all breaks.*