

2nd International Conference on Contemporary Antimicrobial Research 2018

(ICCAR 2018)



To be held at IIT Kharagpur

December 15-17, 2018

Program Schedule

[Lecture codes: *PL*- Plenary Lecture; *IL*-Invited Lecture; *OP*-Oral presentation & *SL*- Sponsor's lecture]

Venue

GARGI AUDITORIUM, VIKRAMSHILA COMPLEX

Day I: December 15, 2018

1:00 - 3:00 pm	<i>Registration/ Kit distribution & poster fixation (Session I/II/III)</i>	
3:00 - 4:00 pm	<i>Inauguration</i>	
4:00 - 4:45 pm	<i>Refreshment and interaction</i>	
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<i>Session I:</i>	<i>Antimicrobial Resistance Mechanisms</i>	
	<i>Chairperson: Dr. Mark Toleman, (Cardiff Univ., UK)</i>	
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4:45 - 5:20 pm	<i>Understanding resistance in Gram-negatives</i> <i>Dr. Mark Toleman, Cardiff Univ., UK</i>	<i>[PL-1]</i>
5:25 - 5:45 pm	<i>Distribution of Carbapenemases : Changing trends in India</i> <i>Prof. Malay Ranjan Sen, BHU</i>	<i>[IL-1]</i>
5:45 - 6:05 pm	<i>Structural insight of NDM-1 type Carbapenemase: Insight of functional state of protein to understand carbapenem resistance mechanism</i> <i>Prof. Asad U Khan, AMU. Aligarh</i>	<i>[IL-2]</i>
6:05 - 6:25 pm	<i>The story of colistin resistance is unfolding: another storm in the cradle??</i> <i>Dr. Sulagna Basu, NICED, Kolkata</i>	<i>[IL-3]</i>
6:25 - 6:45 pm	<i>SI91A mutation restrict the metallo-beta-lactamase activity of NDM-7</i> <i>Prof. Anindya S. Ghosh, IIT Kharagpur</i>	<i>[IL-4]</i>
6:45 - 7:05 pm	<i>Fast Super-Resolution Imaging of Live Samples Olympus</i> <i>Dr. Manoj Manna DSS- Image-tech Pvt. Ltd.(Gold Sponsor Lecture)</i>	<i>[SL-1]</i>

7:00 - 8:00 pm Poster Session (I, II and III)
8:00 - 10:00 pm Dinner & Poster Discussion Session (I, II and III)

Day 2: December 16, 2018

8:00 - 9:00 am Breakfast

Session II: Evolution and Propagation of Antimicrobial Resistance
Chairperson: Prof. Ranadhir Chakraborty, (North Bengal Univ.)

- 9:00 - 9:35 am *Molecular associations among the genes involved and between the genes and the phenotypes under selection determines the course of evolution of antibiotic resistance* [PL-2]
Prof. Ranadhir Chakraborty, N. Bengal Univ.
- 9:40 - 10:00 am *Non-antibiotic Therapeutic Regimens for Helicobacter pylori in an Era of Increasing Antibiotic Resistance* [IL-5]
Dr. Ashis Mukhopadhyay, NICED, Kolkata
- 10:00 - 10:20 am *Glimpse of Antimicrobial Resistance in Sikkim hills and around with regard to Extended Spectrum β actamase (ESBL) producing bacteria* [IL-6]
Dr. Hare Krishna Tiwari, Sikkim Univ. Gangtok
- 10:20 - 10:40 am *Enterococcus spp. in traditional products– A paradox in probiotic lactic acid bacterium research* [IL-7]
Prof. S. R. Joshi, NEHU, Shillong
- 10:40 - 11:00 am Refreshment & Poster fixation (Session IV/V)
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Session III: New Target Identification
Chairperson: Dr. J. Gowrishankar, (CDFD, Hyderabad)

- 11:00 - 11:35 am *Rho inhibition leads to death of E. coli from antisense transcript-generated R-loops* [PL-3]
Dr. J. Gowrishankar, CDFD, Hyderabad
- 11:35 - 12:10 noon *Two component systems of Mycobacterium tuberculosis as potential drug targets* [PL-4]
Prof. M. Kundu, Bose Institute, Kolkata
- 12:20 - 12:40 pm *Cleavage of bacterial peptidoglycan as a novel target for development of antimicrobials* [IL-8]
Dr. Manjula Reddy, CCMB, Hyderabad
- 12:40 - 1:00 pm *Targeting Streptococcus pneumoniae FtsZ is an attractive strategy for discovering antipneumonia drugs* [IL-9]
Prof. Dulal Panda, IIT Bombay
- 1:00 - 2:00 pm Lunch Break & Poster Session (IV & V)
- 2:00 - 3:00 pm Poster Session (IV & V)
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Session IV:

Prospective Therapeutics

Chairperson: Prof. Stephen Rimmer (Univ. Of Bradford, UK)

3:00 - 3:35 pm	<i>Detection and Treatment of Fungal and Bacterial Disease using Smart Polymers</i> Prof. Stephen Rimmer (Univ. Of Bradford, UK)	[PL-5]
3:40 - 4:00 pm	<i>Natural Products and Derivatives as RND Efflux Pump Inhibitors : In silico and In vitro appraisal</i> Prof. M. Dutta Chowdhury, Assam Univ, Silchar	[IL-10]
4:00 - 4:20 pm	<i>Drug Resistance to parasitic diseases</i> Prof. Sudip Kumar Ghosh, IIT Kharagpur	[IL-11]
4:20 - 4:35 pm	<i>Mesoporous nanomatrices loaded with therapeutic ions for treating biofilm infections in chronic bone and skin wounds</i> Joey Shepherd, Univ. of Sheffield, UK	[OP-1]
4:35 - 4: 50 pm	<i>Discovery of natural products against Pseudomonas aeruginosa AHL-dependent quorum sensing</i> Chien Yi-Chang, University of Bradford, UK	[OP-2]
4:50 - 5:20 pm	Refreshment & Poster Session (IV & V)	

Session V:

Structure Based Drug Design

Chairperson: Prof. Dipankar Chatterji, (IISC, Bangalore)

5:20 - 5:55 pm	<i>Stringent Response in Mycobacteria: A viable Drug Target?</i> Prof. Dipankar Chatterji, IISC, Bangalore	[PL-6]
6:00 - 6:20 pm	<i>Bioinformatics approaches for understanding the molecular basis of antibiotic resistance in pathogenic bacteria</i> Prof. Anand Anbarasu, VIT, Vellore	[IL-12]
6:20 - 6:40 pm	<i>Elucidation of the mechanism of disulfide exchange between staphylococcal thioredoxin2 and thioredoxin reductase2: a structural insight</i> Prof. Amit Kumar Das, IIT Kharagpur	[IL-13]
6:40 - 6:55 pm	<i>Harnessing nano-patterning and incorporation of antimicrobials to manufacture orthopaedic trauma implants that resist microbial colonisation</i> Dr Maria Katsikogianni, Univ. of Bradford, UK	[OP-3]
6:55 - 7:10 pm	<i>Using genomics to understand the modes of virulence and detect putative biological targets in the enteric pathogen, Entamoeba histolytica</i> Ms Amber Leckenby, Univ. of Bradford, UK	[OP-4]
7:20 - 8:20 pm	Cultural Program [Venue: Kalidas Auditorium]	
8:30 - 10:00 pm	Dinner & Poster Discussion Session (IV & V)	

Day 3: December 17, 2018

Session VI: *Clinical Aspects of Handling Antimicrobial Resistance*

Chairperson: Dr. Prashant Garg (LVPEI, Hyderabad)

8:00 - 9:00 am	<i>Breakfast & Poster fixation (Session VI & VII)</i>	
9:00 - 9:35 am	<i>Clinical aspect of antimicrobial resistance</i> <i>Dr. Prashant Garg, (LVPEI, Hyderabad)</i>	[PL-7]
9:40 - 10:00 am	<i>Tackling the menace of escalating antimicrobial resistance in a hospital set up</i> <i>Prof. Raja Ray, IPGMER, Kolkata</i>	[IL-14]
10:00 - 10:20 am	<i>Host immune response profile and impact of blocking PD-1 pathway on protective immune response in tuberculosis patients</i> <i>Prof. Dipendra Mitra, AIIMS, New Delhi</i>	[IL-15]
10:20 - 10:40 am	<i>Antimicrobial Resistance and Intensive Care units: Real challenges for Infection control</i> <i>Dr. Tuhina Banerjee, BHU</i>	[IL-16]
10: 40- 11:00 am	<i>Refreshment & Poster Session (VI & VII)</i>	

Session VII: *Novel Detection Methods & Antimicrobial Resistance*

Chairperson: Prof. Amit Basak (IIT Kharagpur)

11:00 - 11:30 am	<i>Photo-affinity probes for detection of penicillin-binding proteins and metallo beta-lactamases</i> <i>Prof. Amit Basak, IIT Kharagpur</i>	[PL-8]
11:30 - 11:50 am	<i>Screening of anti-infectives promoting host-health</i> <i>Dr. Maneesh Paul, Orchid Pharma, Chennai</i>	[IL-17]
11:50 - 12:10 pm	<i>An overview of Multidrug-resistant tuberculosis (MDR TB) and Alternative Strategy to Battle against MDR TB</i> <i>Dr. Sharmistha Deb, Dippon, Bangalore</i>	[IL-18]
12:10 - 12:25 pm	<i>Inhibitor of sarco/endoplasmic reticulum calcium-ATPase impairs paramyxovirus replication</i> <i>Dr. Sanjay Barua, ICAR</i>	[OP-5]
12:25 - 12:40 pm	<i>Determining Bacterial Sensitivity of diagnostic polymer composite swabs</i> <i>Dr. Thomas Swift, Univ. of Bradford, UK</i>	[OP-6]
12:40 - 12:55 pm	<i>Antibiofilm and biofilm eradication activity of alkylimidazolium ionic liquids against Candida albicans</i> <i>G Kiran Kumar Reddy, BARC</i>	[OP-7]
1:00 - 2:00 pm	<i>Lunch Break</i>	

2:00-3:00 pm

Poster Session (VI & VII)

3:00- 4:00 pm

Valedictory Session & Poster Prize Announcement

Poster Displaying Schedule

Session I/ II/ III:

Dec. 15, 2018: 1:00-3:00 pm (Poster fixing/mounting)

Dec. 15, 2018: 7:00-8:00 pm (Poster presentation)

Dec. 15, 2018: 8:00-10:00 pm (Dinner, poster discussion and dismantling)

Session IV/ V:

Dec. 16, 2018: 10:40-11:00 am (Poster fixing/ mounting)

Dec. 16, 2018: 2:00-3:00 pm (poster presentation)

Dec. 16, 2018: 4:50-5:20 pm (Refreshment and Poster presentation)

Dec. 16, 2018: 8:30-10:00 pm (Dinner, poster discussion and dismantling)

Session VI/ VII:

Dec. 17, 2018: 8:00-9:00 am (Breakfast, Poster fixing/ mounting)

Dec.17, 2018: 10:40-11:00 am (Refreshment and Poster presentation)

Dec. 17, 2018: 2:00-3:00 pm (poster presentation and dismantling)

Session-wise Allotment for the Poster Presentations

- *Session I, II and III (December 15, 2018)*

<i>Sl. No.</i>	<i>Registration number</i>	<i>Name</i>	<i>Session</i>
1	ICCARI0012	Mrs Priyanka Biswas	III
2	ICCARI0035	Dr Deepjyoti Paul	I
3	ICCARI0041	Ms Nilu Pradhan	I
4	ICCARI0043	Mr Ganesh Kumar N	I
5	ICCARI0044	Ms Varsha Rani Gajamer	I
6	ICCARI0064	Mr Bhaskar Jyoti Das	I
7	ICCARI0065	Ms Somorita Baishya	III
8	ICCARI0068	Mr Tilak Saha	II
9	ICCARI0076	Ms Suruchi Lata	I
10	ICCARI0078	Mr Amar Chandra Mahata	III
11	ICCARI0079	Ms Rinki Mishra	II
12	ICCARI0087	Mr Arghya Chakravorty	II
13	ICCARI0089	Mr Ashish Kumar singh	II
14	ICCARI0099	Dr Sathi Mallick	I
15	ICCARI0100	Mr Sandipan Saha	III
16	ICCARI0103	Ms Swetha Thirukannamangai krishnan	I
17	ICCARI0117	Mr Anand Kumar Kumawat	III
18	ICCARI0123	Dr krishna joshi	II
19	ICCARI0124	Mr Mainak Chakraborty	II
20	ICCARI0128	Mr Partha Barman	II
21	ICCARI0138	Ms Pia Dey	I
22	ICCARI0144	Mr Subhajit Karmakar	III
23	ICCARI0149	Mr Bikash Ranjan Samal	III
24	ICCARI0148	Mr Vivek Ranjan	II
25	ICCARI0151	Ms Jyoti Verma	I
26	ICCARI0153	Ms Monalisha Hazarika	I
27	ICCARI0155	Mr Sudipta Das	II
28	ICCARI0164	Mr saradindu saha	III
29	ICCARI0176	Mrs Anwasha Adhikary	I
30	ICCARI0179	Ms Shreya Routh	III
31	ICCARI0180	Ms Sampri Pal	III
32	ICCARI0181	Mr Mohan Sharma	I

- *Session IV and V (December 16, 2018)*

<i>Sl. No.</i>	<i>Registration number</i>	<i>Name</i>	<i>Session</i>
1	<i>ICCARI0005</i>	Ms Kathakali Nath	IV
2	<i>ICCARI0014</i>	Mr Sravan kumar Miryala	V
3	<i>ICCARI0027</i>	Ms Preeti Acharya	V
4	<i>ICCARI0031</i>	Ms Namrata Chakravarty	IV
5	<i>ICCARI0032</i>	Dr Shajrul Amin	IV
6	<i>ICCARI0033</i>	Dr Astha Tripathi	IV
7	<i>ICCARI0036</i>	Ms sheryl lanong	IV
8	<i>ICCARI0042</i>	Dr Sumeet Kumar	IV
9	<i>ICCARI0055</i>	Ms Payal Nandani	IV
10	<i>ICCARI0056</i>	Ms Arushi Sharma	IV
11	<i>ICCARI0071</i>	Mr Amit Kumar Singh	IV
12	<i>ICCARI0086</i>	Ms Shreya Gaurav	IV
13	<i>ICCARI0095</i>	Dr Gowrishankar Shanmugaraj	IV
14	<i>ICCARI0097</i>	Ms Jyoti Kumari	IV
15	<i>ICCARI0101</i>	Ms Durgadevi Ravindran	IV
16	<i>ICCARI0102</i>	Ms Kasthuri Thirupathi	IV
17	<i>ICCARI0110</i>	Ms Bhoomi Patel	IV
18	<i>ICCARI0111</i>	Ms Nisha Trivedi	IV
19	<i>ICCARI0113</i>	Mrs Rehana Parveen	IV
20	<i>ICCARI0114</i>	Ms Alagu Lakshmi Selvaraj	IV
21	<i>ICCARI0118</i>	Dr Debasish Kar	V
22	<i>ICCARI0122</i>	Mr Subhanil Chakraborty	IV
23	<i>ICCARI0125</i>	Mr Subhjit Sen	IV
24	<i>ICCARI0129</i>	Ms Sabina Begum Choudhury	V
25	<i>ICCARI0140</i>	Mr Samya Sen	IV
26	<i>ICCARI0147</i>	Ms Bina Kumari Singh	V
27	<i>ICCARI0157</i>	Dr Geetanjali Basak	IV
28	<i>ICCARI0161</i>	Ms Arpita Bhowmick	IV
29	<i>ICCARI0173</i>	Mr Gourab Bhattacharje	V
30	<i>ICCARI0191</i>	Ms Madhurima Roy	V

• *Session VI and VII (December 17, 2018)*

<i>Sl. No.</i>	<i>Registration number</i>	<i>Name</i>	<i>Session</i>
1	ICCARI0024	Mr Laxmikant Gautam	VI
2	ICCARI0067	Dr Sayak Ganguli	VII
3	ICCARI0082	Dr Hirak Jyoti Raj	VI
4	ICCARI0085	Dr Naveen Kumar	VII
5	ICCARI0091	Ms Payel Das	VII
6	ICCARI0105	Ms Ariktha Srivathsan	VII
7	ICCARI0107	Ms Chandrayee Deshamukhya	VII
8	ICCARI0112	Dr Sudeshna Datta	VII
9	ICCARI0115	Ms Ranjana Kumari	VII
10	ICCARI0116	Mrs Soumita Dutta	VII
11	ICCARI0126	Ms Soumi Ghosh	VII
12	ICCARI0134	Mrs Meesha Singh	VII
13	ICCARI0145	Dr Trinath Chowdhury	VII
14	ICCARI0146	Ms Moushume Das	VII
15	ICCARI0162	Mr Rishav Barman	VI
16	ICCARI0163	Mr Saireet Misra	VI
17	ICCARI0165	Dr Baisakhee Saha	VII
18	ICCARI0167	Ms Kumari Shikha	VII
19	ICCARI0169	Dr Jacob Patten	VII
20	ICCARI0172	Ms Moumita Bhaumik	VII
21	ICCARI0189	Mr RaviRanjan Kumar	VII
22	ICCARI0190	Mr Kalaiyarasan Thiyagarajan	VII
23	ICCARI0092	Dr Subhasree Roy	VII
24	ICCARI0080	Mrs Shravani Mitra	VII
25	ICCARI0206	Mrs Surabhi Lavania	VII

