

App. No. MED/2017/02

No. BT/PR24255/NER/95/716/2017
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY
DEPARTMENT OF BIOTECHNOLOGY
(NER-BPMC)

Block 2, 6-8th Floors
CGO Complex, Lodhi Road,
New Delhi- 110 003
Dated: 28 / 09 / 2018

ORDER

Sanction of the President is hereby accorded, under Rule 18 of the Delegation of Financial Powers Rules, 1978, for the implementation of the project entitled: "**Molecular analysis of emerging carbapenem hydrolysing class D beta lactamases (CHDLs) in Gram negative bacteria and their control using anti plasmid compounds**" for a period of 3 Year 0 Month at a total cost of Rs. **10729000** (Rupees One Crores Seven Lakhs Twenty Nine Thousand Only) on the terms and conditions detailed here under:-

2 The Project :

2.1 Title : "Molecular analysis of emerging carbapenem hydrolysing class D beta lactamases (CHDLs) in Gram negative bacteria and their control using anti plasmid compounds"

2.2 Details of the Investigators:

Project Coordinator

Dr. Amitabha Bhattacharjee
Assistant Professor
Microbiology
Assam (Central) University, Silchar
Department of Microbiology, Silchar, Assam, 788011

Principal Investigators:

Vasudevan

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Assistant Professor
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Assam (Central) University, Silchar
Department of Microbiology,
Silchar, Assam, 788011

Dr. Anindya Sundar Ghosh
Associate Professor
Biotechnology
Indian Institute of Technology
Kharagpur
IIT Kharagpur, Kharagpur, West
Bengal, 721302

Dr. Debadatta Dhar
Associate Professor
Microbiology
Silchar Medical College and Hospital
Silchar Medical College and
Hospital, Silchar, Assam,
788014

2.3 Objectives:

Overall Objectives:

1. Screening and assessment of transmission dynamics of CHDLs [SMCH, and AU Silchar]
2. Transcriptomic analysis and plasmid stability assessment of CHDLs [AU, Silchar]
3. Molecular assessment of the enzymatic natures of OXA-23 and OXA-58 in vivo and in vitro with reference to NDM-7 [IIT KGP]

Institute wise Objectives:

Assam (Central) University, Silchar

1. Molecular screening and transmission dynamics of CHDLs
2. Transcriptomic analysis of CHDLs under concentration gradient carbapenem stress
3. Analysis of plasmid stability and elimination

Indian Institute of Technology Kharagpur

1. Cloning and in vivo expression of the identified OXA-23, OXA-58 and NDM-7 from clinical isolates
2. Molecular characterization of the enzymes in vitro

Silchar Medical College and Hospital

1. To screen phenotypically carbapenemase producing isolates and their antibiogram profiling

2.4 Time Schedule:

The duration of the project is 3 Year 0 Month from the date of this sanction order.

2.5 Project Cost:

The total cost of the project is Rs. **10729000/-** (Rupees: One Crores Seven Lakhs Twenty Nine Thousand Only) as per details given below :

Institute	Year I	Year II	Year III	Total Cost(Rs.)
1. Assam (Central) University, Silchar	2482000	1382000	1321600	5185600
2. Indian Institute of Technology Kharagpur	1040000	1040000	986800	3066800
3. Silchar Medical College and Hospital	877000	780000	819600	2476600
Total (Rs.)	4399000	3202000	3128000	10729000

Institute wise details are:

Budget Head	Year I	Year II	Year III	Total(Rs.)
1. Assam (Central) University, Silchar				
Equipment	1000000.00			1000000.00
Manpower	582000.00	582000.00	621600.00	1785600.00
Overhead	200000.00	100000.00	100000.00	400000.00
Contingency	50000.00	50000.00	50000.00	150000.00
Travel	50000.00	50000.00	50000.00	150000.00
Consumables	600000.00	600000.00	500000.00	1700000.00
Total (Rs.)	2482000.00	1382000.00	1321600.00	5185600.00
2. Indian Institute of Technology Kharagpur				
Manpower	390000.00	390000.00	436800.00	1216800.00
Overhead	50000.00	50000.00	50000.00	150000.00
Consumables	500000.00	500000.00	400000.00	1400000.00
Travel	50000.00	50000.00	50000.00	150000.00
Contingency	50000.00	50000.00	50000.00	150000.00
Total (Rs.)	1040000.00	1040000.00	986800.00	3066800.00

Vandana