

Tour - REPORT

Report on participation of the ICMR International Fellow (ICMR-IF) in Training/Research abroad.

1. Name and designation of the ICMR-IF : Dr.(Mrs) Ashoka Mahapatra
Associate Professor
2. Address : Department of Microbiology,
AIIMS,Bhubaneswar,Odisha,India
3. Frontline area of research in which
Training/research was carried out : Public Health aspect of
Antimicrobial Resistance
4. Name & Address of Professor and host
Institute : Professor Pinaki Panigrahi,
MD,Phd

University of Nebraska Medical
Center, College of Public Health
964385 Nebraska Medical Center
Omaha,NE 68198-4385
5. Duration of fellowship : 15 days (14th – 28th September)
6. Highlights of work conducted :
 - i) **Technique acquired –**
 - Pulsed Field Gel Electrophoresis
 - Denatured Gradient Gel Extension
 - Environmental sampling process (from domestic water, waste water ,soil, animal) for presence of antimicrobial resistance gene.

Ashoka Mahapatra

ii) **Research Results –**

- a) Prepared a Review Article entitled “Quinolone Resistance- Need for new research in Indian Subcontinent.” for submission.
- b) Interacted with the experts

From College of Public Health

- i) **Prof.Peter C.Iwen, Director Nebraska Public Health Laboratory –** Epidemiological aspect of Antimicrobial Resistance , Exposure to the Clinical Microbiology laboratory

From Nebraska Water Center

Prof.Daniel D. Snow – Director Water Science Laboratories & Prof. Durso Lisa -
Environmental sample processing & analysis for presence of antimicrobial resistance genes.
Correlation of the Antimicrobial resistance genes from clinical samples (patients) with that of environment.

iii) **Proposed utilization of the experience in India**

There are very few research work done in Odisha (India) in the field of Antimicrobial Resistance. The technique PFGE & DGGE learned at UNMC is proposed to be utilized in future collaborative studies on antimicrobial resistance gene detection from different sources.

ICMR Sanction NO.

INDO/FRC/452/S-01/2017-18-IHD

Dt. 11th Sep,2017

Ashoka Mahapatra
Signature of ICMR-IF