

REPORT

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

1. Name of designation of ICMR : Dr. Chittaranjan Behera, Associate Professor
2. Address : Department of Forensic Medicine & Toxicology, AIIMS, N.D.
3. Frontline area of research in which
Training/research was carried out : Biomarkers in Suicide
4. Name & address of Professor and host institute : Professor Yogesh Dwivedi,
Department of Psychiatry and Neurobiology,
University of Alabama Birmingham, USA
5. Duration of fellowship : 3 Months (01-09-2017 to 31-12-2017)
6. Highlight of work conducted
 - i) Technique/expertise acquired : Genetics and epigenetics in Suicide Research
 - ii) Research result, including any paper
/ Publication : Research paper is being written and will submitted later
 - iii) Proposed utilization of the
Experience in India

: I learned both theoretical and technical aspects of the roles of neurotransmitter receptors, cytokines, neurotrophins, cellular signaling, neural plasticity, and gene regulation in depression and suicide risk through gene expression, RNA sequencing, microRNAs, and epigenetic approaches. I have also observed various approaches of research in suicide such as human postmortem brain studies, peripheral blood cell studies from patient population, rat brain studies involving manipulation of the stress axis, rodent models of depression and post-traumatic disorder, and gene knock-out mice.

I interacted with many researchers (clinical and basic sciences) at UAB, Birmingham and conference at Las Vegas on Suicide research which will help in planning future research activities at AIIMS.


Signature of ICMR-International Fellow

ICMR Sanction No. INDO/FRC/452/Y-13/2017-18-IHD, Dated 26-05-2017