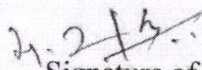


REPORT

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

1. Name and designation of ICMR- IF : Dr. Manikannan Mathayan
Scientist C,
2. Address : Center for Drug Discovery and Development,
Sathyabama Institute of Science and Technology,
Chennai, 600119. India
3. Frontline area of research in which
training/research was carried out : Herpes simplex virus pathogenesis
4. Name & address of Professor and host institute : Barry T Rouse, Distinguished
Profess, Dept. of Microbiology, University of Tennessee, Knoxville, US
5. Duration of fellowship with exact date : 01-01- 2020 to 14-11-2020
6. Highlights of work conducted : Learnt techniques and understood concepts role
of regulatory T cells eon HSV-1 infected mice corneal model system.
 - i) Technique/expertise acquired : 1. Development of stromal keratitis on mice
2. Expansion and differentiation of regulatory T cells
 - ii) Research results, including any papers,: No. Manuscript is under preparation May
be published
prepared/submitted for publication
 - iii) Proposed utilization of the experience in India:

To study inflammatory events occur in eye which is a major cause for vision loss. Herpes Simplex Virus causes chronic inflammatory reaction in the corneal stroma. This can be controlled by using regulatory T cells and studying Treg plasticity and its contribution to causing tissue damage in the eye. In addition a novel approach will be applied on neovasucrization development. By this study, mechanism and therapeutic approach of vision loss will be effectively identified.


Signature of ICMR-IF

ICMR Sanction No. ICMR/FRC/452/(Y081)/2019-20-IHD