

**Progress report of ICMR International Fellowship for Senior Bio-medical
Scientists 2016-2017**

1. **Name and Designation:** Dr. Soma Banerjee
Associate Professor
2. **Address:** Center for Liver Research
School of Digestive and Liver Diseases
Institute of Post Graduate Medical Education and Research
244, Acharya Jagadish Chandra Bose Road
Kolkata-700020.
3. **Frontline area of Research:** Exosome mediated delivery of **microRNA**
in which Training into liver for therapy purposes
or research was carried out
4. **Name & Address of Professor:** Prof. Thomas Schmittgen
and host Institute University of Florida
College of Pharmacy
Department of Pharmaceutics
1225, Center Drive
P.O.Box: 100486
Gainesville, FL.
5. **Duration of the fellowship** 15 days
6. **Highlights of the work conducted**
- i) **Technique/expertise acquired:** a) Orthotropic injection of cancer cell
line or drug into mice liver and whole
body imaging.
b) Isolation of miRNA loaded exosome
and delivery into mice.
c) CRISPER-CAS9 mediated gene
knock out in human cell line.
- ii) **Research results, including
any papers, prepared/submitted
for publication:** Not feasible in 15 days
- iii) **Proposed utilization of the
experience in India:** a) Delivery of miRNA in mice liver
b) CRISPER-CAS9 mediated gene Knock
out in human cell line.

ICMR sanction No: INDO/FRC/452/S-17/2016-17-IHD.

Soma Banerjee

Signature of ICMR-IF

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