REPORT

Report on participation of the DHR-ICMR International fellowship under Long Term Fellowship/Training in Foreign institute under the scheme of 'Human Resource Development for Health Research:

for Health R	lescarcii.	
1.	Name and designation of DHR-ICMR-IF	Dr. Manju Singh, Assistant Professor
2.	Address	University Institute of Pharmacy, Pt. Ravishankar Shukla University, Raipur (C.G.)-492010
3.	Frontline area of research in which training/research was carried out	Proteomics and Advanced dermatokinetics
4.	Name & address of Professor and host institute	Dr. S. Narasimha Murthy, Associate Professor-Pharmaceutics, 113 Faser Hill, The University of Mississippi University, MS 38677, USA
5.	Duration of fellowship	6 months
6.	Highlights of work conducted i) Technique/expertise acquired	Dermal Pharmacokinetics of drugs, Biophysical equipment- Iontophoresis, Microdialysis for sampling drugs from different tissues, Franz diffusion cells, Ultrasound bath, ELISA, Western blotting, cell culture, Plasma Pharmacokinetics of drugs. Skin microdialysis for evaluation of intradermal drug delivery.
	ii) Research results, including any papers prepared/submitted for publication	Project has been undertaken to formulate and optimize nanostructured lipid constructs of omega fatty acids loaded with fluocinolone acetonide for dual effect on autoimmune dermal disorders like psoriasis. Few studies are still underway and results awaited after which paper will be communicated in well refereed journal. One paper and one book chapter has been accepted and epublished in elsevier journals 1. Design, characterization and skin permeating potential of Fluocinolone acetonide loaded nanostructured lipid carriers for topical treatment of psoriasis, Steroids. Volume 101, September 2015, Pages 56–63 IF-2.8.

		2. Skin autoimmune disorders: Lipid
		biopolymers and colloidal delivery
		systems for topical delivery. Ed: Alex
		Alexandru Mihai Grumezescu. Volume
		X: NanoBioMaterials in Galenic
		Formulations and Cosmetics
		(Applications of NanoBioMaterials)
		(ELSEVIER) edited by Alexandru Mihai
		Grumezescu
iii)	Proposed utilization of	The experience gained at the lab of Dr.
	the experience in India	Murthy on dermatokinetics will aid in
		establishing the preliminary work on
		molecular aspcts of dermal delivery
		systems and advanced dermatokinetics.
		The techniques and training acquired
		during fellowship will be utilized for the
		ongoing and future programmes of the
		parent institute. Further collaboration is
		underway with Dr. Murthy's lab and
		parent institute.

Sanction no.

HRD Fellowship-I(2) 2014-15 Dated: 07th Oct.,2014

Signature of DHR-MHRD IF