**REPORT**

Report of the Fellow who availed Fellowship / Training under Human Resource Development for Health Research.

1. Name and designation of Fellow : Dr. Shailaja Shukla, Professor of Pathology

2. Address  : Lady Hardinge Medical College, New

 Delhi

3. Type of Fellowship and period : Short term training in Indian Institute;

 one month

4. Duration of fellowship : 19/08/2014 to 18/09/2014

5.         Frontline area of research in which : Medical Biotechnology : use of Polymerase

 Chain Reaction technique

           Training /research was carried out

6.       Name & address of mentor and host institute : Dr. Renu Saxena, Professor & Head,

 Department of Haematology, AIIMS,

 New Delhi.

 7.         Highlights of work conducted             :

            i)          Technique/expertise acquired           : learnt genomic DNA isolation from peripheral blood leukocytes in which blood samples were lysed, washed, proteins digested and removed and finally DNA precipitated with ethanol/ isopropanolol. Also learnt to check the quality of isolated DNA by measuring its optical density and thus its concentration on a Nanodrop spectrophptometer. Technique of RNA extraction from peripheral blood leucocytes was also acquired along with subsequent synthesis of its complementary DNA using the cDNA synthesis kit. Once the optimal DNA was obtained, learnt to make more copies of it(amplification) using Taq polymerase, Deoxynucleotide Triphosphates(dNTPs) and the primers of interest(the primers chosen depend upon the particular mutation to be identified) which were then processed on a thermal cycler to obtain the amplified PCR product. The PCR product was then run on agarose gel electrophoresis system with positive and negative controls and a 100 bp DNA ladder to look for the presence of a specific mutation which was identified by the presence of a protein band of a particular bp molecular weight on a gel documentation system by UV transillumination. The expertise to cast the gel and load samples (amplicons) in the electrophoretic wells in the gel bath was acquired.

ARMS (Amplification refractory mutation system) PCR technique for detection of mutations in thalassemias and the JAK-2V617F mutation in patients of polycythemia vera was acquired. Also learnt to detect the FLT-3 mutation and BCR-ABL translocations. The technique of RT-PCR for detection of BCR-ABL mutation in patients of CML and ALL in the RNA extracted from their peripheral blood was acquired. Learnt the techniques of Multiplex PCR and nested PCR for detection of BCR-ABL translocations.

ii)  Research results, including any papers,

prepared/submitted for publication NA

(Give in about 300 words)

iii)  Proposed utilization of the experience : it is proposed that all newly diagnosed

in the Parent Institute. (Please specify cases of Acute Lymphoblastic Leukemia

the project developed whether will be tested for the presence of bcr-abl

originally proposed/ new project) translocation by PCR technique.

 Signature of Fellow

**CONFIDENTIAL**

**REPORT OF HOST INSTITUTE**

 1.         Name of Professor                                           :

            (under whom training was carried out)

 2.         Name and address of host institute                  :

 3. Name and address of the fellow                   :

4.         Duration of fellowship                                     :

5.         Brief highlights of the achievements               :

6.         Your assessment of the Fellow (on a scale of 0-10):

 i) Accomplishment of planned work /work allotted:

ii) Accomplishment of exceptional work/ unforeseen tasks performed:

iii) quality of output :

iv) Intellect / analytical ability :

v) Attitude to work :

vi) Sense of responsibility :

vii) Capacity to work in team :

viii) Leadership qualities :

ix) Strategic planning ability :

x) Decision making ability :

7.         Any other comments                                      :

                                                                                                Signature

Name, Designation and Host Institute address

 **CLAIM SHEET**

(To be filled in by the Fellow)

 1.         Name, Designation and Address                     : Dr. Shailaja Shukla, Professor of

 Pathology Lady Hardinge Medical

 College New Delhi

2.         ICMR Sanction letter No. and date                  : DHR/HRD-Fellowship/III (V)/13-14

  dated 13/08/2014

3.         Broad area of research                                      : Biotechnology

4.         Chosen area of training                                     : Polymerase Chain Reaction techniques in

  hematooncology

5.         Name, designation & address of : Dr. Renu Saxena, Professor & Head,

            Professor/Mentor of host institute Department of Haematology,                                                   AIIMS, New Delhi

6.         Duration of the training-----to------months   : 19/08/2014 to 18/09/2014 ; one month

7.         Details of expenditure on the training

 A         TRAVEL :

 i)                    Place of work in India                                       : New Delhi

ii)                  Port of embarkation with date of departure       : NA

 iii)                Port of disembarkation with date of arrival      : NA

 iv)                Venue of training if in a city different from      : NA

 iii) above

v)                  Air fare for onward travel to venue by shortest route : Rs. NA

vi)        Air fare for return travel                                             : Rs. NA

vii)       Total expenditure on Air travel (v + vi)                      : Rs. Nil

B.        Fellowship Rs.20000..x..1 months                               : Rs. 20000/-

  C.        Contingency                                                                            : Rs. Nil

            iii) Taxi charges from place of duty to airport and back         : Nil

D.        Total (A to C)                                                                         : Rs. 20000/-

 **Certificate :**

 Certified that I have participated in the above training/research programme and the particulars furnished above are correct. I also certify that I have not received any financial assistance from any other source.

 Date:                                                                                                   Signature

Name & Address

of  Fellow

Dr. Shailaja Shukla,

Professor of Pathology,

LHMC, New Delhi.

**Please attach the following documents:**

1. Original receipts for items claimed against contingency grant (Item. C).
2. Original receipt of Hotel/Guest house accommodation charges to be submitted by Senior Fellows.

**Details to be furnished by Fellow**

 1.         Total grant received                                        : Rs. 20000/-

 2.         Sanction Letter no. & date                             : DHR/HRD-Fellowship/III (V)/13-14

 Dated 13/08/2014

 3.         Total expenditure incurred on training

            of the Fellow                                                   : Rs. 20000/-

 4.         Amount to be released to the concerned Fellow : Rs. 20000/-

5.         Balance (if available) returned/being returned to DHR/ICMR: Nil

6.         Utilization certificate in the proforma enclosed:

 **Certificate:**

            Certified that Fellow has been paid grant as sanctioned by ICMR column 2 above for training abroad and as per guidelines of the DHR Fellow of HRD scheme.

                              Date:                                                                                 Signature

Name& Address  of Fellow

Dr. Shailaja Shukla,

Professor of Pathology,

Lady Hardinge Medical College,

New Delhi.

**UTILIZATION CERTIFICATE**

1.         Title                                                                 : HRD Fellowship Sponsored by DHR

 2.         Address of the Institution                          : AIIMS, New Delhi

3.         Name & designation of Fellow                  : Dr. Shailaja Shukla, Professor of Pathology,

  LHMC, New Delhi

4.         DHR/ICMR sanction letter no. & date      : DHR/HRD-Fellowship/III (V)/13-14 dated

 13/08/2014

 5.         Amount that was available for expenditure    : Rs. 20000/-

 6.         Actual expenditure                                         : Rs. 20000/-

 7.         Unspent balance if any                                   : Nil

 8.         Balance to be reimbursed to the Fellow     : Rs. 20000/-

 Certified that out of Rs 20000..of grant-in-aid sanctioned during the financial year 2014-15….in favour of Dr. Shailaja Shukla, DHR Fellowship awardee under DHR/ICMR sanction letter No. DHR/HRD-Fellowship/III (V)/13-14 dated 13/08/2014. A sum of Rs. 20000 has been utilized for the purpose of research/training in respect of Dr. Shailaja Shukla, the fellow for which it was sanctioned and that the balance amount of Rs. 20000 due to the awardee may please be reimbursed.

Date:                                                                                         Signature of Fellow

To,

Mr. R. B. Gupta,

Scientist E,

ICMR, N. Delhi.

Sub : submission of documents after completion of short term Fellowship training under HRD

 scheme of DHR (DHR/HRD-Fellowship/III (V)/13-14 dated 13/08/2014 )

Sir,

 With reference to above, this is to state that I have completed my one month training in AIIMS from 19/08/2014 to 18/09/2014. I am now submitting all the relevant documents including the Certificate of successful completion of training, Fellowship Report, Releiving Order, Joining Report, Claim Sheet and Utilization Certificates duly filled. Kindly release the stipend amount. I would greatly appreciate if you could issue a cheque for the same.

 Thanking you,

 Yours sincerely,

 Dr. Shailaja Shukla

 Professor of Pathology,

Lady Hardinge Medical College,

 New Delhi