

1. Name of the Employee : Dr. Richa Baranwal
2. Email id : [rbarnawal@nib.gov.in](mailto:rbarnawal@nib.gov.in)
3. Designation : Scientist Grade-III
4. Division/LAB: Laboratory: Immunodiagnostic Kits & Molecular Diagnostic Lab
5. Educational Qualification : M.Sc (Biotechnology), M.Tech (Biochemical Engineering & Biotechnology), Ph.D (Biotechnology)
6. Year of Joining : 2009 at NIB
7. Professional Experience : (Period & Details in brief)



**From 2009 to 2013 (~4 years):** Scientist Grade III in Recombinant Product Laboratory

Established Quality Control Evaluation of recombinant Products like Filgrastim (G-CSF) & Interferon  
Established Cell Culture Bioassay laboratory and cell line based Bioassay for G-CSF. Contributed in development of monographs of (i) Filgrastim (G-CSF) & (ii) Interferon

**From 2013 to 2018 (~ 5 Years):** Scientist Grade III in Enzymes & Hormones Laboratory

Engaged in Quality Control Evaluation of Enzymes like Streptokinase, Urokinase, Heparin and Hormones like hCG, HMG, FSH, Somatropin as per Indian, European, British or other Pharmacopoeias. Contributed in development of monographs of (i) Human Menopausal Gonadotropin (Bulk & Injection) (ii) Recombinant Follicle Stimulating Hormone (iii) Somatropin Drug substance & Drug Product

Participated in an International collaborative study to establish the WHO 4<sup>th</sup> International Standard for Streptokinase. The study was published in Journal of Thrombosis and Haemostasis / Volume 18, Issue 6, p. 1501-1505 -An international collaborative study to establish the WHO 4<sup>th</sup> International Standard for Streptokinase: Communication from the SSC of the ISTH

**From Sep 2018 to till date (~ 2.6 Years):** Scientist Grade III in Immunodiagnostic Kits & Molecular Diagnostic Laboratory

Engaged in Quality Control Evaluation of Immunodiagnostic & Molecular Diagnostic kits of HIV, HCV, HBV and Syphilis. Involved in establishment of Covid 19 sample testing laboratory and testing of clinical samples received through ICMR on M/s Roche cobas 6800 equipment.

In-charge of Training Unit from 2015- July 2017

## **8. Major Publications:**

- i. Evaluation of therapeutic recombinant follicle stimulating hormone batches for their identity and potency before use in patients- International Journal of Current Research Vol.08, Issue 01, Pages. 25049-25052 January 2016.
- ii. Assuring the Quality of Human Menopausal Gonadotropin (Menotrophin) batches by establishing their FSH and LH activities before use in treatment of infertility- International Journal of Current Research Vol.08, Issue 02, Pages. 26214-26217 February 2016.
- iii. Elucidation of catalytically important residues in a large family 3 beta-glucosidase from *Pichia etchellsii*. New Biotechnol. , 25 (2009), 126. Laccase of *Cyathus bulleri*: structural, catalytic characterization and expression in *Escherichia coli*: Biochemica Biophysica Acta (BBA) -Proteins and Proteomics, Impact Factor 2006: 3.31
- iv. Yeast Genetics and Biotechnological Applications: (Book chapter published by Springer-Verlag in a book on Yeast Biotechnology)

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