



YENEPOYA

(DEEMED TO BE UNIVERSITY)

Recognized under Sec 3(A) of the UGC Act 1956

Accredited by NAAC with 'W' Grade

Details of the Collaborative Activities under Functional MoUs/Linkages

Collaborating Institute: Central Coalfields Limited, Public Sector Undertaking under the aegis of Ministry of Coal, Ranchi, Jharkhand

Year of MoU:2020

Activities:

1. Joint Research Projects ongoing (ICMR)

The following research studies/projects of Center for Nutrition Studies, YDU have been supported by Central Coalfields Ltd.:

- a) **Immune project:** To evaluate selected aspects of cellular immunity in patients with active TB, before and after treatment using the lymphocyte subsets (CD4 and CD8) and kinetics of interferon γ responses (by CD4 and CD8 cells) in a 4th generation-Interferon Gamma Release Assay (IGRA) (QuantiFERON-TB Gold Plus or QFT-Plus) in undernourished HH contacts of patients with microbiologically confirmed pulmonary tuberculosis in both the arms
- b) **Project on diet:** To evaluate the difference in dietary intake of calories, proteins at baseline, 2 months, and at end of treatment in as subsample of the patients.
- c) **Project for micronutrients:** Vitamin A (serum retinol) Vitamin D [25(OH)D] levels in a subsample in index patient and HHCs.
- d) **Project on body composition:** To evaluate the difference in body composition (fat-free mass and fat mass) between patients in the 2 arms at baseline, 2 months and 6 months (12 months in a patient with MDR-TB) by a multifrequency bioelectric impedance analyzer (Bodystat Quadscan 4000).
- e) **Project on muscle function and grip strength** in a subsample of index cases at baseline, 2 months and end of treatment using hydraulic hand-held dynamometer

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2. **Purchase of Equipment:** Three equipments which are required for the study were procured for the joint research funded by ICMR

- Flow Cytometer
- ELISA Reader
- X-Ray Digitizer

3. **Training in Basic Flow Cytometry:** Ms Alice Lakra, Dr Anurag Bhargava, Dr Madhavi Bhargava have attended the 10hrs online course on “Introduction to basic theory of Flow Cytometry, data acquisition and analysis, quality control, compensation, and common research assays” as a part of the joint study in collaboration with Central Coal Fields.

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CERTIFICATE OF PARTICIPATION

This is to certify that

Dr Anurag Bhargava

has attended the online course in

'Basic Flow Cytometry'

Organized by Centre for Cellular and Molecular Platforms (C-CAMP) held during 1 to 3 July, 2020

This 10hrs online course included introduction to basic theory of Flow Cytometry, data acquisition and analysis, quality control, compensation, and common research assays. Technical and applications discussions provide essential knowledge about the use of Flow Cytometry as a tool for probing various research problems.

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T.T. Saied

Dr. Taslimarif Saied
CEO & Director
C-CAMP

M. Joshi

Mr Mukund Joshi
Field Marketing Manager
Beckman Coulter Life Sciences
India/South Asia region

CERTIFICATE OF PARTICIPATION

This is to certify that

Dr Madhavi Anurag Bhargava

has attended the online course in

'Basic Flow Cytometry'

Organized by Centre for Cellular and Molecular Platforms (C-CAMP) held during 1 to 3 July, 2020

This 10hrs online course included introduction to basic theory of Flow Cytometry, data acquisition and analysis, quality control, compensation, and common research assays. Technical and applications discussions provide essential knowledge about the use of Flow Cytometry as a tool for probing various research problems.

T.T. Saiyed

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