



SUMMER TRAINING

AT

Dr B BOROOAH CANCER INSTITUTE

A Grant-In-Aid Institute of the Department of Atomic Energy, Govt. of India

And a Unit of Tata Memorial Centre (Mumbai)

Gopinath Nagar, Guwahati-781016

Dr. B Borooah Cancer Institute(BBCI), Guwahati with support from the Tata Trusts, Mumbai is organizing two weeks summer training on (1) Cancer Registry and Epidemiology, (2) Hands-on training on Molecular Cancer Biology, and (3) Palliative Care from **2nd July 2018 at the BBCI.**

Applications open: 1st June 2018

Last date of application submission: 20th June 2018

Outcome of applications to be notified by e-mail: 25th June 2018

***In case the number of applications for each course exceeds the available places, internal selection committee will finalize the participants for each of the training courses.**

Interested candidates are required to submit an application (e-mail), CV, and brief statement (max 100 words) to **bbcighy2015@gmail.com**. The subject line should be the **name of the summer training programme**. Applicants are required to provide their phone number(s) in the e-mail.

All applications should accompany the following statement (max 100 words):

What is your motivation to attend the summer training?

(1) Summer training on Cancer Registry and Epidemiology

This year's theme "*Cancer Registry in Cancer Control*"

Profile of trainees: MSc or MA (completed or ongoing) in Life Science/Social Work/Sociology/Statistics/Biotechnology

***Places available:** 15

Training fees: Nil

Background & Importance

Population based cancer registries representing all across the country are required for generating national data of cancer incidence and mortality. However, there are only 31 PBCRs in the country and that does not reflect the national cancer scenario in totality. In Assam, so far three population based cancer registries have reported data on cancer incidence and mortality, and they cover less than 10% of state's population on cancer registration. There is an unmet need for increasing the population coverage of cancer registration in the state to boost the existing cancer control efforts. The summer training on Cancer Registry and Epidemiology will create the necessary manpower to work in a cancer registry, and hence it is needed for starting newer cancer registries in the state of Assam. The summer training of Cancer Registry and Epidemiology is a practical oriented training course with theory classes in the beginning.

(2) Hands-on Summer Training Molecular Cancer Biology

Theme "*Application of PCR for Analysing Gene Polymorphism in Human Disease*" for North-Eastern Region Students

Profile of trainees: M.Sc. (pursuing or completed) in Life Sciences discipline.

Places available: 15

Training fees: Nil

About the programme

This training programme will cover the fundamental principles and techniques of Molecular Biology basically used in experimental research for Gene Polymorphism analysis with specific reference to cancer. North –Eastern region of India has been identified as high cancer incidence area among the PBCRs of the country. NE region has various distinct ethnic group and life style. Genetics and environment play a complex role in disease initiation and progression process. Genetic Polymorphism of various genes has been found to be associated with increased or decreased risk of cancer worldwide but with variation to the geographical areas. The current

summer training course will be beneficial for the trainees who may take up their career in cancer research on North Eastern region high occurrence cancer sites and genetic polymorphism analysis can be a useful tool to address some extent the questions within the communities about habit and their relation with cancer. The training programme will provide opportunity to the participants to get hands on experience of the facilities which are available for Molecular Biology research at Dr B. Borooah Cancer Institute and how it can be used for greater good of the society and cancer patients.

Programme Module

A theoretical introduction to topics of Molecular Biology and techniques in cancer will be followed by the experimental protocols, which will entail practical execution by the participants in the laboratory.

- DNA isolation from blood & Electrophoresis
- Electrophoresis of Isolated DNA
- Quantification of Isolated DNA
- PCR Amplification of Gene of Interest for Polymorphism
- Real Time PCR for gene polymorphism analysis

Lectures by Eminent Scientists / faculties

(3) Summer training in Palliative Care 2018

Profile of trainees: HS and above

Places available: 20

Training fees: Nil

At the Department of Palliative Medicine, Dr B Borooah Cancer Institute we believe that a well-trained staff is essential to support the needs of cancer patients and families. Palliative care is the active total care applicable from the time of diagnosis, aimed at improving the quality of life of patients and their families facing serious life-limiting illness, through the prevention and relief of suffering from pain and other physical symptoms as well as psychological, social and spiritual distress through socially acceptable and affordable interventions.

A multi-professional team comprising of Doctors, Nurses, Social Workers, volunteers etc are necessary to care in physical, psychological, social and spiritual aspects of care. As part of team

approach or independently a volunteer has the potential to transform the accessibility and care provided to patients. We are therefore very pleased to inform the Introduction of Summer Camp to the interested general public.

Any person, who has seen the horrific experience of Cancer, has seen the patient and relative suffering in his locality and willing to do some service, help the patient and family members can join this training. We will be glad to train them as volunteers who will work for the patients in his community. This will be volunteer training who will know something about cancer, its early signs, and treatment facilities available and the approach and techniques of Pall Care.

Learning Opportunities in Palliative Care:

- Palliative care & its importance
- Communicating with patients
- Counselling (patients & relatives)
- Bedside teaching
- Social and Financial counseling with patients
- Nursing care
- Home Care
- Dressing methods
- Government & NGO support for cancer treatment.
- Video conference with mentors from different parts of India.

There is critical need for generating Trained Volunteer to improve the Palliative Care services and to develop better Palliative Care Services in this region. Our aim is to motivate individuals who will be willingly to serve patients in the community.