



Course Code : [174038H01]

# Short-term course on Cancer Health Disparity

## Overview

The current nature of biomedical research, especially cancer research and education, is heavily focused on the use of dedicated research facilities and working in teams and research collaborations. Although the primary purpose of the proposed course is to encourage the development of scientific research skills, stakeholders (undergraduate, graduate, postdoctoral fellows, junior faculty, the public and members from industry) will be exposed to cancer education and research preparation at Guru Ghasidas University. This opportunity will enable interaction between stakeholders to enrich their cancer education. The expectations of this course include exposing stakeholders to cancer research and education; preparing them for independent research; fostering self-confidence and team-working abilities in observation, recording, and interpreting data; providing mentoring interactions between the faculty and students; developing scientific communications skills; and providing exposure and career guidance and information about cancer careers in academia, government, and industry. Therefore, the overarching goal of this course is to promote the understanding of the etiology of racial, ethnic, and socioeconomic cancer disparities and to develop improved approaches to reducing and eventually eliminating those disparities. This course will provide basic knowledge of attaining excellence in research focused on the basis of cancer health disparities and on reducing the cancer burden.

## Objectives:

The primary objectives of the course are as follows:

- to tap the pool of talented students, faculty, and oncologists
- to promote a Cancer Research and cancer health disparity issues
- to encourage graduate and undergraduate students across various scientific disciplines to pursue careers in the biosciences through Cancer research
- to attract industry partner to invest in cancer research to encourage oncologists to collaborate with basic scientists
- to promote cancer awareness and healthy lifestyles in the community

Course participants will learn about these topics through lectures and hands-on experiments. Also, case studies and assignments will be shared to stimulate research motivation of participants.

<b>Course Schedule</b>	<p align="center"> <b>Short-term course on Cancer Health Disparity</b>  <b>December 18-22,2017</b>  <b>Number of participants will be limited to 30 only</b> </p>
<b>Course Modules</b>	<ul style="list-style-type: none"> <li>• 101 of cancer initiation and progression of cancer and Cancer Health Disparity</li> <li>• Molecular signatures that impact health disparity</li> <li>• Impact of Socioeconomic factors on health disparity</li> <li>• Importance of cancer education and awareness and Lessons for public and health care providers</li> <li>• Challenges in cancer detection and cure</li> <li>• Impact of modern cancer research and nanotechnology in cancer cure</li> <li>• Cancer prevention-effective practices</li> <li>• Tips to prevent cancer incidences through general awareness and other programs that help in cancer health</li> <li>• Basic research and laboratory technical skills</li> </ul>
<b>You Should Attend If...</b>	<ul style="list-style-type: none"> <li>• You are a Post-Graduate with interest in cancer biology.</li> <li>• You are a research scholar and working in the area of cancer biology and nanotechnology.</li> <li>• You are a research scholar or faculty from academic institution interested in learning cancer biology related techniques.</li> <li>• Researchers from government organizations including R&amp;D laboratories. Students at all levels (B. Tech/M.Sc./M.Tech./PhD) or Faculty from reputed academic institutions and technical institutions.</li> </ul>
<b>Fees</b>	<p> <b>The participation fees for taking the course is as follows:</b>  Participants from abroad: US\$100.00  Industry/Research Organizations: Rs. 5000.00  Academic Institutions:  Research Scholar: Rs.3000.00(with Fellowship)  Rs.1500.00(without Fellowship) *  Faculty Members: Rs.4000.00 </p> <p> <b>Note:</b> The above fee includes all instructional materials, <b>working lunch</b> Coffee/Tea on breaks, Computer use for Tutorials and Assignments, Free Internet Facility. The participants will be provided accommodation on nominal charges, shared basis that to on request, first come first serve basis. Participants must register on the <b>GIAN</b> portal <a href="http://www.gian.iitkgp.ac.in/GREGN/index">http://www.gian.iitkgp.ac.in/GREGN/index</a> by paying one-time registration fee of Rs.500,then select the programme after registration, later pay the above-listed registration fee at the <b>VENUE(GGV Bilaspur(CG)).*Come along with HOD/Principal'Letter.</b> </p>

## Faculty



Dr. Manoj Mishra is an Associate Professor of Biology and founding Director of Cancer Biology Research and Training Program and Freshmen Biology Program at Alabama State University, Montgomery, AL, USA. His research interest includes tumor biology, tumor immunology and cancer health disparity. Dr. Mishra completed his postdoctoral training at Kansas State University, Washington University in St. Louis and Medical College of Wisconsin. Currently, Dr. Mishra lab is supported

by research and educational grants from US Department of Defense (DOD), National Institutes of Health (NIH) and National Science Foundation (NSF). In 2013, Dr. Mishra was recognized as Top 25 professors at HBCU in USA, in 2015 he received Faculty of the year award and received awards from American Association of Cancer Research for his cancer research work at ASU. Dr. Mishra has authored more than 40 peer-reviewed articles, several book chapters and co-edited two books on cancer and cancer epigenetics. Dr. Mishra regularly serves on several NIH, DOD, and NSF study sections.



Dr. Ajay Kumar is an assistant Professor of Zoology at Banaras Hindu University. He is also an Adjunct Faculty at Interdisciplinary School of Life Sciences, BHU. Dr. Kumar has 7 years of research experience in the field of oncology and tumor immunology especially with respect to the designing of novel cancer therapeutics by targeting tumor-specific unique aspects of tumor metabolism and tumor growth regulating components of tumor microenvironment including cognate and non-cognate cellular and molecular interactions. Dr. Kumar published thirteen research papers in peer-reviewed journals of international repute. He has also published books brought out by nationally and internationally recognized publishers. He is also actively guiding doctoral research and project dissertations.

## Course co-ordinator

Dr. Renu Bhatt, Dean, School of Life Sciences

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For Registration and select the course:

<http://www.gian.iitkqp.ac.in/GREGN>



Dr. Renu Bhatti is an Associate Professor of Biotechnology.

Currently, she serves as the Dean School of Life Science and Head of the department of Biotechnology at Guru Ghasidas

Vishwavidyalaya (A Central University), Bilaspur (Chhattisgarh State). She obtained her doctoral degree in Zoology and Neuroendocrinology as major subject from Banaras Hindu University, Varanasi, Uttar Pradesh, India. She has been working for 12 years in different reputed Laboratory as a post doctoral associate and Research Faculty in United States of America and published several publications in peer reviewed Journals. She has been specialized in different fields and worked in cell and molecular biology, chemotherapeutic drugs and nephrotoxicity during her post- doctoral research and now she has been actively engaged and guiding students for Ph.D degree in Nephrotoxicity and nano- technology research at GGV, Bilaspur, Chhattisgarh.