

**MHRD-GIAN COURSE ON-**

# **Anti-Inflammatory Life Style for Prevention and Treatment of Cancer and Neurodegeneration: Facts and Fiction**

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## Overview

Inflammation is body's autoimmune response to things it finds threatening or dangerous. It frequently occurs when we are exposed to things such as allergens, chemicals, toxins, and other types of microorganisms. The problem is that when inflammation becomes chronic, the body can actually end up damaging its own tissues. Over the last decade the medical world has begun to realize that inflammation is the cause behind many chronic diseases from Cancer(s), neurodegenerative disorders such as Alzheimer's and Parkinson's disease.

Present course will focus on the interaction between inflammation and chronic diseases and trace the development of successful natural remedies basing on traditional knowledge of the age old civilizations with special reference to India; further their scientific validation in the light of modern medicine and eventually developing successful and affordable therapeutic strategies. Further we will discuss the potential of various dietary agents, also called nutraceuticals derived from spices, lentils, nuts, fruits, and vegetables; and agents from traditional medicine in suppression of inflammatory pathways and their role in prevention and therapy of cancer and neurodegenerative disorders such as Parkinson's disease.

The primary objectives of the course are as following: To define the role of inflammation in human disease; To describe the role of nutraceuticals in containing the inflammation; To critically evaluate the potential of natural remedies in the light of modern medicine in developing therapeutics at affordable price; To understand the insights on power of nutraceuticals in suppression of inflammatory pathways from studies in cell culture, model organisms such as *Drosophila* to human clinical trials.

Course participants will learn these topics through lectures and hands-on experiments.

<b>Dates</b>	<b>27-8-2019- 31-8-2019 (5 days)</b> <b>Number of participants for the course will be limited to fifty.</b>
<b>You Should Attend If...</b>	<ul style="list-style-type: none"> <li>▪ You are a biomedical researcher or/and faculty at University, Government and Industry R&amp;D laboratories</li> <li>▪ You are pursuing M.Sc/B.Tech/M.Tech/Ph.D/ in any branch of life sciences.</li> <li>▪ You are a post doc and interested to pursue a career in human disease related research with special reference to cancer or/and neurodegeneration.</li> </ul>
<b>Fees</b>	<p>The participation fees for taking the course is as follows:  <b>Participants from abroad : US \$500</b>  <b>Industry/ Research Organizations: `Rs. 10000</b>  <b>Academic Institutions: Rs. 1000</b></p> <p>The above fee include all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges, 24 hr free internet facility. The participants will be provided with accommodation on payment basis.</p>

## The Faculty



**Prof. Bharat B. Aggarwal** is currently a Founding Director of an *Inflammation Research Center* in San Diego, California, USA. Dr. Aggarwal started his career with a start-up Biotech company, *Genentech Inc* where his work led to the discovery of *TNF- $\alpha$*  and *TNF- $\beta$* , an essential component of the immune system; and identification of their receptors. Previously he was a Professor at University of Texas M. D. Anderson Cancer Center, USA. He has been investigating the “*Role of Inflammatory Pathways Mediated through TNF, NF-kappaB, STAT3, and CXCR4 for the Prevention and Therapy of Cancer, Osteoporosis and other Chronic Diseases*”. He is inventor/co-inventor on over 33 patents. He has been listed as one of the most highly cited scientist by the Institute of Scientific Information in the World. Dr. Aggarwal has published *about 700 papers* in peer-reviewed international journals (including Science, Nature, Cancer Cell, PNAS, Journal of Experimental Medicine, Blood, Journal of Biological Chemistry, Cancer Research, Journal of Immunology).



**Prof. Sarat Chandra Yeniseti** is a faculty of Department of Zoology, Nagaland University, Lumami, Nagaland, India. Sarat obtained post doctoral training in neurogenetics from University of Regensburg, Germany and National Institutes of Neurological Disorders and Stroke (NINDS) of NIH, USA. He is head of *Drosophila* Neurobiology Laboratory in Nagaland University and follows *Drosophila* approaches to understand Parkinson's disease (PD) associated neurodegeneration and identify novel therapeutic targets which may help to reduce the burden of PD in human.

## Course Co-ordinator

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