



**MOLECULAR ONCOLOGY AND
MODERN TREATMENT
STRATEGIES
(MOMTS-19)**

BHARATHIDASAN UNIVERSITY

February 18-22, 2019

CALL FOR REGISTRATION AND PARTICIPATION

**Foreign Faculty
Dr. Appu Rathinavelu
Professor & Executive Director
Nova Southeastern University, USA**

**Course Coordinator & Host Faculty
Dr. A. Antony Joseph Velanganni**



**DEPARTMENT OF BIOCHEMISTRY
(DST-FIST SPONSORED)
SCHOOL OF LIFE SCIENCES
BHARATHIDASAN UNIVERSITY
TIRUCHIRAPPALLI – 620 024
TAMIL NADU
INDIA**

HOST FACULTY

Dr. Antony Joseph Velanganni is presently working as Assistant professor in Department of Biochemistry, Bharathidasan University, Tiruchirappalli. He has published many original articles in reputed journals.



He is very much interested in cancer molecular biology work included RNAi mediated gene knockdown, angiogenesis, autophagy and cell cycle. His current focus on defining of oncogene role in hepatocellular carcinoma and stress environment.

WE CORDIALLY INVITES

Delegates, Professors, Scholars and Students.

Welcome

FOR COURSE DETAILS, CONTACT

Dr. A. ANTONY JOSEPH VELANGANNI
COURSE COORDINATOR, GIAN
Department of Biochemistry
Bharathidasan University
Tiruchirappalli, Tamil Nadu, India
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FOREIGN FACULTY

Dr. Appu Rathinavelu, Ph.D., is serving as executive director of NSU's Rumbaugh-Goodwin Institute for Cancer Research, shortly known as RGI, since 2007. Rathinavelu is leading RGI's efforts to develop new therapeutics and treatment strategies for curing cancer.



His research team at RGI is actively engaged in drug discovery research, genomics research, and making good strides in identifying the active compounds that are naturally found in plants and other sources that might enhance the effectiveness of chemotherapy. In addition to his role with the RGI, Rathinavelu is an Associate Dean of Institutional Planning and Development at NSU's College of Pharmacy where he is holding the rank of Professor. Rathinavelu received his doctoral degree from the University of Madras in India, and conducted his post-doctoral training at Purdue University in West Lafayette, Indiana, before he joined NSU in 1992. Some of his noteworthy accomplishments are, Rathinavelu was awarded the Fulbright Award for excellence in Teaching and Research in 2015.

Rathinavelu has also received the U.S. patents for two anti-angiogenic agents that were designed to fight breast, ovarian, prostate, lung, and colorectal cancers. One of his newly discovered drugs has received patents from Japan, Korea, European Union, and Canada. Some of his other achievements includes published more than 70 peer-reviewed research articles, serving on the editorial boards of scientific journals, co-authored a text book, authored several book chapters and delivered more than 100 presentations at national and international conferences.

OVERVIEW

In this course the sequence of classes applies the principles of biochemistry, molecular biology, genetics, physiology, pathophysiology and pharmacology to understand the causes of cancer, cancer related mutations, treatment strategies, drug actions at the receptor, cellular, and system levels. It covers anti neoplastic agents and immuno modulators. The knowledge provided through this course are:

Tumorigenesis is a multistep process driven by genetic and epigenetic changes that occur over time. Although cancer is a heterogeneous disease, many human tumors exhibit similar acquired physiological features, defined as "The Hallmarks of Cancer" by Hanahan and Weinberg. This course will cover the underlying molecular and cellular biology involved in carcinogenesis, tumour growth, and metastasis. The implications of the biological findings on cancer prevention, diagnosis, and treatment will be covered.

This course will also provide the students with knowledge of the latest concepts in cancer biology and cancer therapeutics and a general appreciation of the rapid advances made in this area of biomedicine. The course is designed in such a way so that the lectures will thematically provide information: 1) How specific cellular processes are altered during cancer initiation and progression, 2) The impact of the environmental factors, nutrition and lifestyle that moderate the cancer risks 3) how the genetic landscape of human cancers is being deciphered 4) how different cancers are treated 5) how conventional therapeutics were designed to cure cancer 6) mechanisms of actions select category of anticancer drugs. 7) advantages & uses of immunotherapeutic and 8) new strategies in cancer drug discovery and development. Thus, This course will provide the students with a solid background in general cancer biology and cancer treatment strategies.

OBJECTIVES

The primary objectives of the course are as follows:

- Introduction to the incidence and epidemiology of different Cancers.
- Participants will be introduced to different risk factors that can cause cancers.
- Participants will learn about the molecular defects that are responsible for cancer development and growth.
- Participants will be introduced to different types of oncogene and their cancer causing effects.
- Participants will learn about different diagnostic techniques and their use for detecting cancers.
- Participants will learn about different classes of anticancer drugs.
- Participants will learn about the mechanism of action the classes of anticancer drugs and the drug related toxicity.
- Participants will be introduced to the specific indications and contraindications of the anticancer drugs.
- Participants will be introduced to different biological response modifiers that are of significant use in cancer treatment.
- Participants will learn about different biologics (biopharmaceuticals) that are currently in use for cancer treatment.

ABOUT DEPARTMENT

The Department of Biochemistry functions from 2005. The vision of our department is to create a good ambience for students & teachers to solve significant problems in biology and medicine. The mission of our department is to perform research at a higher level by integrating cutting-edge multidisciplinary, inter-departmental & inter-institutional approaches providing quality education and higher learning experience for students. The department is recognized by DST-FIST in 2011.

The areas of research include Membrane Biology, Molecular Gerontology, Molecular Endocrinology, Cancer Biology and Molecular Oncology. The department offers PG course, M.Phil, and Ph.D

HOW TO APPLY

The course is aimed for maximum of 50 participants. The course fee can be paid in the form of demand draft (DD) in favour of "**The Course Coordinator, MOMTS-19 Bharathidasan University**" Payable at Tiruchirappalli and send to Dr. A. Antony Joseph Velanganni, Course Coordinator, GIAN, Department of Biochemistry, Bharathidasan University, Tiruchirappalli-620 024, Tamil Nadu, India, along with registration form.

COURSE FEES

The participation fees for taking the course is as follows:

- Student/ Scholars : Rs. 2000/-
- Faculty and scientist : Rs. 3000/-
- Industry/ Research Organizations : Rs. 5000/-
- Participation from abroad : US \$200/-

The above fees includes all instructional materials and lunch only. The accommodations will be arranged in university hostels on payment basis

WHO CAN ATTEND

Students at all levels (B.Sc/M.Sc/ M.Phil/ Ph.D) or Faculty from reputed academic institutions and technical institutions.

IMPORTANT DATES

- Last date for receipt of completed application: **31. 01. 2019**
- Confirmation of registration will be communicated to the participants by e-mail : **07.02. 2019**



Global Initiative on Academic Network (GIAN)
A Course on
Molecular Oncology and Modern Treatment Strategies
February 18-22, 2019
Bharathidasan University
Tiruchirappalli- 620 024, Tamil Nadu, India



Registration Form

Name (Dr /Mr /Mrs/ Miss):.....

Father's Name:

Date of Birth (DD/ MM/ YY):

Gender (Male/ Female):

Nationality:

Present position:

Contact Information:

.....

Contact Number (Mobile):

Email:

Accommodation required: Yes/No

Details of payment (Bank draft for the requisite amount should be made in the name of "The Course Coordinator, MOMTS-19, Bharathidasan University"):.....

Date:

Signature of Head of the Department/Institution

Signature of Participant

Please send the completed form along with demand draft to:

Dr. A. Antony Joseph Velanganni, Course Coordinator, GIAN, Department of Biochemistry, Bharathidasan University, Tiruchirappalli- 620 024, Tamil Nadu, India.