

# RAD-IMMUNE

“RETHINKING RADIATION THE IMMUNE WAY”

An Online Continuing Medical Education (CME) Program by GHA



## COURSE OVERVIEW

Synchronised permutations and combinations of radiation usage with immunotherapy for cutting edge bench to bedside research adoption for Oncologists (Radiation Oncology, Medical Oncology, Surgical oncology, onco-radiologists, onco-pathologists), translational Researchers in immunology, cancer biology, genetics, and undergraduate medical students.

The ability of radiotherapy to enhance antigenicity and adjuvanticity of an irradiated tumour has stimulated the interest for its combination with immuno-oncology agents. However, radiotherapy often generates multiple layers of host responses which likely depends on the tumour biology, the immune cell infiltration, and the induction of immunosuppressive signals post radiotherapy. Consequently, translation of preclinical findings to the clinic is more convoluted than anticipated which underscore the need to decipher molecular and cellular mechanisms elicited by radiotherapy. Here we review pro-inflammatory and immunosuppressive mechanisms triggered by radiotherapy that impact the outcome of antigen specific T cell killing and discuss how radiation-induced immunostimulatory mechanisms can be exploited to reactivate the host's immune system, especially in the context of immunotherapy and hence catapulting into a new age of “**Immuno-Radiotherapy**”.



COURSE  
FLYER

## COURSE MENTORS



**DR. B.S AJAIKUMAR**  
EXECUTIVE CHAIRMAN  
HCG HOSPITALS



**DR. SHEKAR PATIL**  
SENIOR MEDICAL ONCOLOGIST  
HCG HOSPITALS



**DR. LOHITH REDDY**  
CONSULTANT RADIATION ONCOLOGIST  
CLINICAL LEAD - RADIOMICS AND AI IN CANCER  
HCG HOSPITALS  
BENGALURU



**DR. KRITHIKAA SEKAR**  
CONSULTANT RADIATION ONCOLOGIST  
HCG HOSPITALS  
BENGALURU

## COURSE DIRECTORS

## COURSE FACULTY

TOPIC	FACULTY
1 CLINICAL EXPERIENCE ON ABCOPAL AND RADSCOPAL EFFECTS	SILVIA FORMENTI
2 MITOCHONDRIAL DNA AND IT'S IMPACT ON IMMUNO-RADIO THERAPY	LORENZO GALLUZZI
3 FLASH RADIOTHERAPY	MARIE-CATHERINE VOZENIN
4 IMMUNE INTERACTIONS WITH RADIATION-THE BASICS	KRITHIKAA SEKAR
5 RADIATION THERAPY INDUCED REMODELING OF TME	SANDRA DEMARIA
6 COMBINATION OF HIGH DOSE WITH LOW DOSE RADIOTHERAPY TO SENSITIZE IMMUNOTHERAPY	JAMES WELSH
7 TIME-SYNCHRONIZED IMMUNE-GUIDED SBRT PARTIAL BULKY TUMOR IRRADIATION TARGETING HYPOXIC SEGMENT WHILE SPARING THE PERITUMORAL IMMUNE MICROENVIRONMENT	SLAVISIA TUBIN
8 PREGNANCY AND HOW IT PARALLELS WITH CANCER (RECORDED VIDEO)	KENNETH BEAMAN
9 STRATEGIES TO ENHANCE IMMUNOTHERAPY RESPONSE IN CONTEXT TO TUMOR STROMA	ANNA WILKINS
10 IMAGING FOR IMMUNE RESPONSE	SHIVKUMAR SWAMY
11 RADIATION SENSITIVITY INDEX AND GENOMIC ASSISTED RADIATION DOSING	JAVIER TORRES-ROCA
12 TARGETING THE RESISTENT TUMOUR STROMA	LOHITH REDDY
13 AGEING AND HOW IT PARALLELS WITH CANCER	JOAO PEDRO DE MAGALHAES

## COURSE HIGHLIGHTS

### Learning Objective:

The understanding of the immune system is changing the way we treat different types of cancer, and Focused Radiotherapy is an effective immuno-sensitizer that can potentiate the ability to fight cancer with technology. Using the techniques of leading cancer researchers and oncologists, this unique online course teaches professionals about cutting-edge immunotherapies combined with radiation treatment.

### LEARNING METHODOLOGY:

<b>01</b> Online interactive sessions.	<b>02</b> 2-week course - 1 hour each including the Q&A session (7-8 pm Indian standard time)	<b>03</b> Expert commentary on videos.
<b>04</b> Renowned oncologists with expertise in Immuno-Rad.	<b>05</b> Shared knowledge of translational research from the best labs working on Immuno-Rad concepts.	

### LEARNING OUTCOMES:

- Ground-breaking original research conception gluing bench to bedside.
- An Unlearn-Relearn approach to the applications of current era Radiotherapy.
- Access to the best and latest research in Immuno radiotherapy combine.

### WHO SHOULD ATTEND?

Radiation Oncologist, Medical Oncologist, Surgical oncologist, Onco-radiologists, Onco-pathologists, Translational Researchers in immunology, Cancer biologist, Genetics, Medical students, Radiation therapist, Physicists, Scientists, BSc Biotech, MSc Biotech, Phd's.

**HURRY!! LIMITED SEATS ONLY**

**BLOCK YOUR SLOT NOW!!!**

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