Sant Gadge Baba Amravati University, Amravati (Maharashtra)

(NAAC Reaccredited 'A' Grade University)

Department of Biotechnology

GIAN Short Term Course on

Basic immunology and Immunotherapy

(Course Code: 176039H01)

September 22-26, 2019

Overview

The science of immunology is the study of the immune system in both healthy and diseased states. Study of immunology is critical to human health and survival. Basic immunology provides insight into the developments and function of network of immune cells, tissues and organs and malfunctions of the immune system. This knowledge is of fundamental importance to understanding the various mechanisms underlying human diseases and to develop medical interventions to prevent and treat them. Study of immunology has led to some major health care advances including vaccination and cancer immunotherapy.

Immunotherapy, or the use of a person's own immune system to treat an infection or disease, has recently been at the forefront of cancer research. The increasing use of monoclonal antibodies and the recent success of immune check point inhibitors such PDL-1 based immunotherapy highlight the success of this approach in the treatment of cancers. Immunotherapy is also emerging as a novel treatment for various autoimmune diseases such as rheumatoid arthritis, type 1 diabetes, and multiple sclerosis, as well as conditions such as allergy and asthma. An understanding of the immune system in health and disease has the potential to develop further ways of manipulating it to maintain health. Furthermore, the discipline of immunology is increasing in complexity and utilizing skills from other sectors such as engineering, computing and bioinformatics. Future development of immunoassays and immunotherapies are going to require increased collaboration between these sciences. Therefore, it is essential to raise the awareness of basic immunology and immunotherapy

amongst students in Indian Universities not only in life sciences, but also in other disciplines such as engineering and computer science etc.

Modules

- Innate Immunity & Adaptive Immunity
- Antigen Processing and Presentation Dendritic Cells
- Immunotherapeutic approaches using Dendritic cells for treatment of various diseases including cancer.
- Autoimmunity and inflammatory diseases
- Allergy and asthma
- Bioinformatics based Immunoassays for diagnosis of diseases.
- Novel Engineering based approaches to develop device for immunoassays.

Course Schedule: September 22-28, 2019

You can attend if…..

- You are Research scholar from Universities, Colleges and government organizations, including R&D laboratories.
- You have enrolled as student for B.Sc/ BPharm/ MSc/ M.B.B.S/ M.S./ M.D./ MPharm/ MTech/ PharmD/ PhD)
- You are Faculty from reputed academic institutions and technical institutions.

Fees:*

Participants from abroad: US $125
Industry / Research Organizations: Rs. 3000
Academic Institutions:
Faculty: Rs. 2000
Research Scholars: Rs. 1500
UG/PG Students: Rs 1000

*The above fee include all instructional materials, computer use for tutorials and assignments, laboratory equipment usage charges, 24 hr free internet facility. Participants will be provided with accommodation on payment basis.

Faculty

Dr. Anshu Agrawal

Health Science-Associate Professor
Division of Basic and Clinical Immunology, Department of Medicine, University of California, Irvine, CA

Dr. Anshu Agrawal is Health Science Associate Professor at Division of Basic and Clinical Immunology, Department of Medicine, University of California, Irvine, CA. Dr. Anshu has been actively supported by NIH/NIA as well as Small Business Innovation Research (SBIR). She is also the recipient of the DOM Chair Research Awards. She has completed several research projects supported by UCI MIND (Institute for Memory Impairment and Neurological Disorders), NIH/SBIR, Donbang Acupuncture, Korea, etc. Dr. Anshu is a reviewer for journals such as PNAS, Science Translational Medicine, Journal of Immunology, Journal of Clinical Immunology , Vaccine, Drug Development and Therapy, Pharmaceutical Research, Aging Cell, Cell Reports, Gerontology, AGE, Autoimmunity, etc. She has also been a referee for grant proposal VMD study section, Nathan shock center for aging, Medical Research Council UK, Alexander Vontlumboldt Fellowship Grants, Poland, French National Research Aging (ANR) etc.

Her study ranges from dendritic cells, Aging, Autoimmunity to Immunotherapy. She is having the needed background in Immunology, Virology and drug development and Pharmaceuticals.

Course Coordinator

Dr. Prasad A. Wadegaonkar
Professor & Head
Sant Gadge Baba Amravati University
Amravati 444 602 (Maharashtra)
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Registration Form

Name (in block letters):
……

Qualification: ……

Designation: UG/PG Student/Research Scholar/Faculty/Scientist

Organization: ……

Mailing address:
……..

……..

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Mobile : ……

Fax : ……

Email : ……

Payment: Rs: ……

(i) Demand draft drawn in favour of 'The Finance and Accounts Officer, SGBAU Amravati,
If payment is by DD, please furnish the following details:
DD No.:_____ Dt: _____

(ii) Cash Payment on Finance Section, Sant Gadge Baba Amravati University, Amravati

Receipt No. :_____ Dt: _____

Guest House/Hostel stay needed (will be arranged as per availability on a payment basis): Yes / No

Signature of Applicant : …….

Date: …….

All completed registration forms may kindly be mailed to:

Dr. Prasad A. Wadegaonkar
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Department of Biotechnology
Coordinator (GIAN Program - SGBAU)
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