



SRI VENKATESWARA COLLEGE OF ENGINEERING

(An Autonomous Institution – Affiliated to Anna University, Chennai)
Sriperumbudur Tk – 602 117, Tamil Nadu



Department of Biotechnology
&
BioAcademy



Solicit your esteemed presence for a Guest Lecture

on

“Induction of Antigen-Specific Immunosuppression or Tolerance via Immunization”

by



Dr. Aoshuang Chen
Associate Professor
Biomedical Sciences
University of Illinois College of
Medicine Rockford, United States

ALL ARE CORDIALLY INVITED

Venue : **Google Meet** (<https://meet.google.com/uic-phww-zdt>)

Date : **23rd September 2022 (Friday)**

Time : **08:00 to 09:00 PM (IST)**

Conveners

Prof. M. Sivanandham
Secretary, SVEHT
Prof. E. Nakkeeran
HOD-BIO

Organizing Secretary

Dr. K. Ganesh Prasath
AP-BIO

Coordinator

Mr. J. G. Aswin Jeno
AP-BIO

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Report of the Guest Lecture on "Induction of Antigen-Specific Immunosuppression or Tolerance via Immunization"

23rd September 2022

A guest lecture on "**Induction of Antigen-Specific Immunosuppression or Tolerance via Immunization**" was organized by Department of Biotechnology, Sri Venkateswara College of Engineering, Sriperumbudur on 23rd September 2022 (08.00 to 09.00 PM IST) through Virtual mode. The guest lecture was conducted by Mr. J. G. Aswin Jenio, Assistant Professor, Biotechnology with, Dr. K. Ganesh Prasath, Assistant Professor, Department of Biotechnology as Organizing Secretary and Prof. M. Sivanandham, Secretary, SVEHT and Prof. E. Nakkeeran, Head of the Department, Biotechnology as Convener.

The session was started with a welcome address by Ms. B. Harini and Mr. S. Sakthivel, III Year, B. Tech Biotechnology, was introduced the guest speaker **Dr. Aoshuang Chen, Associate Professor, Biomedical Sciences, University of Illinois College of Medicine Rockford, United States**. The main objective of the Guest Lecture was to provide the impact of autoimmune diseases, antigenic immunization and tolerogenic adjuvant.

Participants including UG, PG students and the faculty members from SVCE attended the event with a total of 88. Dr. Aoshuang Chen discussed the epidemiology, risk factors associated with the atherosclerosis and the protective anti-atherosclerotic role of IgM antibody against HMGB1. The discussion was also included the impact of anti-HMGB1 IgM as a injectable drug to target other proinflammatory cytokines. The lecture was followed by an interactive session and the guest speaker addressed the questions raised by the participants.

The session was concluded with a vote of thanks delivered by Mr. K. Madhumitha. The Guest speaker, Dr. Aoshuang Chen thanked the organizers and the management of SVCE for organizing this event.



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Snapshots of the Guest Lecture on "Induction of Antigen-Specific Immunosuppression or Tolerance via Immunization"

23rd September 2022

Induction of Antigen-specific Immunosuppression or Tolerance via Immunization

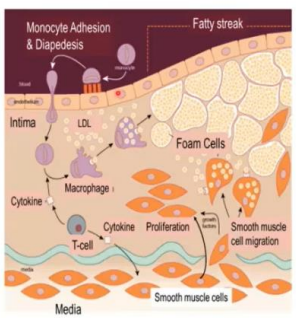
Guoxing Zheng, Ph.D.
Aoshuang Chen, Ph.D.


Department of Biomedical Sciences
College of Medicine-Rockford
University of Illinois



The fatty streaks (the 1st sign visible)

The cartoon below summarizes the steps by which a fatty streak evolves. Injury to the endothelium triggers monocyte adhesion, a loosening of endothelial cell junctions, and migration of monocytes beneath the endothelium where they differentiate into macrophages. The more permeable endothelium also permits LDL to enter the intima of the artery, and macrophages begin engulfing the LDL by phagocytosis. After macrophages become laden with lipid from ingesting LDL, they are referred to as "foam cells," and collections of these create fatty streaks.





Prepared by

Dr. K. Ganesh Prasath, AP/BIO

Approved by

Prof. E. Nakkeeran, HOD, BIO

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