

A Brief Report on Academic Expert-Adjunct faculty Interaction series: Lecture I

(Enhancing professional skills)

Date: 20.12.2021

Name of the presenter:

Dr. Manas Mandal

Associate Professor of Pharmaceutical Sciences

Roseman University of Health Sciences College of Pharmacy

Henderson, Nevada

United States of America

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Title of the presentation:

Immunotherapeutics for Autoimmune disorders



Program Organized by:

Dept. of Pharmacy Practice

JSS College of Pharmacy, Ooty

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Pharmacy Education Unit

JSS College of Pharmacy, Ooty

Adjunct faculty bring value to academic institutions by sharing their expertise with students. Students gain additional knowledge along with experiential learning by participating in projects and activities connecting the curriculum to practice. With an objective of enhancing professional skills Department of Pharmacy Practice in association with Pharmacy Education Unit, JSS College of Pharmacy, Ooty has planned to conduct Academic Expert-Adjunct faculty Interaction series

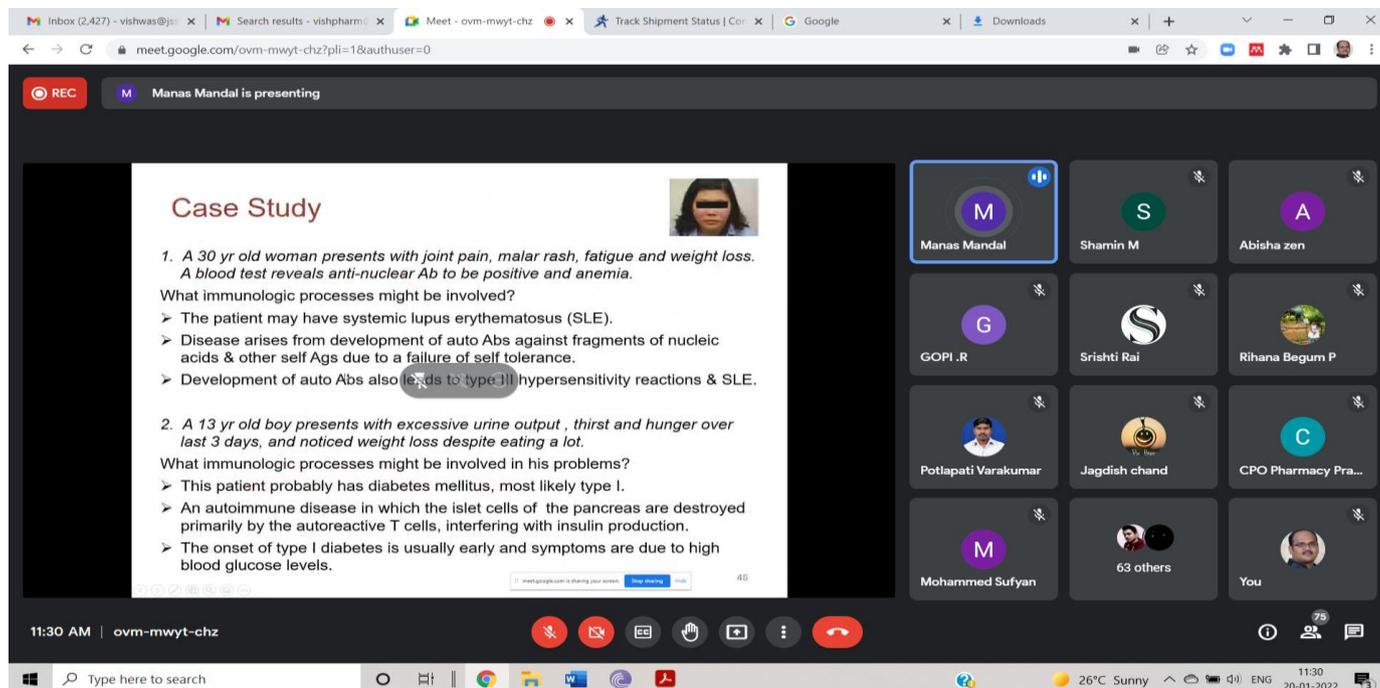
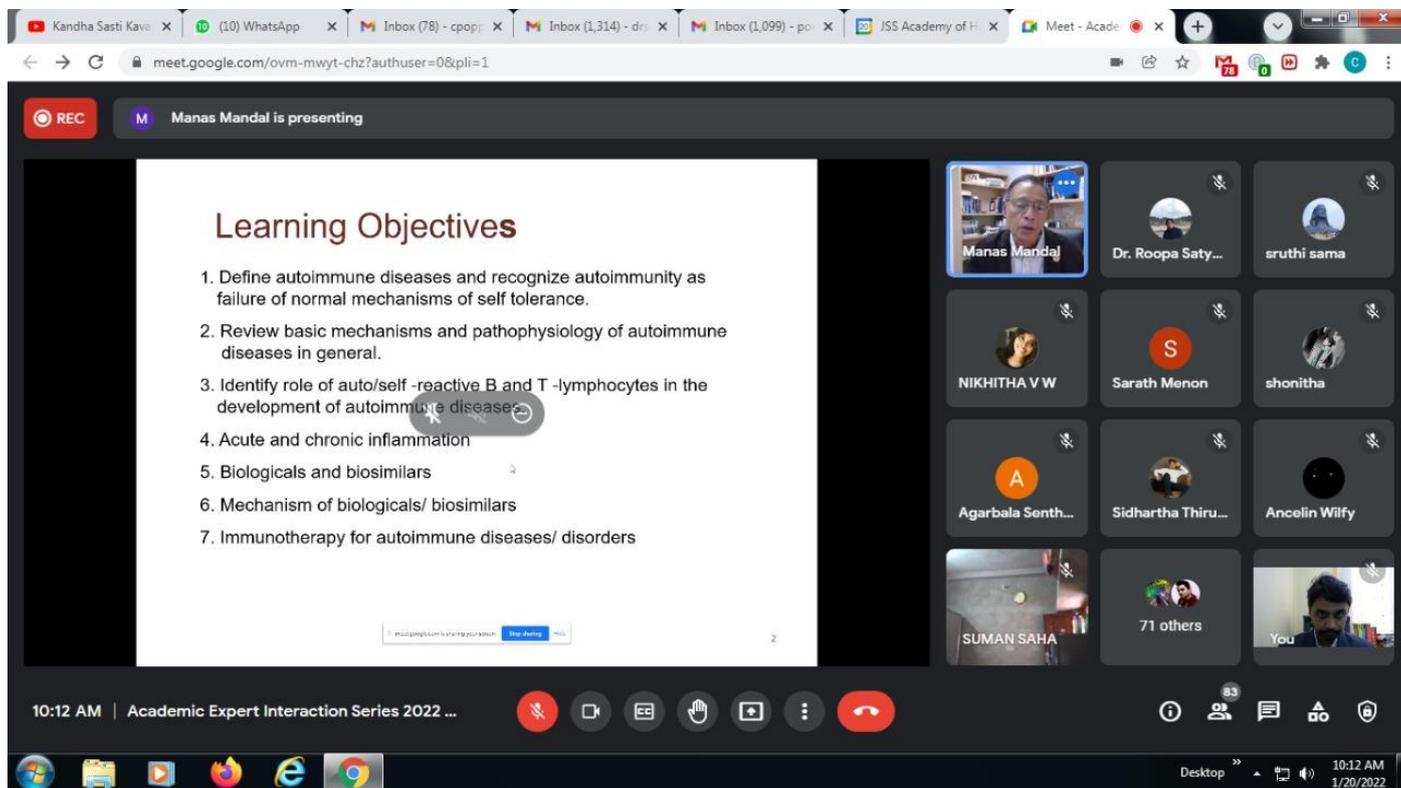
Dr Manas Mandal is presently working as Associate Professor of Pharmaceutical sciences, Roseman University of Health Sciences College of Pharmacy, Henderson, Nevada, US. He is identified as an Adjunct faculty for JSS Academy of Higher Education & Research, Mysuru. Dr Mandal is also identified Fulbright Specialist (2019-2022). His areas of expertise include Immunology teaching and research, salivary biomarkers, vaccine development & educational research. Presently Dr Mandal is working with multiple collaborators from Roseman University, Centre for Molecular Medicine and Infectious Diseases-College of Veterinary Medicine Virginia Tech, University of Michigan, Chicago Medical School, Calcutta School of Tropical Medicine & Indian Institute of Chemical Biology, India. Dr Mandal is working as a Primary instructor, block coordinator, and assessment leader for Haematology & Immunology block for Pharm D Students, Instructor for Clinical Immunology for Pharmacy students at Roseman University, Henderson campus. He acts as Instructor for College of Dental Medicine at Henderson and Utah campus. Dr Mandal is a professional member in organizations like AACP, AAPS, NABP, ACPE & AAI. He also worked as a Reviewer for many reputed journals in field of Immunology.

Dr Mandal discussed about the commonly observed autoimmune diseases and the basic mechanisms. He explained about the basic inflammatory response triggered by injury, infection, stress and nutrition. Dr Mandal further explained about the various mechanisms for development of autoimmune disorders namely, breakdown of tolerance, generation of autoantibodies, generation of auto reactive T cells, complement activation, inflammation and further hypersensitivity followed by chronic tissue damage. He even explained about the various autoimmune diseases which affect humans like Rheumatoid arthritis, Type-I diabetes, Grave's disease, Myasthenia gravis, Thrombocytopenia and Systemic lupus erythematosus. Dr Mandal further elaborated about detection of autoimmune disorders. He elaborated few diagnostic tests utilized for identification of autoimmune disorders. He further discussed about the various drug options available for treating the same. Dr Mandal discussed about the treatment modalities like cytotoxic drugs, DMARD's, Corticosteroids, NSAIDs and Biologicals.

Dr Mandal also explained in-detail about various biologicals used in autoimmune disorders. He spoke about the various technologies used for production of these biologicals. He further explained about how cytokine balance is brought by biological agents. He explained in detail about the mechanisms of action for monoclonal antibodies like Rituximab, Alemtuzumab, Belimumab, Adalimumab, Infliximab and Tocilizumab. He spoke about the common precautions to be

taken while administering these drugs and how to dose the biological agents for few disease conditions. Finally he discussed two case studies related to autoimmune disorders and its management.

There was a question-and-answer session where few staff and students clarified their doubts related to biological agents. Dr S Ponnusankar delivered the welcome address and the importance of the academic expert interaction series, and even delivered the vote of thanks. A total of 85 participants were present in the session.



Few Screen shots of the Academic Expert-Adjunct faculty Interaction Series-Lecture I

Report submitted by: Mr HN Vishwas, Lecturer, Dept. of Pharmacy Practice