LSC 521 - Metabolic Disorders and Inflammatory Diseases

- 1. Metabolic syndrome and obesity
- 2. Basic of Inflammation, regulatory mechanisms to control the initiation progression and resolution of inflammation.
- 3. Inflammasome and its role in pathogenesis
- 4. Inflammation associated pathologies, Biomarkers and Therapeutic targets
- 5. Diabetes Type I & Il diabetes, High glucose induced complications
- 6. Cardiovascular complications Atherosclerosis, endothelial dysfunction cardiomyopathy etc.
- 7. Asthma Allergic airway inflammation
- 8. COPD Chronic obstructive pulmonary disease
- 9. Retinopathy, Age related macular degeneration (AMD)
- 10. Aging Alzheimer's disease
- 11 . Septicemia bacterial infection induced sepsis and related complications
- 12. Auto immune diseases, Inflammatory bowel disease, Rheumatoid arthritis
- 13. Current therapeutic approaches of some of the common pathologies

Suggested Readings

- 1. The Metabolic Syndrome, Christopher D. Byrne, Sarah H. Wild; Blackwell Publishing Ltd.
- 2. Free Radicals in Human Health and Disease. Rani, Vibha, Yadav, Umesh C. S. Yadav; Springer Pvt Ltd.

- 3. Chronic Inflammation: Molecular Pathophysiology, Nutritional and Therapeutic Interventions. Sashwati Roy, Debasis Bagchi, Siba P. Raychaudhuri; CRC Press.
- 4. Camps, Jordi (Ed.), Oxidative Stress and Inflammation in Non communicable Disease Molecular Mechanisms and Perspectives in Therapeutics Advances in Experimental Medicine and Biology Vol. 824, 2014. Springer publications ISBN: 978-319-07320-0 5. Research Papers and review articles.