

About the Book

The book titled “Recent Advances in Communicable and Non-communicable Diseases” is an update of several important communicable and non-communicable diseases. Before the advent of antibiotics and other life saving drugs communicable diseases were rampant. They were either sporadic or caused severe epidemics, thus resulting in heavy death toll eventually led to heavy expenditures on the exchequer. Trade and travel were severely jeopardized. At that time, it was presumed that the use of antibiotic “Magic Bullets” will help to combat life threatening diseases and help to eradicate them from the globe. However, micro-organisms turned out to be smarter than antibiotics. They mutated and developed antibiotic-resistant strains. Fresh infections started emerging and posed serious threats to human life.

While communicable diseases continued to be a potential cause of human maladies, non-communicable diseases like diabetes, mental illness, coronary heart diseases, hypertension and obesity emerged as a potential challenges in the health sector. Majority of these diseases are chronic in nature and patients suffer lifelong. The expenditure on medicines and investigations are extremely expensive particularly for the senior citizens, who happen to suffer from debases frequently.

Contents:-

- *Modulation of intracellular trafficking pathways in host cells by intracellular pathogens*
- *Bacterial pathogenesis and cancer: An adversarial relationship with opportunity for drug development*
- *HABP1/P³²/GCI/qR gene as cytoadherent molecule that involves in bacterial invasion*
- *Helicobacter pylori: an overview of the infection, pathogenesis and molecular cell biology of DNA replication and cell division*
- *Tuberculosis: Current situation, challenges and inter*
- *Molecular diagnosis of tuberculosis, leishmaniasis and toxoplasmosis: The three intracellular pathogens*
- *Malaria in India: Situation analysis and the way forward*
- *Drugs and drug targets against malaria parasite*
- *Recent advances in malaria drug and development*
- *Immune evasion by Leishmania parasite: A tale of subversion and exploitation*
- *Different approaches in the quest to develop a successful vaccine against leishmaniasis*
- *Cell death profits of a protozoon parasite: The Leishmania spp.*
- *Leprosy: An overview*
- *Preventing cholera*
- *Recent advances in anthrax pathophysiology, prophylaxis treatment*
- *Genetic diversity and pathogenesis of human immunodeficiency virus with special emphasis on strains circulating in India*
- *Radiation technology for preventing food-borne infections and intoxications of microbial origin*
- *Genome organization and gene regulation in Entamoeba histolytica*
- *Amoebiasis and biology of Entamoeba histolytica*
- *Candidiasis: A yeast infection caused by Candida albicans*
- *Animal transgenesis in the era of Omics*
- *Diabetes in India --- Existing trends, risk factors and emerging concerns*
- *Lipid induced adipose tissue defects in associated with insulin resistance and type 2 diabetes*
- *Genomic determinants of bilirubin level and hyperbilirubinemia pathologies*