Aims & Scope:
This thematic issue will provide a platform to share comprehensive information on advances and recent trends in various prophylactic and therapeutic regimens to effectively combat various diseases and other health problems, both infectious and non-infectious posing challenge to the humans and their companion animals (livestock & poultry). It will focus mainly on the novel, emerging and valuable alternate / complementary frontier therapeutic options especially in the era of emerging and rising drug resistance in microbial pathogens and increasing health disorders and conditions of high concerns due to changing life style and other various predisposing factors. Advances and interdisciplinary approaches of biotechnology, molecular biology, genetics, cellular immunology, immunomics, proteomics, pharmacology, bioinformatics, nanotechnology and others for designing and developing newer and effective therapeutic modules would be given priority. These will include phages, enzybiotics, apoptins, cytokines, monoclonal antibodies, egg yolk antibodies, TLR, stem cells, si-RNA, nanomedicines, nutritional immunomodulation, probiotics, antioxidants, phytonutrients, and herbal medicines, which could play promising role in curbing evolving pathogenic threats by their potent antimicrobial potential, treating non-infectious diseases, metabolic disorders, cancers as well as various general health problems. Other potential candidates being explored for targeting development of valuable medicines, drugs, pharmaceuticals, immunotherapeutics, antitoxins, tissue growth factors, gene therapy, regenerative medicines, therapeutic biologics, modern vaccines and vaccines based therapies will also be considered. Trends and advances in pharmacogenomics aided drug development and therapeutics, pharmacokinetics, pharmacodynamics and metabolism of effective/newer drugs and medicines, upcoming drug designing and novel drug delivery methods will also be given due attention. The compilation will be useful for medical and veterinary professionals, clinicians, researchers, students/scholars, public health experts, animal producers, and pharmaceutical industry in designing and adapting effective and safer therapeutics from clinics to the laboratory for countering important diseases. This thematic issue will accept submissions of comprehensive review papers on above mentioned topics / theme with their basics, modes of action, medicinal values, beneficial health applications, modern trends and advances, perspectives, which could lead to designing and development of effective therapeutics, drugs/medicines, nutraceuticals and pharmaceuticals in the area of biomedicine with an aim to safeguard health of both humans and animals in a better way.

Keywords:
Advanced Therapeutics, alternate / complementary therapeutics, immunotherapeutics, drugs, medicines, drug delivery, vaccines, biomedical perspectives, pharmaceuticals, nutraceuticals, disease, health, animals, humans

Subtopics:
- Emerging, alternative, complementary & novel therapeutics for infectious and non-infectious diseases.
- Nutritional immunomodulation and biotherapy with probiotics, antioxidants, phytonutrients and herbs.
- Novel drugs and medicines to counter infectious pathogens and non-infectious diseases.
- Pharmacogenomics aided drug development and therapeutics.
- Pharmacokinetics, pharmacodynamics and metabolism of effective drugs and medicines.
- Advances in drug designing and novel drug delivery methods.
- Modern vaccines and vaccines based therapies.

Schedule:
Manuscript submission deadline: June 2016
Peer Review Due: July 2016
Revision Due: August 2016
Notification of acceptance by the Guest Editor: September 2016
Final manuscripts publication: October 2016