

Tentative Outline

Special Issue for Current Psychopharmacology

TITLE of the thematic issue: Oxidative stress in Neurodegenerative and Psychiatric disorders

Guest Editors:

Dr. Puneet Kumar, Associate Professor of Pharmacology, Department of Pharmaceutical Sciences & Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India 152001.

Email: punnubansal79@gmail.com

Dr. Ashish Baldi, Professor of Pharmaceutics, Department of Pharmaceutical Sciences & Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India 152001.

Email: baldiashish@gmail.com

Aims & Scope:

Neurodegenerative and Psychiatric disorders represent major economic burden more than all cancers and cardiovascular diseases combined with depression alone being the number one cause of disability. A better and clear understanding of pathogenic mechanisms underlying neurodegenerative and psychiatric disorders is required to fulfill the unmet need of new treatments for aforementioned disorders. Free radicals are common outcome of normal aerobic cellular metabolism. Imbalanced defense mechanism of antioxidants, overproduction or incorporation of free radicals from environment to living system leads to serious penalty leading to neuro-degeneration. Toxicity of free radicals contributes to proteins and DNA injury, inflammation, tissue damage and subsequent cellular apoptosis. Antioxidants are now being looked upon as persuasive therapeutic against solemn neuronal loss, as they have capability to combat by neutralizing free radicals. Diet is major source of antioxidants, as well as medicinal herbs are catching attention to be commercial source of antioxidants at present. Furthermore, antioxidants may help protect against mitochondrial dysfunction, neurotransmitters imbalance and another harmful condition that commonly accompanies aging and disease states

Proposed special thematic issue will specifically covers the sources of antioxidants and free radicals and general mechanism involve in antioxidant mediated free radical scavenging. Major emphases have been given on the role of oxidative stress and free radical chemistry with respect to major neurodegenerative disorders.

It will cover interesting literature, review/research on use of antioxidants drugs in neurodegenerative and psychiatric disorders along with conclusive findings, to be contributed by eminent scientists and academicians involved specially in the development of efficacious drug therapy for aforementioned disorders. The content of this issue will be a great source of reference and inspiration to the researchers, industrialists and regulatory professionals involved in the field of Pharmaceutical across the globe and open up new vistas for further exploration and innovative updates in this area.

Keywords:

Antioxidants, Ageing, Free radicals, Neurodegenerative disorders, Psychiatric disorders, Traditional medicines, Drug Therapy.

Subtopics:

The subtopics to be covered within this issue are listed below:

1. Antioxidants and Free Radicals in Health, Life and Disease.
2. Balance between ROS and Antioxidants: Role of traditional medicines.
3. Production and consumption of oxidants: Role in Neurodegenerative and Psychiatric disorders
4. Association of oxidative stress to the genesis of CNS disorders: implications for possible therapeutic interventions.
5. Inter-relation between oxidative stress and age related disorders.
6. Oxidative stress as target for Drug Therapy of CNS disorders.

Schedule:

- ✧ Manuscript submission deadline: **30th Sept. 2017**
- ✧ Peer Review Due: **30th Feb. 2018**
- ✧ Revision Due: **30th June. 2018**
- ✧ Announcement of acceptance by the Guest Editors: **30th Aug. 2018**
- ✧ Final manuscripts due: **September. 2018**

Contacts:

Guest Editors:

Dr. Puneet Kumar

Affiliation: Associate Professor of Pharmacology, Department of Pharmaceutical Sciences & Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India 152001.

Email: punnubansal79@gmail.com

Dr. Puneet Kumar Bansal is an Associate Professor of Pharmacology at Department of Pharmacy, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India. Before joining here, he worked as Associate Professor at ISF College of Pharmacy, Moga and Assistant Professor at BFUHS University Institute of Pharmacy, Faridkot.

Dr. Bansal did his Master of Pharmacy (Pharmacology) in 2005 and Ph.D (Pharmacology) in 2010 from University Institute of Pharmaceutical Sciences, Panjab University, Chandigarh.

His research interests encompass the pharmacological screening of herbal and semisynthetic and synthetic drugs in animal models of various diseases like movement disorders (Huntington's disease, Parkinson's disease and Tardive dyskinesia), Traumatic brain Injury (TBI), epilepsy, Depression and cognitive impairment related disorders. Dr Puneet Kumar has published more than 100 peer reviewed research papers/book chapters. He has more than 10 years of teaching (Bachelor's, Master's and Doctorate students) and research experience.

Dr. Bansal completed major research projects from Govt. funded agencies like AICTE and DST. Dr. Bansal received IBRO fellowship for attending IBRO neuroscience schools in Hong Kong and Malaysia.

Dr. Bansal got international travel awards/grants to attend and presented his research work at various international conferences all over the globe from World Federation of Neurology (WFN), Alzheimer's Association travel grant, IBRO-SFN Travel grant, European Behavioral Pharmacology Society (EBPS) bursary, Melvin Yahr Travel Award, International Travel Support from Department of Science and Technology (DST). Dr. Puneet presented his research work at various international conference held in various countries like USA, Canada, France, Germany, Scotland, Switzerland, Australia, Hong Kong, Malaysia, Taiwan.

Dr. Bansal has been a recipient of various prestigious national and international recognitions as Prestigious Chandra Kanta Dandiya prize for best research publications in Pharmacology. Dr. Puneet

guided more than 40 M. Pharma and 03 Ph. D research students ongoing under his supervision. Bansal is recently selected as Fellow of The Linnean Society of London is the world's oldest active biological society. Dr. Bansal is also a member of various highly recognized professional national and international societies like NASc, APTI, IPS, IAN, IPGA, IBRO, MDS, SFN, EBPS. He is on the editorial board of several national and international journals. Dr. Bansal also delivered various invited talks and resource persons in various national and state level conferences.

Dr. Ashish Baldi

Affiliation: Dean, Faculty of Pharmacy and Head, Department of Pharmaceutical Science & Technology, Maharaja Ranjit Singh Punjab Technical University, Bathinda, Punjab, India 151 001.

Email: baldiashish@gmail.com

Prof. [Dr.] Ashish Baldi, alumnus of Dr. H.S. Gaur University, Sagar and Indian Institute of Technology Delhi, is presently working as Dean, Faculty of Pharmacy and Head, Department of Pharmacy at Maharaja Ranjit Singh Punjab Technical University, Bathinda.

He is an elected fellow of world's oldest and one of the most prestigious scientific society, The Linnean Society of London. He has also featured in "Who's Who of the World" as one of the most outstanding scientist across the world in 2011 edition and Best 200 scientific intellectuals of the world by Cambridge Society, UK. He had also honored with "Shiksha Bharati" Award in 2010 for his excellent contribution in the field of education. With 3 patents, 3 technology transfers, 6 books, 2 special issues in 'Pharmaceutical Nanotechnology' and 'Applied Clinical Research, Clinical Trials and Regulatory Affairs [published by Bentham Science Publishers] along with over 80 national and international publications, more than 150 papers at conferences/seminars in India and abroad, and several best paper awards to his credit, he is an active researcher in various facets of pharmaceutical science and biotechnology. He had also completed research projects for various government agencies like AICTE, DRDO, DST, PSCST and many pharmaceutical industries.

His area of interest ranges from novel drug delivery systems, drug regulatory affairs, plant cell technology, probiotics, analytical method development and pharmacological study of herbal formulations to microbial biotechnology. He is supervising 7 doctoral students and guided more than 30 M. Pharm. students, 8 undergraduate students in various fields of pharmaceutical and bio-technology. Presently, he is also Fellow/Life member of more than 10 scientific societies worldwide and advisory/editorial board member in more than 20 journals of high impact.