

the new team

Editor in Chief



Akshay Anand, Ph.D

Akshay Anand graduated from Post Graduate Institute of Medical Education and Research (PGIMER). After obtaining his post doctoral training at Department of Immuno-pathology in the same Institute he joined the University of Kentucky as Scientist II. After serving their for two years, he returned to join faculty at Department of Neurology and Institute Stem Cell facility, PGIMER. He runs the Neuroscience research cum diagnostic facility and is the co founder of Leukemia Research Foundation. Dr Anand is a research improvement specialist who is interested in understanding the processes of retinal degeneration and regeneration using invitro, invivo and biotherapeutic approaches. His other research interests range from analyzing the role of genetic and other risk factors that modify Stroke, PD and AMD to screening of novel drugs in memory enhancement. He has also been involved in the discovery of animal model of AMD published in *Nature Medicine*. Dr Anand is a recipient of Young Scientist Award from DAE (2005), Retina Research Foundation / Joseph M. and Eula C. Lawrence Award (2003), served as Judge at ISEF, USA (2002-3), obtained over a dozen International travel grants, and serves on Editorial board of Neuroepidemiology. He is also Reviews editor of Frontiers in Behavioral Neurosciences. Dr Anand is the guest faculty in the Human genomics program of Panjab University and advisor to the local chapter of Indian Muscular Dystrophy Association. He was recently designated Expert on Mission by ICGEB, Trieste for Intellectual property and is resource faculty for various national and International forums

Co-editors



Anand Swaroop, Ph.D

Executive Editor

Anand Swaroop is currently the Chief of the Neurobiology-Neurodegeneration Repair Laboratory (N-NRL) at the National Eye Institute, National Institutes of Health in Bethesda, MD, USA. He graduated from Indian Institute of Science, Bangalore, and did post-doctoral studies at Yale University. He joined University of Michigan Medical School faculty in 1990 as Assistant Professor of Ophthalmology & Visual Sciences and of Human Genetics. Before joining NIH, Dr. Swaroop held Harold F. Falls Professorship at the University of Michigan. In September 2007, Dr. Swaroop joined the National Eye Institute as Senior Investigator to establish a new program for developing knowledge-based treatment paradigms for retinal diseases. Using genetic, molecular and biochemical approaches, the Swaroop lab focuses on the development and function of the neural retina, photoreceptor differentiation and mechanism of diseases such as retinal and macular degeneration due to hereditary and environmental factors. In recognition of his leadership, Dr. Swaroop has been the recipient of numerous honors including the Board of Director's award from The Foundation Fighting Blindness for outstanding research in 2006 and the Harrington Senior Scientific Award from Research to Prevent Blindness. In July 2007, he received the highest honor that the University of Michigan Medical School bestows on a faculty, namely the Distinguished Faculty Lectureship Award for his extraordinary research accomplishments and service to the scientific community. He has been a reviewer for NIH study sections, and numerous foundations including The Wellcome Trust grants, UK, The Foundation for Fighting Blindness, USA and Medical Research Council of Canada. He has been editorial board member of IOVS and Molecular Vision and reviewer of manuscripts for numerous journals in Genetics, Neuroscience and Vision research. Dr. Swaroop has several pathbreaking publications in journals such as *Nature*, *Nature Genetics*, *AJHG*, *JBC*, *PNAS*, etc.



Denis English, Ph.D.

Senior Editor

Denis English received his doctorate in Microbiology from the University of Illinois School of Medicine. As a graduate student, Dr. English developed the leukocyte scan, a process--now replaced by MRI-- once widely used to localize areas of infection and inflammation. He recently co-authored a study that demonstrates the localization by MRI of stem cells infused for therapy. He is currently Professor of Neurosurgery at the University of South Florida. In addition, he directs the Florida Foundation for Developmental Research, a non profit organization that was created to address the reasons that stem cell therapy has not achieved the therapeutic goals anticipated long ago. In accord, Dr. English founded the peer reviewed journal *Stem Cells and Development* to address these issues as it questioned dogma that developed too rapidly in a fast moving field. Dr. English serves as a Senior Editor of *Acta Medica* and *Microvascular Research*. He has served as Editor in Chief of *Journal of Hematotherapy and Stem Cell Research* as well as *Stem Cells and Development* and reviews papers for several journals on a regular basis. He presently serves on several NIH (USA) Grant Review Committees including those recently formed in response to President Obama's infusion of funds for research to facilitate the development of methodology to regenerate tissues and organs. His own research focuses on structural development, differentiation and the divergent role of matrix signaling in the regulation of cell functions driven by effectors of Rho family GTPases. He was first to identify sphingosine 1-phosphate as the key link between wound healing and neo-vascularization in a short study that virtually created a new field of science. As a noted science watcher and historian, Dr. English created the discussion course *A Whiter Shade of Pale* as a unique forum to assess how scientific misconduct has uniquely impacted upon research developments, often with paradoxical advances. He was recently selected by the NIH to evaluate procedures used to address specific aspects of scientific misconduct at major Universities funded by the NIH and how these procedures should be altered. He established the first bone marrow transplant center in Western Canada at the University of Alberta's Cross Cancer Center in 1972, as he developed many of the techniques currently used for stem cell processing, including the only approved method for processing, collecting and storing stem cells from any hematopoietic tissue with quantitative recovery, which he and Dr Hal E Broxmeyer later first employed for use with umbilical cord blood stem cells. Working with the late biochemist, Dr. Joe M. McCord, who discovered superoxide dismutase, as well

as Dr. Kenneth Brigham at Vanderbilt, Dr. English established the role of neutrophil-derived free radicals in inflammation and authored many of the first papers addressing processes that regulate free radical release from stimulated neutrophils. Denis, as he prefers to be addressed, is widely recognized as a person who quickly addresses fundamental issues that escape those who assume greater tasks. While others assess therapeutic uses of stem cells, he asks if stem cells exist and if so, how are they defined. He questions dogma others hold sacrosanct and in this area is often vindicated. "Where's the proof ?", he asked in a widely disseminated editorial published as others touted the miracles of stem cell therapy. He challenged the universally accepted policy which prohibits public disclosure of results prior to peer review simply by asking why this policy exists, and he still awaits an answer. He has challenged the very foundations of the process of peer review as flawed, stating that while necessary, the process often is quite effective in perpetuating defective dogma as it precludes publication of alternative results, maintains a status quo that needs to change and may result in theft of intellectual property. His goal is to alter current modes of scientific communication while maintaining key aspects developed during the course of discovery by man.



S. Prabhakar, M.D., D.M., FIAN

Senior Editor

S Prabhakar graduated from MDU, Rohtak and completed his DM from Post Graduate Institute of Medical Education and Research, Chandigarh. He is currently the Prof and Head of Department of Neurology and Professor in Charge of Research and Education Cell, PGIMER, Chandigarh. He has been Director of Studies, Vice President and President, Indian Medical Association, Chandigarh State Branch. He is the immediate Past President of the Indian Academy of Neurology and has earlier remained Vice-President, Treasurer for 9 years and Honorary Secretary for 3 years to serve Indian Academy of Neurology. Prof Prabhakar has been expert on the selection committee of Himachal Pradesh Public Services Commission, Maharishi Dayanand University Rohtak (Haryana) Dayanand Medical College, Ludhiana, A.I.I.M.S., New Delhi, and PGI, Chandigarh. He has published more than 200 papers in journals of national and international repute and has contributed 28 chapters in various text books. Dr. Prabhakar was elected as Chief Editor, Neurology India, the Official Journal of Neurological Society of India for a period of 6 years from 1997-2002. During his first half of tenure, 'Neurology India' has been indexed in Index Medicus and MEDLINE. He is also Co-editor

of Text Book of Neurology, by Indian authors, which has been published in January 2001. He has edited book entitled "Taenia Solium Cysticercosis from Basic to Clinical Science". He is Editor of the Annual Report of the Postgraduate Institute of Medical Education and Research, Chandigarh and also editor of 'Reviews in Neurology', a CME book of Indian Academy of Neurology for a period of 3 years from 2006 - 2008. He has recently been elected as President of the Neurological Society of India.

**Colin L. Masters, M.D***Senior Editor*

Colin Masters, graduated from University of Western Australia and is currently the Laureate Professor, University of Melbourne and Executive Director of the Mental Health Research Institute of Victoria. He is a consultant with Melbourne Health and Neurosciences Australia, Chair of the National Health Committee and Deputy Chair of the Transmissible Spongiform Encephalopathies Advisory Committee of the National Health and Medical Research Council, and co-director of the Australian National Creutzfeldt-Jakob Disease Case Registry. His main research interests concern Alzheimer disease and related neurodegenerative disorders including the prion diseases (Creutzfeldt-Jakob disease). His achievements have been recognised by the receipt of many international awards. He is a prolific author covering multidisciplinary aspects of the neurodegenerative disorders. Prof Masters has been on more than two dozen International journals including JAD, Brain Research, Experimental Neurology and Archives of Neurology. Masters career has come full circle, from the pathological study of human brain disease to clinical trials, and from discovery and characterisation of the A β aggregation in AD, to the development of a coherent theory on the mechanisms of A β amyloid production and its role in causation of neurodegeneration. This theory has become the generally accepted paradigm for investigating Alzheimer disease. The single, most characteristic, feature of Masters research has been the way in which he has approached gene and protein structure and function for a variety of diseases caused by proteins that aggregate in the adult human brain. He has used the resulting data to generate a rich variety of discoveries that have had a wide impact in understanding normal and abnormal brain function in disease and in ageing. Masters has won many prestigious prizes and awards, including the Potamkin Prize of the American Academy of Neurology (1990), the Max Planck Award of the von Humboldt Foundation (1991), the

Z¨Ich prize of the Max Planck Society (1995), the Faisal International Prize (1997), the Alzheimer Award from the University of Munich (1998), the Lennox K Black Prize from Thomas Jefferson University (2006), the Grand Hamdan International Award (2006), and the Victoria Prize from the Minister for Innovation.

**Youdim Moussa, Ph.D***Senior Editor*

Moussa Youdim graduated from McGill University, Montreal and has been the founding chairman of Pharmacology from its inception from 1977 to 1994. He was the Finkelstein Professor of Life Sciences and Professor of Pharmacology at the Technion- Rappaport Family Faculty of Medicine, Israel. He is Professor Emeritus and the Director of the Eve Topf and National Parkinson Foundation (USA) Centers of Excellence for Neurodegenerative Diseases Research and Teaching at Technion. He holds the position of Honorary Professor and Distinguished Chair Professor at Hong Kong and PolyTechnic Universities in Hong Kong, Yonsei University in Seoul, South Korea, Qingdao University and Shanghai University in China. He is internationally renowned for his research in Parkinsons disease (PD) Alzheimers disease (AD), Huntington disease (HD) and ALS and drug development for these disorders and for establishing the importance of monoamine oxidase and brain iron metabolism for brain function. His research at Oxford University led to the discovery of the monoamine oxidase B inhibitor, l-deprenyl (selegiline) as an anti Parkinson drug in 1975 and at Technion the development of the second generation of monoamine oxidase B inhibitor anti-Parkinson drug, Rasagiline (Azilect). He developed the multifunctional neuroprotective and neurorestorative anti-Alzheimer drug, currently designated Ladostigil (TV 3326), which is now in Phase IIa clinical studies and M30 series. He and his colleagues have now developed the S-isomer of rasagiline, Cardi Amit (TVP-1022) as a cytoprotective drug for cardiovascular diseases which is entering Phase I studies. He has published more than 800 scientific articles and edited 45 books and has been on the Editorial Board of 43 International scientific journals. He has received numerous major prizes, awards and honours from Israel, U.S., England, Germany, Iran, Denmark, Holland and Switzerland, including two Honorary Doctorate of Philosophy, Honorary Causa, from universities of Semmelweis University (Hungary) and Pisa (Italy). From 1991 through 1999, he was a Fogarty International Scholar-in-Residence at the Fogarty International Center for Advanced Study in the Human Health Sciences program of the National Institute of Health in Bethesda, USA. He is the Scientific founder of Varinel Inc and Varinel Ltd Registered in USA.



Preeti Joshi, Ph.D

Senior Editor

Preeti Joshi graduated from Kumaun University, Nanital and is Head of Biophysics at National Institute of Mental Health and Neurosciences, Bangalore. Dr Joshi is interested in understanding the intra and intercellular communication in the nervous system and its modification in disease.



Ante L. Padjen, M.D, D.Sc

Senior Editor

Ante Padjen was educated in Croatia (University of Zagreb, Croatia; 1966, MD; 1970, DSc), University of Edinburgh (Graduate Studies), NIMH (1971 – 1975, Washington, DC). He has served as Professor at McGill University, Department of Pharmacology & Therapeutics from 1976. His primary research interests include neuroscience, information technology and knowledge translation in biomedicine with a particular interest in developing areas. He is active in national, international professional and public organizations and is one of the active leaders in IBRO.



Yogendra Kumar Gupta, M.D

Senior Editor

Y K Gupta received his MD from King George Medical College, Lucknow. He is the Professor and Head of Department of Pharmacology, All India Institute of Medical Sciences, and his area of interest is Neuropharmacology. He has earlier also served as the Director of Industrial Toxicology Research Centre, Lucknow and served as editor of the Journal, Pharmacology and Indian Journal of Physiology and Pharmacology. Dr. Gupta was President of the Indian Pharmacological Society (2005-2006). Dr Gupta serves on selection committee of National Institute of Education and Research and Public Service Commission, Himachal Pradesh, RRL, Jammu and many other selection committees in the country. He has more than 150 publications and is recipient of INSA young scientist medal, Shakuntala Amirchand Prize of ICMR, Chadrakanta Dandiya Prize, G. Achari Oration Award of IPS, Major General S. L. Bhatia Oration Award, Association of Physiologist and

Pharmacologist of India (APPI), AEB honours award by the Academy of Environmental Biology, C. L. Malhotra Prize of APPI etc He is has been the member of Project Advisory Committee/ Project Review Committee/ Research Council and Scientific Advisory Committee of CDRI, ITRC, CFTRI, and CCMB. He is Chairman scientific Advisory Committee of NIOH. He is also chairman of National GLP Technical Committee of DST. Member Apex committee CSIR-Ayush coordinated partnership Golden triangle program. He has been the Governing body member of Indira Gandhi Postgraduate Institute of Medical Education and Research, Patna, Executive member of Navodaya Vidyalaya Samiti, and Governing body of CCRAS and CCRUM.



Pankaj Seth, Ph.D

Associate Editor

Pankaj Seth graduated from Central Drug Research Centre (CDRI) and is a senior scientist at National Brain Research Centre (NBRC) heading the NeuroAIDS laboratory. He obtained his post doctoral training from Uniformed Services University, Bethesda where he worked in the area of Neurovirology and Ischemia reperfusion injury. Pankaj also worked at National Institute of Neurological Disorders and Stroke (NINDS) with Dr. Eugene Major. He and his team has recently demonstrated that HIV-1 transactivating protein Tat from clade B, prevalent in America and Europe, is far more neurotoxic to human neurons than HIV-1 clade C that infects almost 50% of the world's HIV-1/AIDS population. He has also established human fetal brain derived neural stem cell culture system at NBRC, which is a unique resource in the country. Pankaj is a recipient of several awards at various levels of his career including a Sustained Superior Performance Award by Henry M. Jackson Foundation for Advancement of Military Medicine, USA, Special Act and Service Award by NINDS/NIH in 2003 as well as Director's NIH Merit Award by National Institutes of Health, Bethesda, USA. He has been invited speaker at several National and International meetings and has more than 35 publications. He is advisor, IQRA Biotechnology Sciences and editorial board member of *Journal of Neurovirology*.



Subramaniam Ganesh, Ph.D

Associate Editor

Subramaniam Ganesh obtained his graduation from Banaras Hindu University and is currently working as Associate Professor at the Department of Biological Sciences and Bioengineering,

IIT, Kanpur. His major research focus is to identify and characterize molecular players in neurodegenerative pathways by conducting genetic screens in affected families and utilizing cellular/animal models for testing and validating the hypothesis. He is recipient of the National Bioscience Award for career development, Scopus young scientists award in biological sciences, and was also awarded the Alexander von Humboldt Fellowship.



Kanchan K Mukherjee, M.Ch
Associate Editor

Kanchan graduated from Armed Forces Medical College, Pune and is currently working as Associate Professor in the Department of Neurosurgery at PGIMER, Chandigarh.

He received presidents gold medal for best outgoing student and received his post graduation in surgery from PGIMER Chandigarh and M.Ch neurosurgery from SGPGIMS Lucknow. He is an excellent surgeon who has completed more than 1000 surgeries including 300 aneurysms and 30 CP angle/pteroclival lesions. He possesses versatile scientific temperament with several publications in International journals and is resource faculty for several national and international forums that include interdisciplinary deliberations.



Vaijayanti P. Kale, Ph.D
Associate Editor

Vaijayanti Kale graduated from the University of Mumbai through Tata Cancer Research Center (now ACTREC), Parel, Mumbai. She is currently working as a Senior Scientist at NCCS, Pune and is running a stem cell research laboratory.

She is interested in the regulation of stem cell fate through the microenvironment-mediated signaling processes. Dr. Kale has been appointed as an Associate Editor for the international journal Stem Cell and Development and is also appointed as SAC member for PGIMER for stem cell research. She has filed patent applications for the creation of artificial bone marrow environment (ABME) and uses thereof and also for the preservation strategies for stem cells using mannose-binding lectins of plant origin. Dr. Kale has several publications in the field of stem cells.



Ursula M. Gehling, M.D
Associate Editor

Ursula M. Gehling received her MD degree in 1990 from the Philipps-University Marburg, Germany, where she studied medicine and also started her residency training as a Hematologist/Oncologist. She is currently a Senior

Lecturer in Internal Medicine. She spent a two-year research fellowship at the University of Colorado Health Sciences Center, Denver, USA in 1994-1996 studying human stem cells. Since this time her research focuses on the biology of adult human CD133-positive stem and progenitor cells. She worked for more than 10 years at the University Hospital Hamburg-Eppendorf. In 2004, she became Head of the Research Laboratory of the Department of Hepatobiliary Surgery and Visceral Transplantation. In 2009, she started a new position at the Paul-Ehrlich-Institute in Langen. Here, her work mainly deals with the safety of clinical trials therapies involving tissues, cells, and advanced therapy medicinal products. Dr. Gehling is Associate Editor of Stem Cell and Development and member of the Editorial Board of 3 international journals and has a patent on blood products from mesenchymal stem cells.



Shashi Bala Singh, Ph.D
Associate Editor

Dr Shashi Bala Singh is the only lady Director in Defence Research and Development Organisation (DRDO) in the country and is presently heading the Defence Institute of High Altitude Research (DIHAR), Leh-Ladakh, India

since September 2007. She is interested in addressing hypophagia and cognitive function impairment at high altitude. Her work has led to the elucidation of some basic mechanisms involved in hypophagia at high altitude in terms of taste receptor sensitivity changes. She is the fellow of Indian Association of Biomedical Scientist (FIABMS) and Indian Academy of Neurosciences (IAN) and has over 60 publications apart from receiving several international and national journals. Shashi Bala Singh is the recipient of Dr. J.N. Maitra Memorial Oration award in 2003, Bharat Nirman Talented Ladies award in 1995, DRDO Laboratory Scientist of the year award in 2006, Surg Rear Admiral M S Malhotra Prize in 2007 and Prof. Baldev Singh Oration award in 2007. She has also received prestigious DRDO Technology Spin Off Award - 2007 from Prime Minister of India in May 2008.

Editorial Advisory Members



Zhen-Ge Luo, Ph.D

Zhen-Ge Luo graduated from Chinese Academy of Military Medical Sciences (CAMMS), Beijing, China and is a Principal Investigator of the laboratory of synaptic signaling, Institute of Neuroscience, Chinese Academy of Sciences. He earlier served as Postdoctoral fellow, Department of

Neurobiology, University of Alabama at Birmingham. His major research interests are the molecular mechanisms underlying neuronal morphogenesis and synapse formation, two basic and consecutive steps in neural development. The long-term goal of these studies is to identify the targets for treatment of neurological disorders including spinal cord injury, neuromuscular disorders, and neurodegenerative diseases. Zhen-Ge has received the prestigious China Youth Science and Technology Prize in 2007. He is consultant for Trends in Biochemical Sciences, PNAS, Neuroscience, Developmental Neurobiology, PLOS One, Biochemical and Biophysical Research Communications etc and has several highly cited publications in Nature Cell Biology, Neuron, PNAS etc.



Nihar Ranjan, Ph.D

Nihar Ranjan Jana obtained his PhD from Visva-Bharati University, Shantiniketan and post doctoral training from RIKEN Brain Science Institute, Japan. He is presently working as Associate Professor in the National Brain Research Centre,

Manesar. He is a fellow of National Academy of Sciences, India and recipient of DBT's National Bioscience Award for Career Development. His research centers on role of ubiquitin proteasome system in neurodegenerative and neurodevelopmental disorders.



R K Vasishtha, MD, FRCP

R K Vasista graduated from Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh and is currently working as Professor of Histopathology. He was trained in UK in Regional Neuropathology Centre of Northern Ireland at Royal Victoria Hospital.

Dr Vasishtha has a total experience of more than 27 years in this field and has more than 120 publications and undertaken important academic responsibilities by serving through several scientific societies. His areas of special interest include Neuropathology and bone pathology. Dr conducts reporting, teaching and research along with other administrative and consultative assignments at PGIMER.



Bimla Nehru, Ph.D

Bimla Nehru graduated from PGIMER, Chandigarh and is currently Professor in the Department of Biophysics at Panjab University. Prof Nehru has wide research experience in the areas of metal induced neurotoxicity, aging, epilepsy, cognitive dysfunction, Parkinson disease and

Huntington's disease. Professor Nehru extensively explored the neuroprotective mechanism of different lead compound/herbal phytochemicals (curcumin, piperine as well as Centrophenoxine). Particularly, her work on aluminum as well as lead toxicity has been well appreciated in the scientific community which is evident from her highly cited publications. Prof Nehru served as the chairperson of biophysics department (1999-2001) and has won numerous awards. Apart from neurons the focus is now being diverted to the glial cells (the secondary brain cells) in the management of oxidative stress condition as brain is more susceptible to it, especially with regards to the ex-expression of heat shock protein, HSP.



Nibedita Lenka, Ph.D

Nibedita Lenka graduated from Osmania University, Hyderabad holding research fellowships under the program of CSIR and is currently serving as a faculty scientist at National Centre for Cell Science (NCCS), Pune. Nibedita obtained her post doctoral training from

University of Pennsylvania, USA and Institute of Neurophysiology, Univ of Koln, Germany. Her research interests include Stem Cells and Development with special focus on Embryonic Stem Cells maintenance and their differentiation into various lineages and the guiding cues underlying the same. She has served as a member of Faculty selection committee, All India Institute of Medical Sciences and was a visiting scientist under Exploratory cooperative program between Japan Society for Promotion of Science, Japan and DST, India. She has got several honours and awards and has a number of cited publications and a patent to her credit. She reviews major stem cell articles from reputed journals and also

grant applications submitted by investigators to various funding agencies.



Rakesh Biswas, M.D

Rakesh Biswas graduated from Post Graduate Institute of Medical Education and Research, Chandigarh and is currently Professor, Department of Medicine, People's College of Medical Sciences, Bhopal, India. His interest in neuroscience is related to

his special interest in creating a 'user driven health care' community of patients and health professional users (including neuroscience professionals) for better health care outcomes. Dr Biswas is the regional editor: Journal of Evaluation in Clinical Practice, Wiley Blackwell, UK and editor: User-Driven Healthcare and Narrative Medicine and reviewer for Research evaluation panel of National Digital Research Centre, Ireland and reviewer for the journal, Medical Education, UK.



Nusrat Shafiq, M.D, D.M

Nusrat Shafiq graduated from Post Graduate Institute of Medical Education and Research, Chandigarh and obtained her DM from the same Institute. She is currently working as Assistant Professor at the Department of Pharmacology and has more than

35 indexed publications to her credit. Dr Nusrat has organized GCP workshop in her Department as its Joint Secretary.



Asok Mukhopadhyay, M.Tech, Ph.D

Asok Mukhopadhyay graduated from IIT, Delhi and is currently the Senior Scientist with National Institute of Immunology (NII), running a productive stem cell facility. He received his post doctoral training at MD

Anderson Cancer Center and also served at Thapar Corporate R & D Center (TCRDC). He is trying to develop bioreactor for expansion of engraftable stem cells and also interested in understanding *in vivo* trafficking and grafting of normal and *ex vivo* manipulated stem cells in different

organs, such as, bone marrow, liver, retina etc. Dr Mukopadhyay has earlier been instrumental in developing the technology for production of anti-leprosy vaccine leading to patents and highly cited papers. He is on several committees that focus on translational programs in the country and is recipient of Clayton Foundation for Research postdoctoral Research award at the time of his post doctoral work. His work has been adjudged as the among the best in NII that led to a product.



Fakhru Islam, Ph.D

Fakhru Islam graduated from Brain Research Centre, Aligarh Muslim University and is currently working in the Department of Toxicology, Jamia Hamdard as Associate Professor and training Neurotoxicology and Forensic Toxicology to the graduate students. He

was IBRO Post doctoral fellow to work at the Centre de Neurochimie du CNRS at Strasbourg Cedex, France from October 1985 to January 1987. He has supervised 17 Ph.D. scholars and all of whom are well placed in accomplished labs or running their own labs. Dr. Islam has published 70 research papers in international journals of repute and has completed 9 ambitious projects. The main goal of Islam's lab is to pioneer treatment of Neurodegenerative diseases. i.e. Cerebral ischemia, Parkinson's & Alzheimer's diseases using herbal extracts and active principles of medicinal plants and nanodrug delivery.



Paramjeet Singh, MD

Paramjeet Singh graduated from Post Graduate Institute of Medical Education and Research, Chandigarh earning his MD in Radiodiagnosis. He is currently working as Additional Professor and possesses 20 years of experience. He is interested in Magnetic Resonance

Imaging applications particularly in Neuroradiology, Musculoskeletal Radiology and body applications. He is a member of several learned bodies and has certificate of completion of specialist training (CCST) in Clinical Radiology from the Specialist Training Authority (STA) of the Medical Royal Colleges, UK and benn Visiting Professor at Division of Diagnostic and Interventional Neuroradiology, Department of Radiology, University of Rochester Medical Center, Rochester, NY, USA. May, 2005. He has more than 80 publications and several chapters in books.



Almaz Aldashev, Ph.D

Almaz Aldashev graduated from Biological Sciences and Biochemistry, Russian Cardiological Center, Moscow, Russia, and is currently the Director of the Institute of Molecular Biology and Medicine, Fellow and Chief Academician Secretary of National Academy of Sciences of Kyrgyzstan, Vice-chairman of Biochemical Society of Kyrgyzstan, Head of the Laboratory of Molecular and Cell Biology, National Center of Cardiology and Internal Medicine. He is the Editorial Board member of the famous national journal *Izvestiya*, Fellow of World Innovation Foundation, Senior Fellow of Pulmonary Vascular Research Institute, London, UK. Almaz Aldashev is the author of more than 140 scientific articles, including 3 monographs. Almaz is recipient of Fogarty International Center award, British Royal Society award, Wellcome Trust grant, British Heart Foundation award, Pfizer Research grant, International Sciences and Technology Center grant and NATO science for peace research award.



Stefan Glck, M.D, Ph.D

Stefan Glck obtained his medical degree from Free University of West Berlin, Germany and obtained his PhD from RWTH, Aachen. He is a medical oncologist as well as the Associate Division Chief of Hematology/Oncology for Clinical Affairs. Dr. Glck most recently was honored with the merit of Sylvester Professor of Medicine, Miller School of Medicine. He has been involved in running several clinical trials and currently serves as editorial board member for several journals and grant reviewer for many funding agencies. He has more than 150 publications and is a resource faculty for several international and national forums. He has been honored with the Best Doctors in America Award since 2006 since his arrival to the United States of America. His interest is in clinical trials in breast cancer and he is a PI of 24 clinical studies in breast cancer in Miami, and investigator in numerous scientific, translational projects. Dr Glck is a member of such prestigious professional organizations, as the American Society of Clinical Oncology, the European Society for Medical Oncology, the American and European Association of Cancer Research, and the International Association for Breast Cancer Research.



G.U. Gurudutta, Ph.D

Gurudutta graduated from University of Delhi and is currently the Head of Stem Cell and Gene therapy Research Program, Division of Radiation Biosciences. INMAS, DRDO, Delhi. He obtained his post doctoral training from University of Sao Paulo, Brazil, University of Pennsylvania, Philadelphia, USA and National Space Laboratory, Brookhaven National Laboratory, New York. Gurudutta has interest in understanding identifying and validating signaling pathways, their synergism, target genes of different germ line origin including all adult stem cells (Hematopoietic, Mesenchymal etc) and Embryonic stem cells to designate them as universal molecular manipulatable targets to enhance and harness potentials of stem cells in human organ transplantation & tissue engineering applications. He is member of American society of Biochemistry & Molecular Biology, Gene Therapy and ICSSR, USA. He is Official member of Program Advisory committee of DST and recipient of Lab technology development group award from DRDO, Min. of Defence. Gurudutta has been presently exploring the feasibility of enhancement of proliferation, differentiation, survival potential and stromal-ligand adherent potential necessary for enhanced engraftment / homing of transfused quiescent CD34 stem cells by introducing genetically engineered highly potent genes. This strategy may possibly help to repopulate or regenerate the human bone marrow when deficiency in stem cells occurs or stem cells for transfusion are unavailable. In addition, Gurudutta has been actively studying iPS cells and their mechanistic role in their recruited tissue regeneration.



Roberto Agustin Prado Alcala, Ph.D

Roberto Alcala obtained his Ph.D. form Concordia University, Canada in Psychology. He currently holds the position of Senior Researcher at the Institute of Neurobiology, National University of México where he was its past Chairman. He is member of the Mexican System of Researchers Level III and of the National Academy of Sciences. In recognition of his scientific and academic merits he has been awarded the Psychological Research Prize, Mexican Society of Psychology, 1984; Miguel Alemán Valdez Prize for excellence and productivity in Science, 1986; National Prize of Psychology, México, 1995; National University of Mexico Prize in the field of Teaching of Natural Sciences, 2000. He was

Editor-in-Chief of the Mexican Journal of Psychology (1998-2003), and is member of several Editorial Boards besides an active member of several learned societies. His scientific publications include 84 articles, 44 book chapters.



Rao M. Adibhatla, Ph.D

Rao M Adibhatla graduated in Chemistry from Indian Institute of Science under Prof. CNR Rao and is currently research Faculty at the Department of Neurological Surgery, University of Wisconsin School of Medicine and Public Health, USA. He

obtained his post doctoral training from Center for Cellular and Molecular Biology under Prof. D Balasubramanian, Hyderabad, also worked at University of Iowa, University of Missouri, University of Minnesota, University of Kentucky as research faculty and was also awarded the Alexander von Humboldt fellowship during 1987-88. He has more than 70 publications and awarded NIH and American heart Association grants. He has been invited to several International conferences and as invited guest speaker at MIT, NIH, Univ. of Miami, and Ferrer Grupo, Barcelona, Spain/Elder Pharmaceuticals, India; on "CDP-choline mechanisms and efficacy in stroke" and is on editorial board of many important journals and reviewer on several grants. Dr Rao is interested in signal transduction mechanisms in CNS trauma and integration between inflammation, lipid metabolism and phospholipid homeostasis in CNS injury and disorders. He is adhoc reviewer for more than 30 journals.



Suresh Kumar Sharma, Ph.D *Statistical Consultant*

Suresh Sharma obtained his Ph.D. in the area of "Ranking and Selection", and currently working in the area of Biostatistics, Department of Statistics, Panjab University, Chandigarh. His research interest includes Biostatistics,

Ranking and selection, Statistical Inference, Estimation and testing under ordered restrictions. He has been involved with several projects related to "Coronary Heart Disease", "Mother and Child Health Care" and "Public Health and Pollution Control in Asia" (Sponsored by ICMR/WHO/HEI, Boston, USA) at Post Graduate Institute of Medical Education and Research (PGIMER), Chandigarh. He serves as Consultant Statistician for number of Industries in India like Ranbaxy, a Pharmaceutical company, Semi-conductor,

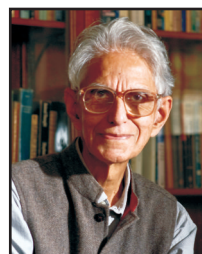
a company manufacturing electronic components, Bell Electronics, a company manufacturing wireless sets. Dr Sharma is associated with Commonwealth Secretariat, Asia Centre, U.K. He has many publications to his credit in National/International Journals of repute. Dr Sharma is a recipient of the Jacob Wolfowitz Prize award for his research paper entitled "Simultaneous Multiple Comparisons with the Worst and Best". One of his publication "Linearization of the relationship between serum sodium, potassium concentration, their ratio and time since death in Chandigarh zone of north-west India", has been awarded "Best Research award".



Mriganka Sur, FRS

Mriganka Sur, received the B. Tech. degree from the Indian Institute of Technology, Kanpur, and the Ph.D. degree from Vanderbilt University, Nashville. He is the Newton Professor of Neuroscience and Head of the Department of Brain and Cognitive

Sciences at the Massachusetts Institute of Technology (MIT). Professor Sur studies the development, organization and plasticity of the brain using experimental and computational approaches. He has discovered fundamental principles by which neurons of the cerebral cortex are wired during development and change dynamically in adulthood. His laboratory has developed novel technologies for visualizing the activity of brain cells and synapses, and proposed innovative strategies for treating brain disorders such as autism. A member of the MIT faculty since 1986, he has led the Department of Brain and Cognitive Sciences since 1997. He has received numerous awards and honors, including the Charles Judson Herrick Award, the McKnight Neuroscience Development Award, the Sigma Xi Distinguished Lectureship, the IIT Kanpur Distinguished Alumnus Award, and the Special Lectureship of the Society for Neuroscience. He has been elected to the Rodin Academy, Sweden, the American Academy of Arts and Sciences, the Third World Academy of Sciences, and the Royal Society of the UK.



Obaid Siddiqi, Ph.D, FNASc

Obaid Siddiqi is a world renowned scientist and fellow of several academies. He was the founding Director of National Centre Biological Sciences (NCBS). His lab is trying to understand the adaptive behavior and establishing its neural correlates by modeling learning and

memory in larva and imago. Prof Siddiqi has numerous international awards and highly cited publications to his credit. He has served on various national and international science committees impacting on science policies in this region.



S C Lakhotia, Ph.D, FNASc

Lakhotia graduated from University of Calcutta and is currently Professor of Zoology and Dean, Faculty of Science at Banaras Hindu University. He is a fellow of Indian National Science Academy, New Delhi, Indian Academy of Sciences, Bangalore and National

Academy of Sciences India, Allahabad and is recipient of SS Bhatnagar Prize (CSIR), J C Bose Award (UGC), Sundarlal Hora Medal (INSA), Prof. C.N.R. Rao Education Foundation Award for Excellence in Research at Banaras Hindu University. He is a member of editorial boards of several journals. Prof Lakhotia is an active proponent of elevating the standards of Indian scientific journalism. His lab focusses on developmental roles of the noncoding hsr-omega, HSP and a few other novel genes in *Drosophila* using genetic, cell biological, molecular and recombinant DNA approaches. Roles of these genes in modulating apoptosis and neurodegeneration in *Drosophila* models of human diseases and cellular effects of certain Ayurvedic formulations using fly model are being investigated.



Peter W Andrews, D.Phil

Peter Andrews gained his Ph.D. from University of Oxford and is currently co-director of the Centre for Stem Cell Biology at University of Sheffield. Following postdoctoral research at the Institut Pasteur in Paris and the Sloan Kettering Institute in New York,

he served as research scientist on the staff of the Wistar Institute of Anatomy and Biology in Philadelphia from 1978 to 1992. His research focuses on the biology of pluripotent human stemcells. Among his current activities he co-ordinates the International Stem Cell Initiative, which is focused upon characterising standard markers and culture conditions for human ES cells. He is also the co-ordinator of ESTOOLS, a European Integrated Project of 21 partners under the sixth framework program. He is an active member of an Indo UK stem cell project and serves on the editorial boards of several journals besides reviewing grants from several International funding agencies. He has

has highly cited publications in journals including Nature, Nature Biotechnology etc and responsible for many important discoveries in the field of Stem cell biology.



Keiji Tanaka, Ph.D

Keiji Tanaka started his research career in the primary visual cortex, and has gradually moved to more cognitive areas. He got Ph. D. from Faculty of Medicine, University of Tokyo and was one of the founding members of the RIKEN Brain Science Institute, where he is

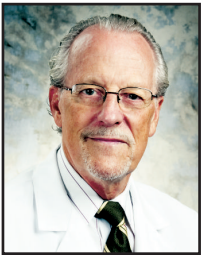
now acting as the Deputy Director. His research now focuses mechanisms of visual object recognition and goal-directed behavior by using cell-recording and lesion-behavioral methods on nonhuman primates. He has also pursued fMRI on the human cortex at sub-millimeter spatial resolution. He has several publications in Science and Nature. Dr Tanaka has held editorial positions with Science, Neuron, Journal of Neuroscience, Cerebral Cortex etc and organized several successful Neuroscience meetings. He is recipient of prestigious IPSEN Neuronal Plasticity Prize, Tohihiko-Tokizane Memorial Prize, and Science and Technology Prize (Ministry of Education, Culture, Sports, Science and Technology-Japan).



Martin E. Schwab, Ph.D

Martin E. Schwab has been Professor of Neuroscience at the ETH Zurich and at the Institute for Brain Research at the University of Zurich. The research group directed by Martin E. Schwab was established in 1985 at the Institute for Brain Research at the University of

Zurich. Prof Schwab is investigating cellular and molecular mechanisms of nerve fiber growth, in particular during regeneration of injured nerve fibers in the spinal cord and the brain, as well as in relation to structural plasticity in the adult central nervous system. The methods stem from molecular biology, biochemistry, cell biology and neuroanatomy. This research has led to a new paradigm in spinal cord injury research by the characterization of a novel protein of the central nervous system, namely Nogo-A, which is a strong inhibitor of nerve fiber outgrowth. Function blocking antibodies against Nogo-A was shown leads to functional recovery and the formation of new nerve fiber connections. Prof Schwab is on several European Neuroscience committees and has won numerous International awards and has several highly cited publications.

**Walter G. Bradley, DM, FRCP**

Bradley received his medical education from Oxford and is a Fellow of the Royal College of Physicians of London and Board Certified in Neurology and Psychiatry. He is a member and former Counselor of the American Neurological Association.

He is a Fellow of the American Academy of Neurology, and has been Chairman of the Scientific Program Committee, the Science Committee, and the Workforce Taskforce. He is a member of the Association of University Professors of Neurology and has been Chairman of its Bylaws Committee. Dr. Bradley has authored 24 books, more than 200 peer-reviewed articles and 100 chapters and reviews, as well as several on-line publications on healthcare reform. He is founding editor of the textbook "Neurology in Clinical Practice" that is now in its fifth edition and has become the major textbook of neurology for residents and clinicians worldwide. He founded and edited the journal "Muscle and Nerve" from 1978 to 1988, and was Editor of the Yearbook of Neurology and Neurosurgery from 1993 to 2000. He has been a member and chairman of a number of scientific advisory and editorial boards. He was organizing secretary of the Third International Congress on Muscle Disease in 1974. Dr. Bradley has an international reputation for his contributions to the fields of amyotrophic lateral sclerosis, peripheral neuropathies, inflammatory myopathies and muscular dystrophy.

**Hector H. Garcia, MD, Ph.D**

Hugo Garcia graduated from the Universidad Peruana Cayetano Heredia (UPCH) in Lima, Peru, and obtained his PhD from the Johns Hopkins University Bloomberg School of Public Health in Baltimore, USA. Currently he is a Full Professor in the

Department of Microbiology at UPCH and also heads the Cysticercosis Unit of the Instituto Nacional de Ciencias Neurológicas. Hugo is an acknowledged expert on Neurocysticercosis and other zoonotic diseases. He has published over 130 papers in international biomedical journals and multiple book chapters, and also serves as Associate Editor, PLoS Neglected Tropical Diseases and is Member of the Editorial Board, American Journal of Tropical Medicine and Hygiene, Experimental Parasitology and Editorial Consultant for The Lancet.

**Tom Isaacs**

Tom Isaacs was diagnosed with Parkinson's at the young age of 27 and since then has done everything he can to raise funds, heighten awareness and find a cure for the condition which is perceived by many as a condition affecting the elderly alone. Having

completed his highly successful 1,250 mile sponsored walk in 1999, Tom left his job as director of a London property company in April 2002 to undertake his Coastin' challenge. By April 2003, Tom had walked 4,500 miles around the British coastline, climbed the highest mountains in England, Scotland and Wales and run the Flora London Marathon, raising over 350,000. In 2004 he was runner up in the GMTV/Daily Mirror Fundraiser of the Year Award and in 2005 he was elected Charity Personality of the Year. In the same year, he co-founded The Cure Parkinson's Trust, an organisation which has gone on to raise 2.5 million and made a significant impact on the culture and urgency of the Parkinson's community and its quest for a cure. Tom has also been a Board Member of the European Parkinson's Disease Association since 2005. He also represents the interests of people with Parkinson's on DeNDRoN (the Dementias and Neurodegenerative Diseases Research Network) and is a member of the Steering Committee for the World Parkinson's Congress 2010 and Chairs its Patient Advisory Group. Tom has written a book "Shake Well Before Use" about his walk and his experiences with Parkinson's which he conveys with passion, optimism and humour. He speaks regularly to a wide ranging audiences about his condition and also often presents on television and radio giving his own perspective as someone living with Parkinson's.

**Kanikaram Satyanarayana, Ph.D**

Satyanarayana holds a Doctorate degree in biosciences from Sri Venkateswara University, Tirupati and is currently a senior Deputy Director-General and Chief of the Division of Publication & Information as also Intellectual Property

Rights Cell of the Indian Council of Medical Research (ICMR). He has been engaged in issues relating to publications, ethics, intellectual property rights and technology policy issues with special reference to developing countries for over 25 years. For over 20 years he has been training young and middle level doctors on the skills of communicating science to learned journals and has also organized workshops for medical

journal editors. He is also an expert in publication ethics and was the Ombudsman for the *Indian Journal of Pharmacology, first from the developing countries*. He is currently the ombudsman for *Neurology India*. Dr Satyanarayana has been the Chairman of the Central Institutional Ethical Committees of Dr R.M.L. Hospital, New Delhi and the CCRAS, New Delhi. He is also the editor of the *Indian Journal of Medical Research*.



Pavan Duggal

IP Consultant

Pavan Duggal graduated from faculty of Law at Delhi University and is currently working as Advocate with Supreme court of India. He is an acclaimed academician and serves as consultant to UNCTAD and UNESCAP,

Council of Europe on Cybercrime and Asian Development Bank. He has made an immense International impact on Intellectual property, Cyberlaw, E-Commerce laws and is interested in Business Process Outsourcing Law, Intellectual Property Rights and Information Technology Law, Information Security Law, Defence, Biotech and Corporate Law. Pavan is the President of Cyberlaws. Net, the founder of the Cyberlaw Association and the Founder-President of Cyberlaw India. He is also a member of the WIPO Arbitration and Mediation Center Panel of Neutrals and serves as Chairman of the Cyberlaw Committee of ASSOCHAM working closely with CII and FICCI. He is a task force member of ICT Policy and Governance Working Group of the UNICT. He is the Legal and Policy Consultant to Internet Mark 2 Project, which is examining the next level of Internet. He is also fellow of Centre for Asia Pacific Technology Law and Policy (CAPTEL) at Singapore and member of Panel of Arbitrators of the Regional Centre for Arbitration, Kuala Lumpur and Asian Domain Names Dispute Resolution Centre at Hong Kong. He has authored more than six books on various aspects of the law in the last six years.



Michael Coblenz

IP Consultant

Michael Coblenz is a patent and intellectual property attorney in Lexington, Kentucky, U.S.A. Before attending law school he served for seven years in the United States Air

Force. He graduated from the University of Illinois with a B.S. in Mechanical Engineering, received his law degree from Gonzaga University School of Law (with Honors), and has a masters in Intellectual Property Law from the University of Houston. He has written frequently on intellectual property law and American constitutional law and has been published most recently in the Texas Tech Law Review and the University of California at Los Angeles Entertainment Law Review



M.R.S. Rao, Ph.D

Ombudsman

M.R.S Rao graduated from Department of Biochemistry, Indian Institute of Science(IISc), Bangalore and obtained his postdoctoral training from Baylor College of Medicine, USA after which he joined back IISc. He currently directs the

Jawaharlal Nehru Centre for Advanced Scientific Research, Bangalore as its President and has received several recognitions including Shanti Swarup Bhatnagar (1998), Ranbaxy Science Foundation Award for Basic Medical Sciences (1999), O.P. Bhasin Award for Biotechnology(2002), FICCI Award for R&D in Life Sciences (2004), Dr. B.R.Ambedkar Centenary Award for Biomedical Research(2005) and TWAS Medal oration (2008). Prof Rao is a Fellow of all the Science Academies in India, and Academy of Sciences for the Developing World (TWAS), Trieste, Italy. Prof. Rao has been the Member and Chairman of several Scientific Advisory Committees of DBT, CSIR and DST and has also the Chairman of Research Council of CCMB Hyderabad and IICB, Kolkatta. Prof. Rao is first Chairman of the Board of Governors of Indian Institute of Science Education & Research (IISER), Trivandrum. He has published more than 130 papers in international journals and guided 30 students for Ph.D. Degree. Prof Rao is actively engaged in research on non-coding RNA in development and differentiation, cancer biology and chromatin biology. He is also the team leader of the CSIR's NMITLI Network Project on Cancer Genomics, particularly on Glioblastoma.



Avadhesha Surolia, Ph.D

Scientific Integrity Advisor

Avadhesha Surolia, obtained his Ph.D from the Christian Medical College, Vellore, under the supervision of Dr.Bimal K.Bachhawat and is currently the Director of NII. He earlier served as the Chairman of Molecular Biophysics

Unit, Indian Institute of Science during 2001-2006 and has been visiting scientist at Massachusetts Institute of Technology, Boston, USA. Prof. Surolia is recipient of numerous National and International awards and was also the President, International Glycoconjugate Organisation during 2003-2005. Prof. Surolia's pioneering contributions have strongly influenced International research on structure and function of lectins, orientation and dynamics of cell surface carbohydrate receptors as well as drug and molecular design and their biotechnological applications. He played a pivotal role together with his colleague M. Vijayan

in the discovery of the unusual quaternary structure of peanut agglutinin and a novel lectin fold in Jacalin as well as the structural basis of inactivation of ribosomes by gelonin—all of which laid the foundation of structural biology as it stands today in the country. His original strategies for drug and DNA delivery are widely acclaimed. Surolia has recently discovered that the fatty acid synthesis pathway in human malarial parasite is distinct from its human host and its interference by triclosan, a commonly used biocide, thus paving the way for novel drug development for treating malaria in collaboration with Namita Surolia.