

Dr. Kuladip Jana, M.Sc., M.S., Ph.D., Post-doctorate (U.S.A.), FRE

Dr. Kuladip Jana is presently serving as a Principal Scientist [Scientist-E] in the Department of Biological Sciences (formerly Division of Molecular Medicine and Scientist-In-Charge at the Centre for Translational Animal Research (CTAR), Bose Institute, Kolkata, India. Dr. Jana was trained as a Post-doctoral Research Associate in Molecular Endocrinology and Reproduction in relation with Aging/Alzheimer's disease in Garrison Institute on Aging, Texas Tech University Health Sciences Centre, Texas, U.S.A. and in Vaccine development against Cholera and Typhoid in National Institute of Cholera & Enteric Diseases, Kolkata, India and also in the field of Molecular signalling regulating cell growth/survival and death/apoptosis in breast/ cervical cancer cells in Saha Institute of Nuclear Physics, Kolkata after obtaining his M.S. and Ph.D. degree in Human Physiology (Molecular & Cellular Reproductive Biology & Endocrinology).



Presently, Dr. Jana's laboratory focusing on Translational drug developmental Research in diverse directions i.e. Ageing associated testicular gametogenic and steroidogenic dysfunctions: Ameliorating potential of natural product derived small molecules, Molecular signalling of germ cell apoptosis by Benzo(a)pyrene like environmental toxicants and its protection by natural aryl hydrocarbon receptor (AhR) antagonist, Diabetes associated Endocrine & Reproductive disorders as well as germ line stem cell apoptosis and its protection by natural flavonoids (Sulforaphane analogues), Molecular cues related to Polycystic Ovary Syndrome and both Type 1 and Type 2 Diabetes Mellitus in female infertility, Natural flavonoids Induced amelioration of Apoptosis in Cervical and Breast Cancer Cells: Role of β -catenin and Wnt signalling and Anti-cancer and anti-metastasis potential of Trans Stilbene Resveratrol derivative and Sulforaphane analogue through G2M arrest, microtubule depolarization, and apoptosis: involvement of TGF β signalling, Application of some Novel synthetic biomaterials/Nano-materials as a drug candidates against cancer and other diseases etc.

In the developmental work, Dr. Jana established a State-of-the-Art pre-clinical animal research facility, "Centre for Translational Animal Research", at Bose Institute, Kolkata, funded by DST, Govt. of India. Dr. Jana also developed a Non-surgical Chemical Sterilization drug for male animals during his Ph.D. work. Dr. Jana serves as an advisor on the Scientific Advisory Board of different institutes, and he is a Govt. of India-approved nominee in IAEC/IBSC/IHEC.

Based on his research and fellowship training Dr. Jana received several awards, Fellowship and honours, such as: Young Investigator Award, 2011 (USA), Young Scientist Award, 2012 & 2014 (USA), Outstanding Scientist Award, 2015, Eminent Scientist Award, 2022, Editor of Distinction Awards 2026 from Springer-Nature [Discover Oncology] Fellow of the National Environmental Science Academy (FNESA), Fellow of the Reproduction & Endocrinology (FRE) etc. He serves as an Editor and Editorial board member for over thirty reputed international journals. He has also authored many international research articles/book/book chapters (180 Nos.). Dr. Jana guided twelve Ph.D. students, and he is also a member of several learned Scientific Societies like the Society for Redox Biology & Medicine, USA, Science Advisory Board, USA, etc. Dr. Jana is an Honorary Rosalind Member of the London Journal Press, and he has visited abroad to deliver invited lectures and chair sessions at many conferences and workshops.