


Personal Information

Full name	Sun Jung Kim	
Current position	Professor	
Organization	Department of Life Science, Dongguk University	
Country	Republic of Korea	

Short Biography

Dr. Sun Jung Kim is a professor of Life Science at Dongguk University, South Korea. He received his Ph.D. in 1991 in Molecular Biology from the Korea Advanced Institute of Science and Technology and trained as a post doc (1991-1992) at the NIH, USA. He worked for Korea Research Institute of Bioscience and Biotechnology (1992-2000) where he participated in developing transgenic animals in the purpose of producing human proteins such as lactoferrin, interleukin-10, and thrombopoietin in milk of animals. In 2000, he moved to Dongguk university and since then he has been focused on the epigenetics of breast cancer. Mining of epigenetic markers that are downregulated by DNA hypermethylation and elucidation of the regulatory mechanism through molecular as well as cellular approach are the main subjects. With these approaches, a few methylation markers such as SCTR, MTO1, MRPL41, and NEFL have been newly identified. Identification cancer-specific microRNAs is also his main subject and dysregulation of miR-142, miR-145, miR-204, and miR-211 were found to be related with cancer development. Recently, he is trying to expand the cancer epigenetics study by linking together with the cold atmospheric plasma. As a preliminary work, genome-wide screening of epigenetic markers including coding genes and microRNAs that are affected by the plasma was carried out and identified a few potential candidate markers. These studies are believed to contribute to understanding the molecular mechanism of plasma for its therapeutic application.