



**Prof. Sun Jung Kim**

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**Dr. Sun Jung Kim** is a professor at Department of Life Science, Dongguk University, South Korea. He received his Ph.D. in 1991 in Molecular Biology from KAIST, Korea, and trained as a post doc at the NIH, USA. In 2000, he became a faculty member at Dongguk university and since then his research has focused on the epigenetics of breast cancer. Currently, he is expanding his career on cancer epigenetics by combining together with the cold atmospheric plasma (CAP). As representative plasma-medicine works, he identified cancer marker genes and noncoding RNAs, of which CpG methylation or histone modification is affected by plasma in breast cancer cells. Recently, his research team has found that CAP could contribute to the recovery of drug sensitivity to drug-resistant cancer cells. These findings give us an insight that plasma can be applied to overcoming of the drug-resistant cancer, not just to inducing death of the primary cancer. At the conference, Dr. Kim will present their findings on the modulation of the miR-19a-3p/IRF1-AS1/HBP1 and GJA1 pathway during the induction of apoptosis in cancer cells by CAP.