Seminars in Biotechnology BTEC 591 & BTEC 691

"microRNA Regulation in Cancer"

Thursday, December 22, 2022
13.30
GTU Institute of Biotechnology, Lecture Hall

Dr. Pınar UYSAL ONGANER
Group Leader, University of Westminster

microRNAs (miRs) are novel, non-coding RNAs that are often deregulated in human cancers and shown to control cancer related processes of cell growth, differentiation and cell death. miRs can be identified in peripheral blood, saliva, urine, faeces, peritoneal fluid, cerebral-spinal fluid, breast milk, vaginal discharge, semen and pancreatic fluid. Therefore, miRs are being investigated as promising therapeutic targets and biomarkers for different disease conditions. The involvement of miRs in the functioning and regulation of cancer cells and metastasis is rapidly advancing area of cancer research. We have identified a panel of miRs that their expressions significantly changed in solid tumours such as prostate, breast, and pancreatic adenocarcinoma. My presentation will explore the uses of miRs based on our data.

Dr Pinar Uysal-Onganer is a Reader in Molecular Biology and Cancer Mechanisms Research Group Leader at University of Westminster, London, UK. She has finished her PhD by completing her studies both at Centre for Hepatology at UCL and the Medical School of Marmara University in Turkey (2003). Her research experience involves a range of cell signalling mechanisms such as Wnt signalling, microRNAs and the functional and molecular aspects of cancer. She has also been actively involved in fund-raising activities with charities such as the Cancer Research UK, the Pancreatic Cancer UK and the Prostate Cancer Charity (PCC). She is an Athena Swan Coordinator of University of Westminster and runs STEMM activities for local schools and elected as Fellow of Royal Society of Biology (FRSB), American Chemical Society and an Ambassador of EACR. Pinar has completed Prevention of Cancer and Control Summer Curriculum at National Cancer Institute (NCI), NIH at 2017. She has become a Fellow of HEA at 2014 and Senior Fellow (SFHEA) at 2018.