



Anguraj Sadanandam

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Dr. Anguraj Sadanandam is the Team Leader and Career (Senior) Faculty (Tenured Associate Professor), Systems and Precision Cancer Medicine Team, Division of Molecular Pathology, ICR, London, UK. He is currently leading the Systems and Precision Medicine team at the ICR. He has an honorary appointment with Royal Marsden Hospital.

Dr. Sadanandam completed his interdisciplinary (wet-lab and computational biology) Ph.D. from the USA, and continued postdoc under Professors Joe Gray and Douglas Hanahan (USA and Switzerland). Briefly worked at the Swiss Institute of Bioinformatics.

Dr. Sadanandam joined the ICR in September 2013 as a Team Leader and currently applying his multidisciplinary skills to an integrated science of systems biology to identify and test precise therapies for different subtypes of cancers using experimental biology and artificial intelligence. Specifically, his team focuses on stratified and precision/individualized cancer therapy by developing biomarkers and companion diagnostic assays to predict treatment responses based on inter- and intra-tumoral and stromal/immune heterogeneity and tumour dynamics. They perform this using cutting-edge interdisciplinary sciences involving experimental, computational and clinical biology, and genome-phenome integrative data science and machine-learning approach. Moreover, the hypothesis generated from the computational methods is being tested using a panel of pre-clinical mouse, cell lines, and organoid models and mechanism-based research.

Sadanandam and colleagues have classified different tumor types with distinct prognostic, cell-of-origin/phenotypes, and therapeutic responses, including pancreatic, colorectal, and breast tumors and stroma (in multiple Nature Medicines, Cancer Discovery and other reputed journals). These pioneering studies are being explored by clinicians for potential applications for patient benefits.

Since August 2018, he works as a Research Collaborator (Kannan Lab), Mayo Clinic, Rochester and also has been a member of several research groups and societies such as the American Association of Cancer Research (AACR), the European Society for Medical Oncology (ESMO), the European Association of Cancer Research (EACR) and the American Society of Clinical Oncology (ASCO).