

Biosketch



Govind V. Kaigala, Ph.D

University of British Columbia, Vancouver

E-mail: govind.kaigala@ubc.ca

Dr. Govind Kaigala is currently an Associate Professor at the School of Biomedical Engineering, University of British Columbia. He is concurrently a PI in the Life Sciences Institute, a Senior Scientist at the Vancouver Prostate Center and an Associated Member at the BC Cancer Research Institute.

Prior to joining UBC he was a Research Staff Member at IBM Research Europe – Zurich where he spent about 11 years. Previously he was an NSERC postdoctoral fellow at the microfluidics laboratory in Mechanical Engineering and Urology at Stanford University, USA. Dr. Kaigala received his Ph.D (Electrical Engineering and Oncology) and M.Eng from the University of Alberta, Canada, and B.Eng from the University of Mumbai, India.

He is passionate about translational biomedical research and to bring quantitation in biology and medicine. He and the team leverage micro- and nanosystems for microchip-based chemical and biomolecular analysis.

The team is actively perusing research topics on liquid scanning probe technologies, reconfigurable microfluidics and microscale fluid control. These concepts have enabled a totally new class of microscale molecular methods implemented for precision tumor profiling.

Dr. Kaigala authored and co-authored 78 scientific publications, 95 conference papers, 1 book, and 44 patent families. In addition to IBM and other industrial entities, his work is supported by the University of British Columbia, Vancouver Coastal Health Research Institute and the Swiss National Science Foundation. Previously his work was supported by the European Research Council (ERC), the European Union. Dr. Kaigala is the recipient of several IBM awards, including Research Division Accomplishment Awards in 2014, 2017 and 2020, was named in 2018 by IBM as a “Master Inventor”, the Horizon Alumni Award from the University of Alberta, and he is a Senior Member of IEEE. Most recently he was name Fellow of the Royal Society of Chemistry in 2020.

Keywords:

Technology: Microfluidics | Lab-on-a-Chip | Liquid scanning probes | Microfluidic probe | Microscale assays |

Applications: Molecular diagnostics | Anatomical pathology | Tissue analysis | Multi-omic analysis | Diagnostic workflows | Tumor heterogeneity |

Last updated: 13 Oct. 2022