

## Biosketch



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Dr. Govind Kaigala is a Research Staff Member at IBM Research Europe - Zurich. 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 clinical/medical research and to bring quantitation in biology by leveraging micro- and nanosystems for microchip-based chemical and biomolecular analysis.**

At IBM, Dr. Kaigala is currently leading activities 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 has authored and co-authored 70 scientific publications, 90 conference papers, 1 book, and 44 patent families. In addition to IBM and other industrial entities, his work is supported by the European Research Council (ERC), the European Union, SystemsX.ch - Swiss National Science Foundation. 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 |

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