Biomedical Microsystems Fw203

S. KIM LAB.

Biomedical Microsystems

Department of Mechanical and Biofunctional Systems



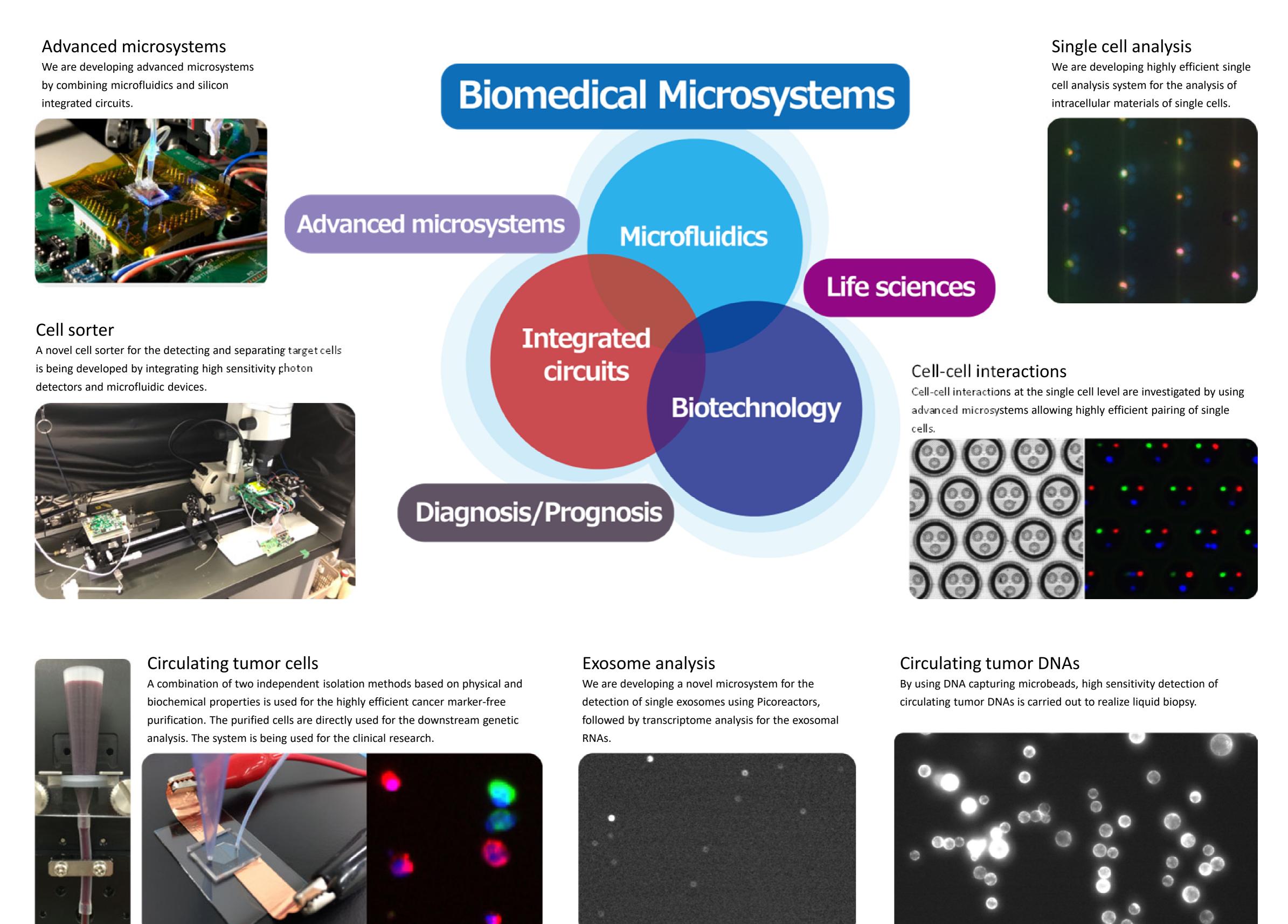
Microfluidic systems

Department of Precision Engineering, Graduate School of Engineering

http://www.shkimlab.iis.u-tokyo.ac.jp/

Single-molecule and -cell analysis

We are developing advanced biomedical microsystems by combining microfluidics, integrated circuits and biotechnologies for the analysis of biomolecules and cells. The systems are utilized for the study of living organisms and for the diagnosis and prognosis.



The Biomedical Microsystems are utilized for the analysis of single molecules and cells to overcome the limits of the biochemical analysis methodology. The systems are mainly applied to the liquid biopsy for the diagnosis and prognosis of cancers to realize personalized medicine.