

Applied Microfluidic Systems

Microfluidic devices are devices that perform various bioanalysis and chemical reactions inside a microchannel formed on a substrate using microfabrication technology. A series of technologies is called microfluidics. Now, this technology is expected to have a wide range of applications from inorganic chemical analysis to biomolecular analysis and cell manipulation, and many engineers in chemistry, biology, device technology, etc. In this lecture, we will systematically understand each item from the basics to the application of microfluidic devices with examples and exercises, and learn about specific application systems and new technologies. Discuss future possibilities as a paradigm.