

Microfluidic platforms for biomedical applications

Amy Shen

Microfluidics has emerged in recent years as a versatile method of manipulating fluids and cells at small length-scales. In this talk, I will introduce ongoing microfluidic research activities at OIST, and focus on droplet microfluidics for: (a) fabricating functionalized alginate microspheres for immunoassay applications; (b) encapsulating cells and immobilize oxygen sensitive dye for 3D real-time glucose sensing; (c) bio-imaging applications.