

## Faculty Profile

**Name:** Dr. Surabhi Sonam (Assistant Professor)

**Highest educational qualification:** PhD (Mechanobiology)

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**Research areas of interest:** Epithelial Healthcare, Cellular Bioengineering, Mechanobiology, Lithography, Microfluidics

**Teaching Subjects:** Cell Biology, Tissue Engineering, Mechanobiology

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### **Selected publications:**

1. Emergent patterns of collective cell migration under tubular confinement. W Xi\*, **S Sonam\***, TB Saw\*, B Ladoux, CT Lim. Article. 2017. *Nature communications* 8 (1), 1517. (\*co-first authors)
2. Soft tubular microfluidics for 2D and 3D applications. W Xi, F Kong, JC Yeo, L Yu, **S Sonam**, M Dao, X Gong, CT Lim. Article. 2017. *Proceedings of the National Academy of Sciences* 114 (40), 10590-10595
3. Cell contractility arising from topography and shear flow determines human mesenchymal stem cell fate. **S Sonam**, SR Sathe, EKF Yim, MP Sheetz, CT Lim. Article. 2016. *Scientific Reports* 6, 20415.
4. Large-Area, Periodic, Hexagonal Wrinkles on Nanocrystalline Graphitic Film. Y Liu, Kenry, Y Guo, **S Sonam**, SK Hong, MH Nai, CT Nai, L Gao, J Chen, BJ Cho, CT Lim, W Guo, KP Loh. 2015. *Advanced Functional Materials* 25 (34), 5492-5503.
5. Microfluidics for applications in cell mechanics and mechanobiology. HW Hou, WC Lee, MC Leong, **S Sonam**, SRK Vedula, CT Lim. 2011. *Cellular and Molecular Bioengineering* 4(4), 591-602