

## **Bioactive polymer surface supports for high avidity cell capture and proliferation**

### **Disclosure Number**

201303123

### **Technology Summary**

Microbial exopolysaccharides (EPS) play a critical and dynamic role in shaping the interactions between microbial community members and their local environment. The capture of targeted microbes using surface immobilized lectins that recognize specific oligosaccharide moieties offers a non-destructive method for functional characterization of microbes based on EPS expression. The invention provides a support. This microstructured block-copolymer support architecture combines high receptor/ligand density and three-dimensional structure to promote more efficient and robust capture of cells, cellular material, macro- and small molecules from solution. This could significantly improve the selectivity and sensitivity of commercial assays or sensors based on bio-recognition.

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