

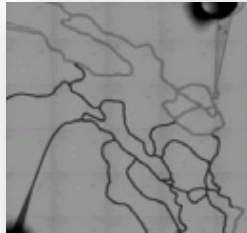
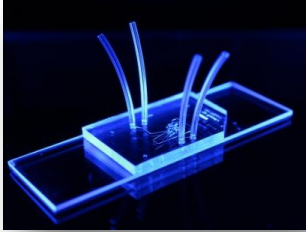


# Realistic. Dynamic. Cell-Based Assays.

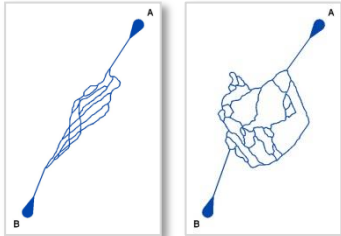
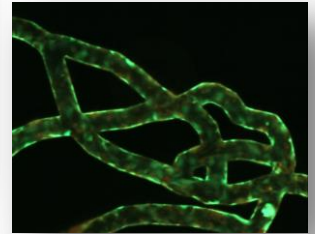
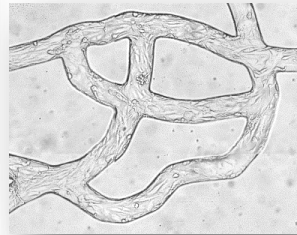
**SynVivo** is a physiological, cell-based microchip platform that provides a morphologically and biologically realistic micro-environment allowing real-time study of cellular behavior, drug delivery and drug discovery.

TheScientist  
**TOP  
TEN  
INNOVATIONS**

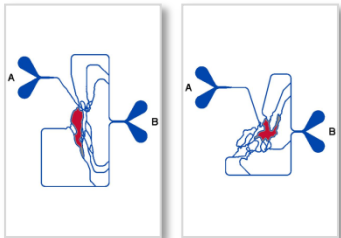
*A microfluidic cell-based assay platform imprinted  
with real microvasculature morphology...*



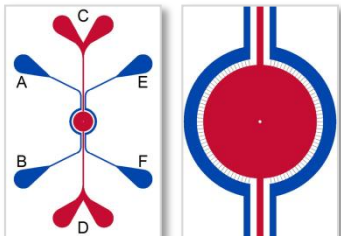
*...cultured with cells and studied under physiological flow to  
provide a more realistic *in vitro* assay.*



Use Microvascular Networks to replicate *in vivo* cell/particle adhesion and cell-cell or cell-particle interactions in an *in vitro* setting. Investigate effects of flow and morphology for drug development and cellular research. Obtain shear-adhesion maps and bifurcation vs. branch adhesion in single experiment.



By incorporating natural tissue regions within the network topology, the co-culture networks allow study of cell and drug behavior at and across the interface between the vessel lumen and tissue space. The co-culture network constructs are available with several options for channel size, tissue region scaffolding, and barrier design.



Intended to mimic the formation of and transport across tight and gap junctions such as the blood-brain barrier and other endothelial/tissue interfaces, the idealized co-culture constructs are available with several options for channel size, tissue chamber size and scaffolding, and barrier design.

## Contact Us Today to Discuss Your Research Needs!

info@synvivobio.com | 256.726.4810

More information can be found at [www.synvivobio.com](http://www.synvivobio.com)

Distributed in Austria and Germany by PELOBIOTECH GmbH

info@pelobiotech.com | +49 89 517 286 59 0 | [www.pelobiotech.com](http://www.pelobiotech.com)



REALISTIC. DYNAMIC. CELL-BASED ASSAYS.