



박재성 교수

연구분야

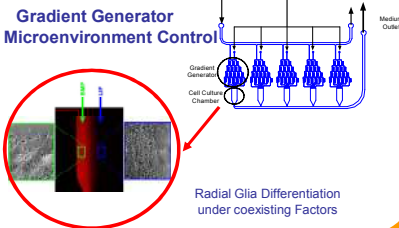
- Micro-Scale Tissue Engineering
- Biosensors/Nanostructure Interaction
- Micro/Macro-Scale Bioreactor and Bio-mechanical Systems
- Microelectromechanical Systems Design and Fabrication Process

BioMEMS

Micro Actuators and Sensors



Gradient Generator for Microenvironment Control



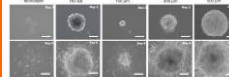
Radial Glia Differentiation under coexisting Factors

ES Cell Engineering

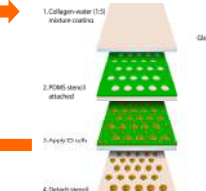
PDMS Stencil



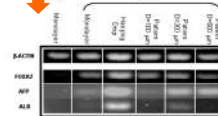
Aggregation Size Control



Surface Modification & Patterning



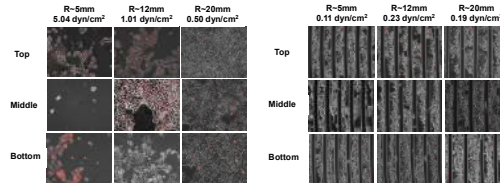
Differentiation Analysis



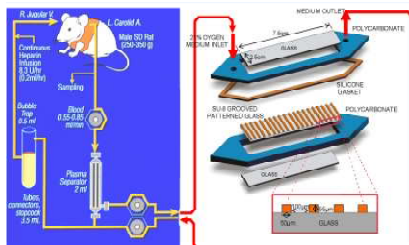
Hepatic Tissue Engineering & Bioartificial Liver

- Bridging for Liver Transplant
- Cell-Machine Hybrid Device
- Treatment for Acute Liver Failure

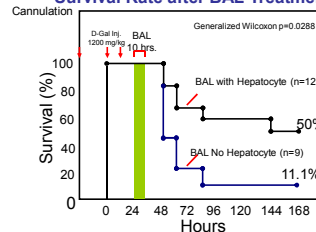
Primary Hepatocyte Viability in Designed Microstructure



Bioartificial Liver Concept



Survival Rate after BAL Treatment



- 연구실 위치 : 포항공과대학교 기계공학과 203 호
- 연락처 : Email) jpark@postech.ac.kr