

Gaurav Goyal

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Research Interests:

Neural tissue engineering, neural stem cell culture, spinal cord injury repair, bio-mimetic coatings for brain implantable electrodes

Education:

Masters 2007- 2009	Korea Advanced Institute of Science and Technology (KAIST), Daejeon, South Korea M S, Bio and Brain Engineering <ul style="list-style-type: none"> ▪ Thesis Title: Development of microchannel device for long term neuron culture
Bachelors 2002-2006	Ambala College of Engineering and Applied Research, Kurukshetra University, India Bachelor of Technology (B.Tech.), Biotechnology

Publications:

- G. Goyal and Y. Nam, *Effective maintenance of cell microenvironment for long-term neuronal culture in nano-liter scale microfluidic channels*, Proceedings of μ TAS 2009 Conference, pp. 522-524, Jeju Island, Korea, Nov. 1- 5, 2009
- J. Lim, G. Goyal and Y. Nam, *Miniaturized multi-well type neural assay platform on MEAs using cell-repulsive agarose hydrogel*, Proceedings of MEA Conference 2010, Reutlingen, Germany, June 29-July2 2010.

Conference presentations:

- G. Goyal and Y. Nam, *Effective maintenance of cell microenvironment for long-term neuronal culture in nano-liter scale microfluidic channels*, Proceedings of μ TAS 2009 Conference, pp. 522-524, Jeju Island, Korea, Nov. 1- 5, 2009 (Poster)
- G. Goyal and Y. Nam, *An effective protocol for long-term neuronal cultures in microfluidic channel devices*, BMES 2009 Annual Fall Meeting, Pittsburgh, PA, USA, Oct. 7-10, 2009 (Poster)
- M. Jang , G. Goyal and Y. Nam, *Comparative Study of Poly-L-lysine Patterning on Carbon Nanotubes Using Microcontact Printing and Micro Injection Molding in Capillaries*, Korean Bio-Chip Society Annual Spring Meeting 2009 (Poster)
- G. Goyal and Y. Nam, *Microfluidics for Neuron-on-a-chip*, Korean Bio-Chip Society Annual Fall Meeting 2008 (Poster)