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SEARCH

Erin Lavik, Ph.D.

Associate Professor

Office:	
Phone:	
Fax:	
Email:	erin.lavik@case.edu
Mail Address:	Room 309 Wickenden Building 10900 Euclid Avenue Cleveland, OH 44106-7207



Selected links:

- [Department of Biomedical Engineering](#)

Research Summary

Biomaterials, synthesis of new degradable polymers; tissue engineering; spinal cord repair; retinal regeneration; drug delivery for optic nerve preservation and repair.

Recent Publications

- M. C. Ford, J. P. Bertram, S. R. Hynes, M. Michaud, Q. Li, M. Young, S. S. Segal, J. A. Madri, Erin Lavik, A macroporous hydrogel for the co-culture of neural progenitor and endothelial cells to form functional vascular networks in vivo., 2006, *Proc. Nat. Acad. Sci.*, 103, 2512-2517.
- Erin Lavik, H. Klassen, K. Warfvinge, R. Langer, M. Young, Fabrication of a Novel Degradable Polymer Scaffold to Direct the Integration and Differentiation of Retinal Progenitors in Models of Retinal Degeneration, 2005, *Biomaterials*, 26, 3187-3196.
- S. Levenberg, N.F. Huang, Erin Lavik, A. Rogers, J. Itskovitz-Eldor, and R. Langer, Engineering Three-Dimensional Tissue Structures Using Differentiating Human Embryonic Stem Cells, 2003, *PNAS*.
- Y.D. Teng, Erin Lavik, X. Qu, K.I. Park, J. Ourednik, D. Zurakowski, R. Langer, E.Y. Snyder, Functional Recovery Following Traumatic Spinal Cord Injury Mediated by a Unique Polymer Scaffold Seeded with Neural Stem Cells, 2002, *Proc. Nat. Acad. Sci.*, 99, 3024-3029.

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[Department of Biomedical Engineering](#) | 309 Wickenden Building | Cleveland, Ohio 44106 | Dept. Phone: 216.368.4063

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This page was last modified November 18, 2009