

PURAMATRIX™ LITERATURE REFERENCES



LATEST PROTOCOLS & PUBLICATIONS AT WWW.PURAMATRIX.COM

- 1) Ellis-Behnke RG, Liang YX, You SW, Tay DK, Zhang S, So KF, Schneider GE. *Nano neuro knitting: peptide nanofiber scaffold for brain repair and axon regeneration with functional return of vision*. PNAS 103(13):5054-9 (2006).
- 2) Hsieh PC, Davis ME, Gannon J, MacGillivray C, Lee RT. *Controlled delivery of PDGF-BB for myocardial protection using injectable self-assembling peptide nanofibers*. J Clin Invest. 116(1):237-48 (2006).
- 3) Narmoneva, D., Oni, O., Sieminski, AL, Zhang, S., Gertler, JP, Kamm, RD, Lee, RT *Self-assembling short oligopeptides and the promotion of Angiogenesis*. Biomaterials 26: 4837-4846 (2005).
- 4) Mauck RL, Helm JM, Tuan RS. *Enhanced Chondrogenesis and Development of Mechanical Properties of Human Mesenchymal Stem Cells Seeded in a Self-Assembling Peptide Hydrogel*. Summer Bioeng. Conf., Vail, CO. (2005).
- 5) Wang, S., Nagrath, D., Berthiaume, F., Yarmush, M. *Long Term 3D Primary Hepatocyte Culture in Nano-Scaffold Hydrogel for Bioartificial Liver*. AICE Annual Meeting Abstracts (2005).
- 6) Aguirre, A., Rizvi, T., Ratner, N., Gallo, V. *Overexpression of the Epidermal Growth Factor Receptor Confers Migratory Properties to Nonmigratory Postnatal Neural Progenitors*. J. of Neuroscience 25(48):11092-11106 (2005)
- 7) Bokhari, MA., Akay G., Zhang S., Birch, MA. *The enhancement of osteoblast growth and differentiation in vitro on a peptide hydrogel—polyHIPE polymer hybrid material*. Biomaterials 26: 5198-5208 (2005).
- 8) Davis, ME, Motion, JPM, Narmoneva, D., Takahashi, T., Hakuno, D., Kamm, RD, Zhang, S., Lee, RT. *Injectable Self-Assembling Peptide Nanofibers Create Intramyocardial Microenvironments for Endothelial Cells*. Circulation 111:442-450 (2005).
- 9) Narmoneva, DA, Vukmirovic, R., Davis, ME, Kamm, RD, Lee, RT. *Endothelial Cells Promote Cardiac Myocyte Survival and Spatial Reorganization, Implications for Cardiac Regeneration*. Circulation 110:962-968 (2004).
- 10) Semino, CE, Kasahara, J., Hayashi, Y., Zhang, S. *Entrapment of Migrating Hippocampal Neural Cells in Three-Dimensional Peptide Nanofiber Scaffold*. Tissue Engineering Vol 10: 643-655 (2004).
- 11) Kiyonaka, S., Sada, K., Yoshimura, I., Shinkai, S., Kato, N., Hamachi, I. *Semi-wet peptide/protein array using supramolecular hydrogel*. Nature Materials 3: 58-64 (2004).
- 12) Semino, Carlos. *Can we build artificial stem cell compartments?* J. Biomed Biotechnol. 3:164-169 (2003).
- 13) Semino, C.E., Merok, J., Crane, G., Panagiotakos, G., Zhang, S. *Functional differentiation of hepatocyte-like spheroid structures from putative liver progenitor cells in three-dimensional peptide scaffolds*. Differentiation 71:262-270 (2003).
- 14) Kisiday, J., Jin, M., Kurz, B., Hung, H., Semino, C., Zhang, S. & Grodzinsky, A.J. *Self-assembling peptide hydrogel fosters chondrocyte extracellular matrix production and cell division: implications for cartilage tissue repair*. Proc. Natl. Acad. Sci. USA 99, 9996-1001 (2002).
- 15) Altman, M., Lee, P., Rich, A. & Zhang, S. *Conformational behavior of ionic self-complementary peptides* Protein Science 9 1095-1105 (2000).
- 16) Holmes, T. Delacalle, S., Su, X., Rich, A., Zhang, S. *Extensive neurite outgrowth and active neuronal synapses on peptide scaffolds*. Proc. Natl. Acad. Sci. USA 97, 6728-6733 (2000).
- 17) Zhang, S., Yan, L., Altman, M., Lässle, M., Nugent, H., Frankel, F., Lauffenburger, D., Whitesides, G. & Rich, A. *Biological surface engineering: A simple system for cell pattern formation*. Biomaterials 20, 1213-1220 (1999).
- 18) Leon, Erasmo J. et al. *Mechanical properties of a self-assembling oligopeptide matrix*. J. Biomater. Sci. Polymer Edn. 9.3: 297-312 (1998).
- 19) Zhang, S., Holmes, T., DiPersio, M., Hynes, R.O., Su, X. & Rich, A. *Self-complementary oligopeptide matrices support mammalian cell attachment*. Biomaterials 16, 1385-1393 (1995).
- 20) Zhang, S., Holmes, T., Lockshin, C. & Rich, A. *Spontaneous assembly of a self-complementary oligopeptide to form a stable macroscopic membrane*. Proc. Natl. Acad. Sci. USA 90, 3334-3338 (1993).