

Electronic Supplementary Material (ESI) for Nanoscale.
This journal is © The Royal Society of Chemistry 2016

Electronic Supplementary Information

Injectable Functionalized Self-assembling Nanopeptide Hydrogel on Angiogenesis and Neurogenesis for Central Nervous System Regeneration

Tzu-Wei Wang^{a*}, Kai-Chieh Chang^a, Liang-Hsin Chen^a, Shih-Yung Liao^b, Chia-Wei Yeh^a, Yung-Jen Chuang^c

^a Department of Materials Science and Engineering, National Tsing Hua University, Hsinchu, Taiwan

^b Department of Biomedical Engineering and Environmental Sciences, National Tsing Hua University, Hsinchu, Taiwan

^c Department of Medical Science & Institute of Bioinformatics and Structural Biology, National Tsing Hua University, Hsinchu, Taiwan

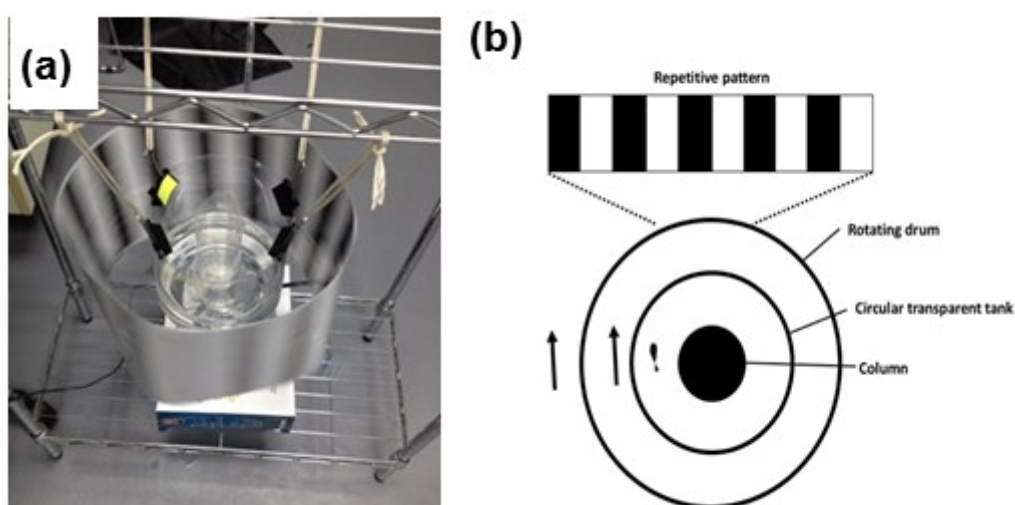


Figure S1. (a) Image of zebrafish optomotor response apparatus. (b) Zebrafish was placed in the circular transparent tank surrounded by a drum with repetitive black and white stripes. The animal optomotor response examination was conducted with stimulus from drum clockwise and counterclockwise rotation.

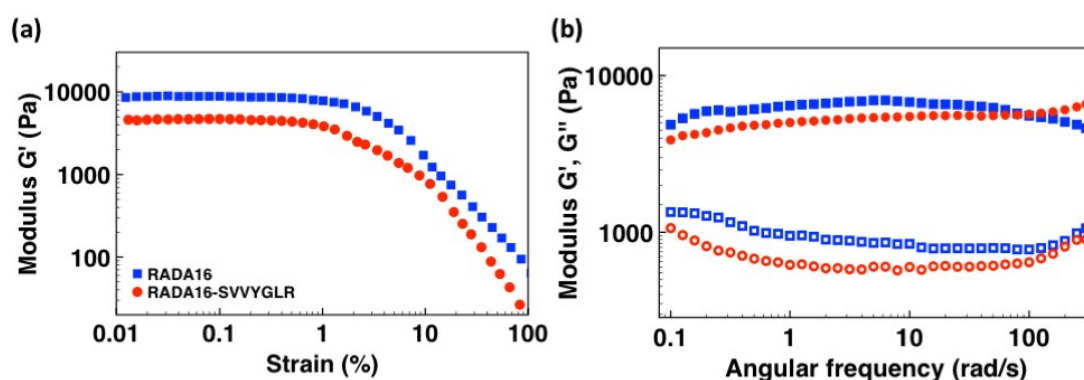


Figure S2. Rheological behavior of 2% (w/v) peptide hydrogel. (a) Strain sweep of RADA16 and RADA16-SVVYGLR at pH7 condition. \square : G' of RADA16; \bullet : G' of RADA16-SVVYGLR. (b) Frequency sweep of RADA16 and RADA16-SVVYGLR at pH7 condition. \square : G' of RADA16; \bullet : G' of RADA16-SVVYGLR; \square : G'' of RADA16; \circ : G'' of RADA16-SVVYGLR.

