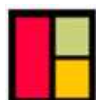




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 Traumatic injury to the spinal cord disrupts communication with the brain. To restore lost connectivity we utilize a peripheral nerve graft to provide a substratum for regenerating fibers in combination with neurotrophic factors and matrix-modulating enzymes to remove inhibitory molecules to promote long distance growth.
 Published: 11/20/2009

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 External electric field induces a voltage on the membrane of a cell, termed the induced membrane voltage ($\Delta\Phi$). By using the potentiometric dye di-8-ANEPPS, it is possible to measure the $\Delta\Phi$ noninvasively. This video shows the protocol for measuring $\Delta\Phi$ using di-8-ANEPPS.

John D. Houle
Arthi Amin
Marie-Pascale Cote
Michel Lemay
Kassi Miller
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Veronica Tom
Department of Neurobiology and Anatomy, Drexel University College of Medicine

Gorazd Pucihar
Tadej Kotnik
Damijan Miklavčič
Department of Biomedical Engineering, Faculty of Electrical Engineering, University of Ljubljana

Neurobiology, Issue 33, transplantation, SCI, regeneration, tract tracing, electrophysiology

Cellular Biology, Issue 33, induced transmembrane voltage, induced membrane voltage, induced transmembrane potential, potentiometric dyes, di-8-ANEPPS, electroporation

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 Published: 11/19/2009

The use of SC1 (Pluripotin) to Support mESC
 Wen Xiong¹
 Department of Biomedical Engineering, Faculty of Electrical Engineering, University of Ljubljana

John D. Houle
Arthi Amin
Marie-Pascale Cote
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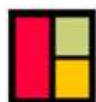
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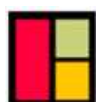
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Imaging In-Stent Restenosis: An Inexpensive, Reliable, and Rapid Preclinical Model
 This video demonstrates how to use a preclinical inexpensive and reliable model to study pathobiological and pathophysiological processes of in-stent restenosis development. Longitudinal in vivo monitoring using OCT (Optical Coherence Tomography) and analysis of OCT images are also demonstrated.
 Published: 09/14/2009

Tobias Deuse¹, Fumiaki Ikeno², Robert C. Robbins¹, Sonja Schrepfer¹
¹Department of Cardiothoracic Surgery, Stanford University School of Medicine
²Stanford University Medical Center

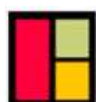
Medicine, Issue 31, stent, rats, restenosis, OCT, imaging

Primary Dissociated Midbrain Dopamine Cell Cultures from Rodent Neonates
 Primary dissociated midbrain dopamine cell cultures allow for the study of presynaptic characteristics of dopamine neurons. They can be used to monitor real-time dopamine release.

Lauren E. Frank, Angela D. Caldera-Siu, Emmanuel N. Pothos
 Department of Pharmacology and Experimental Therapeutics, Tufts University School of Medicine

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Imaging In-Stent Restenosis: An Inexpensive, Reliable, and Rapid Preclinical Model
Tobias Deuse¹, Fumiaki Ikeno², Robert C. Robbins¹, Sonja Schrepfer¹
¹Department of Cardiothoracic Surgery, Stanford University School of Medicine, ²Stanford University Medical Center

0:05	Title
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0:57	Aortic Stent Deployment
5:59	Optical Coherence Tomography (OCT) Imaging
7:35	Analyzing OCT Images
8:22	Representative Results
9:01	Conclusion

Abstract
Preclinical models of restenosis are essential to unravel the pathophysiological processes that lead to in-stent restenosis and to optimize existing and future drug-eluting stents.
A variety of antibodies and transgenic and knockout strains are available in rats. Consequently, a model for in-stent restenosis in the rat would be convenient for pathobiological and pathophysiological studies.

Keywords
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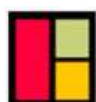
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