Selected Publications
RIYI SHI

Refereed Papers
[30] Hamann, K., Durkes, A., Ouyang, H., Uchida, K., Pond, A., and Shi, R. Critical role of acrolein in secondary injury following ex vivo spinal cord trauma. J. Neurochemistry, 107:712-721. 2008. *Note: This paper has been selected by Faculty of 1000 Biology. Faculty of 1000 Biology is an international award-winning online service that highlights and evaluates the most interesting papers published in the biological sciences, based on the recommendations of over 2000 of the world's top researchers.


[34] Li, J., Rickett, T., and Shi, R. Biomimetic nerve scaffolds with aligned intraluminal microchannels: A sweet approach to tissue engineering. *Langmuir*, in press.

**Presentations**

**Local**

[1] **Invited** seminar speaker at the Department of Basic Medical Sciences, School of Veterinary Medicine. August 31, 2006. “The role of acrolein in neuronal trauma and degenerative diseases”

**International**

[1] **Invited** seminar at Department of Neurobiology, Shanghai Second Medical University, Shanghai, China, July, 15, 2006 “Role of acrolein in spinal cord trauma and chronic neurodegenerative diseases”

[2] **Invited** speak at the Fourth Symposium on Neuroscience of Young Scholars Worldwide, Yunan China, July 12, 2006 “PEG-mediated neuronal repair in CNS trauma”

[3] **Invited** speaker at the Medical Association, Xiamen, China, June 26, 2006 “Current strategies to repair damaged nerve cells in CNS trauma”

[4] **Invited** seminar at Beijing Capital Medical University, March 18, 2007 “Neuronal membrane repair by PEG in acute CNS trauma”

[5] **Invited** seminar at Chinese Fourth Military Medical University, Xi’an, China, March 24, 2007 “Polyethylene glycol repairs membrane damage and enhances functional recovery: a tissue engineering approach to spinal cord injury”

[6] **Invited** seminar at Shanghai Second Medical University, Shanghai, China, March 27, 2007 “PEG-based treatment for spinal cord trauma, from bench to bedside”

[7] **Invited** seminar at Chinese Fourth Military Medical University, Xi’an, China, Oct 20, 2007 “The mechanism of acrolein-mediated neuronal damage in spinal cord trauma and neurodegenerative diseases”

[8] **Invited** seminar at the Department of Orthopaedics, School of Medicine, Jiao-Ton University, Shanghai, China, June 6, 2008 “The mechanisms and treatment of spinal cord injury”

**PATENTS**

[1] Issued: “Pyridine for treating injured mammalian nerve tissue”
Patent Number: 7,244,748
Issuance Date: July 1, 2007

[2] Issued “Methods and compositions for treating mammalian nerve tissue injuries”
Riyi Shi: Co-inventor: Richard Borgens (BMS).
Patent Number 2002314758, Issuance Date: September 21, 2006
Patent Number 529526, Issuance Date: October 12, 2006
Patent Number 543953, Issuance Date: August 9, 2007
Riyi Shi: Co-inventor: Daniel Smith (Industrial and Physical Pharmacy)
   Filed date: August 25, 2008
   Reference #: 65186

Riyi Shi: Co-inventor: Richard Borgens (BMS)
   Filed date: April 18, 2008.
   Reference #: 64415

[5] Pending: “Repairing damaged nervous system tissue with nanoparticles”
Riyi Shi: Co-inventor: Yungnan Cho (BMS), Richard Borgens (BMS)
   Filed date: January 16, 2008.
   Reference #: 64730

Riyi Shi: Co-inventor: Jianming Li (BME)
   Filed date: August 8, 2007.
   Reference #: 64732

Riyi Shi: Co-inventor: Ji-Xin Cheng (BME)
   Filed date: February 13, 2006
   Reference #: 64359

Riyi Shi: Co-inventor: Bradley Duerstock (BMS), Richard Borgens (BMS)
   Filed date: July 12, 2005
   Reference #: 64282

Riyi Shi: Co-inventor
   Filed date: March 29, 2005
   Reference #: 64283

Riyi Shi: Co-inventor: Richard Borgens (BMS)
   File date: Jan. 10, 2005
   Reference #: 64275