

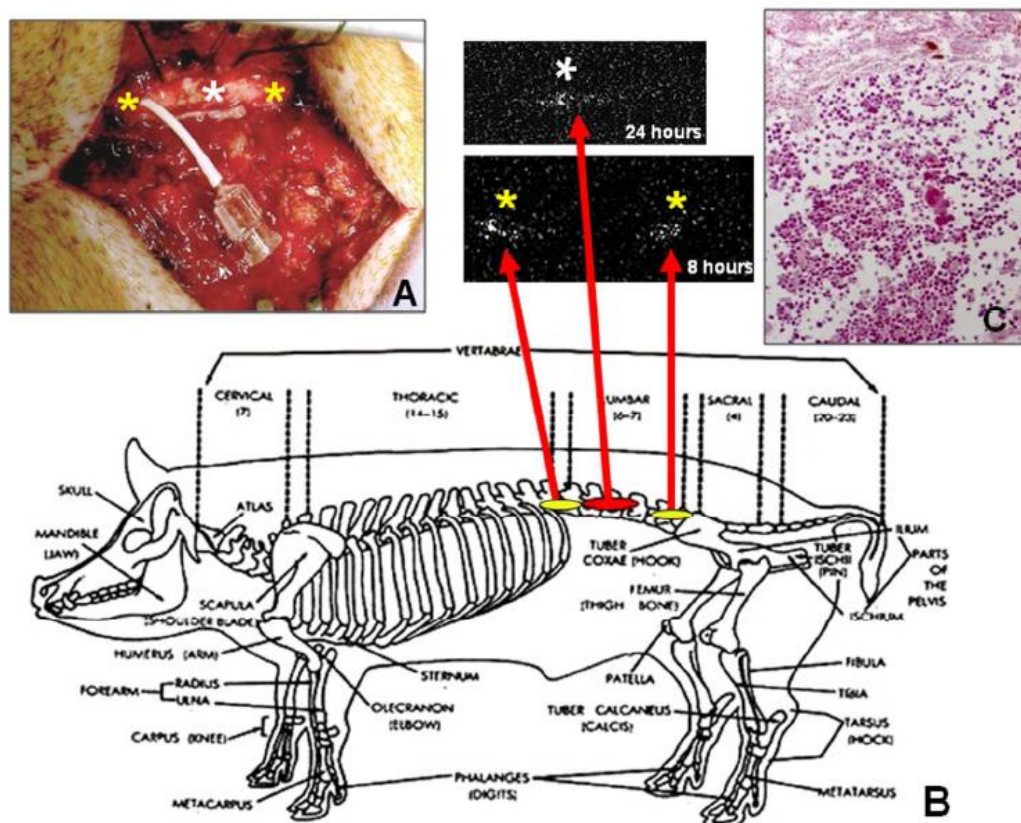


Figura: A. Imagen donde se muestra la administración subaracnoidea perilesional de las células mesenquimales. B. Esquema de la localización de las células marcadas a las 8 y 24 horas. Se observa como son capaces de invadir el parénquima medular y migrar hacia la cavidad postraumática. C. Imagen histológica que muestra las células dentro de la cavidad postraumática (H.E. technique, original magnification x 100).

REFERENCIAS

- Zurita M, Vaquero J, Oya S: Grafting of neural tissue in chronically injured spinal cord: Influence of the donor tissue on regenerative activity. *Surg. Neurol.* 54: 117-125, 2000
- Zurita M, Vaquero J, Oya S, Montilla J: Functional recovery in chronic paraplegic rats after co-grafts of fetal brain and adult peripheral nerve tissue. *Surg. Neurol.* 55: 249-254, 2001
- Zurita, M., Vaquero, J. Functional recovery in chronic paraplegia after bone marrow stromal cells transplantation. *Neuroreport* 15: 1105-1108, 2004
- Zurita M, Vaquero J, Oya S, Miguel M. Schwann cells induce neuronal differentiation of bone marrow stromal cells. *NeuroReport* 16: 505-508, 2005
- Vaquero J, Zurita M, Oya S, Santos M: Cell therapy using bone marrow stromal cells in chronic paraplegic rats: systemic or local administration ?. *Neurosci Lett* 398: 129-134, 2006
- Zurita, M., Vaquero, J. Bone marrow stromal cells can achieve cure of chronic paraplegic rats: Functional and morphological outcome one year after transplantation. *Neurosci. Lett.* 402: 51-56, 2006
- Zurita M, Vaquero J, Oya S, Bonilla C, Aguayo C: Neurotrophic Schwann-cell factors induce neural differentiation of bone marrow stromal cells. *NeuroReport* 18: 1713-1717, 2007

Zurita M, Bonilla C, Otero L, Aguayo C, Vaquero J: Neural transdifferentiation of bone marrow stromal cells is a short-time reversible phenomenon. *Neurosci. Res.* 60: 275-280, 2008

Zurita M, Vaquero J, Bonilla C, Santos M, De Haro J, Oya S, Aguayo C: Functional recovery of chronic paraplegic pigs after autologous transplantation of bone marrow stromal cells. *Transplantation* 86: 845-853, 2008

Vaquero J, Zurita M: Bone marrow stromal cells for spinal cord injury: A challenge for contemporary neurobiology. *Histol Histopathol* 24: 107-116, 2009

Zurita M, Otero L, Aguayo C, Bonilla C, Ferreira E, Parajón A, Vaquero J: Cell therapy for spinal cord repair: Optimization of biologic scaffolds for survival and neural differentiation of human bone marrow stromal cells. *Cytotherapy* 12: 522-537, 2010

J. Vaquero, M. Zurita. functional recovery after severe central nervous system trauma: current perspectives for cell therapy with bone marrow stromal cells. *Progr. Neurobiol.* 93: 341-349, 2011.

M. Zurita, C. Aguayo, C. Bonilla, L Otero, M. Rico, A. Rodríguez, J. Vaquero. The pig model of chronic paraplegia: a challenge for experimental studies in spinal cord injury. *Progr. Neurobiol.* 97: 288-303, 2012.

J. Vaquero and M. Zurita. Cell transplantation in paraplegics patients: the importance of properly assessing the spinal cord morphology. *Clinical Transplantation.* 27:968-971.2013.

M. Zurita, C. Aguayo, C. Bonilla, A. Rodríguez. J. Vaquero Perilesional intrathecal administration of autologous bone marrow stromal cells achieves functional improvement in pigs with chronic paraplegia.. *Cytotherapy*, 0:1-10; 2013.