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Mesenchymal stem cells in skeletal muscle regeneration

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Anabel S. de la Garza Rodea.
Leiden April 15th, 2011.

List of publications

List of publications

Administration of bone marrow cells into surgically induced fibrocollagenous tunnels induces angiogenesis in ischemic rat hindlimb model.

Padilla L, Krötzsch E, Schalch P, Figueroa S, Miranda A, Rojas E, Esperante S, Villegas F, **de la Garza AS**, Di Silvio M.

Microsurgery. 2003;23(6):568-74.

Bone marrow mononuclear cells stimulate angiogenesis when transplanted into surgically induced fibrocollagenous tunnels: results from a canine ischemic hindlimb model.

Padilla L, Krötzsch E, **De La Garza AS**, Figueroa S, Rodriguez-Trejo J, Avila G, Schalch P, Escotto I, Glennie G, Villegas F, Di Silvio M.

Microsurgery. 2007;27(2):91-7.

Some notes on the history of the experimental surgery laboratory. Reflections on its relevance in education and surgical research.

de la Garza-Rodea AS, Padilla-Sánchez L, de la Garza-Aguilar J, Neri-Vela R.

Cir Cir. 2007;75(6):499-505. Spanish.

Anomer-equilibrated streptozotocin solution for the induction of experimental diabetes in mice (*Mus musculus*).

de la Garza-Rodea AS, Knaän-Shanzer S, den Hartigh JD, Verhaegen AP, van Bekkum DW.

J Am Assoc Lab Anim Sci. 2010;49(1):40-4.

Long-Term Contribution of Human Bone Marrow Mesenchymal Stromal Cells to Skeletal Muscle Regeneration in Mice.

de la Garza-Rodea AS, van der Velde I, Boersma H, Gonçalves MA, van Bekkum DW, de Vries AA, Knaän-Shanzer S.

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Exploitation of herpesvirus immune evasion strategies to modify the immunogenicity of human mesenchymal stem cell transplants.

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Myogenic properties of human mesenchymal stem cells derived from three different sources.

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Cell Transplant. 2011 Jun 7. [Epub ahead of print]

Curriculum Vitae

Curriculum Vitae

Anabel S. de la Garza-Rodea was born on September 30th 1979 in Mexico City, Mexico. She graduated from high school in 1998 at the Escuela Nacional Preparatoria Plantel No. 5 “José Vasconcelos”. Afterwards she obtained the degree of Medicine in 2004 from Universidad Nacional Autónoma de México (UNAM), Mexico City, Mexico. During her studies (1998-2004) she was involved in diverse research projects first in the Anthropology department and then Surgery department of the Medicine Faculty of the UNAM. Also she worked as student-assistant (teaching activities) in the Surgery Department of the Medicine Faculty of the UNAM and in the West Hill University, Mexico City, Mexico.

In the 6th year (last) of Medicine studies (2004 – 2005) she did an internship in research at the Centro Médico Nacional “20 de Noviembre”, Mexico City, Mexico. Her thesis was about angiogenesis by transplantation of mononuclear cells isolated from bone marrow into surgically induced fibrocollagenous tunnels in murine and canine ischemic models. This work resulted in two published papers.

In 2005 she was awarded a scholarship for postgraduate studies from Universidad Autónoma de Nuevo León (UANL), Monterrey, Mexico and together with an invitation of Prof. Dirk W. van Bekkum and Dr. Shoshan Knaan-Shanzer she began work in Leiden, the Netherlands towards her PhD. Her project was in tissue regeneration with stem cells at the Virus and Stem Cell Biology Section of the Molecular Cell Biology Department of the Leiden University Medical Center (LUMC), Leiden, the Netherlands. The work performed in that project is presented here.

In 2011 she obtained a post doctoral grant from UANL. This allows her to continue working on some of her research projects at the LUMC.