



## Fernando Antonio Fierro, Ph.D.

<b>Clinical Interests</b>	Dr. Fierro's main research interest is stem cells, at both their basic biology and their application in the development of novel cell-based therapies. Since 2002, he has focused on human mesenchymal stromal cells (MSC) and their potential to repair damaged tissue, either by differentiation or as trophic mediators, modulating immune response, promoting angiogenesis, and other necessary adjacent healing functions. His current projects focus on evaluating the role of oxygen tension, growth factors and microRNAs in MSC-mediated tissue repair.
<b>Title</b>	Assistant Adjunct Professor
<b>Specialty</b>	<a href="#">Cell Biology and Human Anatomy</a>
<b>Department</b>	<a href="#">Cell Biology and Human Anatomy</a>
<b>Division</b>	Cell Biology and Human Anatomy
<b>Center/Program Affiliation</b>	<a href="#">Stem Cell Research Program</a>
<b>Languages</b>	German, Spanish
<b>Education</b>	Ph.D., Technische Universitaet Dresden, Dresden, 2008
<b>Fellowships</b>	Technische Universitaet Dresden, Dresden, 2008 University of California, Davis , Davis, CA, 2008
<b>Professional Memberships</b>	International Society Stem Cell Research
<b>Honors and Awards</b>	Carl Gustav Carus Prize to best scientific PhD thesis at Medical Faculty Technical University Dresden (TUD). Germany, 2008
<b>Select Recent Publications</b>	Kumari R, Li H, Haudenschild DR, Fierro F, Carlson CS, Overn P, Gupta L, Gupta K, Nolte J, Yik JH, Di Cesare P. The oncogene LRF is a survival factor in chondrosarcoma and contributes to tumor malignancy and drug resistance. <i>Carcinogenesis</i> . 2012 Jul 30. [Epub ahead of print] Ovcharenko D, St?lzel F, Poitz D, Fierro FA, Schaich M, Neubauer A, Kelnara K, Davison T, M?ller-Tidow C, Thiede C, Bornh?user M, Ehninger G, Brown D, Illmer T. miR-10a overexpression is associated with NPM1 mutations and MDM4 downregulation in intermediate-risk acute myeloid leukemia. <i>Exp Hematol</i> , 2011 Oct. 39(10):1030-1042. Gruenloh W, Kambal A, Sondergaard C, McGee J, Olson SD, Fierro F, Nolte JA. Characterization and in vivo testing of mesenchymal stem cells derived from human embryonic stem cells. <i>Tissue</i>



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Jing D, Fonseca AV, Alakel N, Fierro FA, Muller K, Bornhauser M, Ehninger G, Corbeil D, Ordemann R. Hematopoietic stem cells in coculture with mesenchymal stromal cells - modelling the niche compartments in vitro. *Haematologica*. 2010 April. 95(4):542-50.

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Fierro F, Illmer T, Jing D, Schleyer E, Ehninger G, Boxberger S, Bornhauser M. Inhibition of platelet-derived growth factor receptorbeta by imatinib mesylate suppresses proliferation and alters differentiation of human mesenchymal stem cells in vitro. *Cell Proliferation*. 2007 Jun;40(3):355-66.

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