

Fatih Kocabaş



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Research Interest

Small molecule induced ex vivo stem cell expansion

Therapeutic modulation of cardiac regeneration

Identification of OTU inhibitors

Small molecule enhancement of fibroblast expansion for regenerative medicine applications

Enhancement of AD-MSC and BM-MSC expansion with novel small molecules

Gene Editing Technologies in Stem Cells

Metabolic Identification of Stem Cells

Biography

BS: Molecular Biology and Genetics, Orta Doğu Technical University, Türkiye, 2007
Phd. Genetics and Development, University of Texas Southwestern (UTSW) Medical Center at Dallas, 2012

PEER REVIEWED ARTICLES

15 Research Articles

1. Pauline Rimmelé, Raymond Liang, Carolina L. Bigarella, Fatih Kocabas, Jingjing Xie, Madhavika N. Serasinghe, Jerry Chipuk, Hesham Sadek, Cheng Cheng Zhang, and Saghi Ghaffari. "Mitochondrial metabolism in hematopoietic stem cells requires functional FOXO3." *EMBO reports* (2015): e201439704. [Impact Factor: 7.8] PDF
2. Junke Zheng, Zhigang Lu, Fatih Kocabas, Ralph T Bottcher, Mercedes Costell, Xunlei Kang, Ralph J DeBerardinis, Xiaoye Liu, Qianming Wang, Guoqiang Chen, Hesham Sadek, and Chengcheng Zhang. Profilin 1 is essential for retention and metabolism of mouse hematopoietic stem cells in bone marrow. *BLOOD*. Jan 2, 2014. [Impact Factor: 9.898] PDF
3. Sheng Min Shih, Benjamin D Engel, Fatih Kocabas, Thomas Bilyard, Arne Gennerich, Wallace F Marshall, Ahmet Yildiz. Intraflagellar transport drives flagellar surface motility. *eLife* (June, 11, 2013). [Impact Factor: 9.322]PDF
4. Fatih Kocabas (co-first author), Ahmed I Mahmoud, Shalini A. Muralidhar, Wataru Kimura, Ahmed S. Koura, Suwannee Thet, Enzo R. Porrello, and Hesham A. Sadek. Meis1 regulates postnatal cardiomyocyte cell cycle arrest. *Nature* 497, no. 7448 (2013): 249-253. [Nature Impact Factor: 42.351] PDF
5. Fatih Kocabas, Junke Zheng, Suwannee Thet, Neal G. Copeland, Nancy A. Jenkins, Ralph J. DeBerardinis, Chengcheng Zhang, and Hesham A. Sadek. "Meis1 regulates the metabolic phenotype and oxidant defense of hematopoietic stem cells." *Blood* (2012). [Blood Impact Factor: 9.898] PDF
6. Fatih Kocabas(co-first author), Tugba Simsek, Junke Zheng, Ralph J. DeBerardinis, Ahmed I. Mahmoud, Eric N. Olson, Jay W. Schneider, Cheng Cheng Zhang, and Hesham A. Sadek. "The distinct metabolic profile of hematopoietic stem cells reflects their location in a hypoxic niche." *Cell Stem Cell* 7, no. 3 (2010): 380-390. [Cell Stem Cell Impact Factor: 25.421] PDF

42 PROCEEDINGS, and ABSTRACTS

BOOKS, BOOK CHAPTERS, DISSERTATION, EDITORIALS

1. Fatih Kocabas*. Emerging Roles of MEIS1 in Hematopoiesis and Heart Regeneration. ISBN 978-3-659-59658-2. LAP LAMBERT Academic Publishing, Germany. February 23, 2015. Link
2. Fatih Kocabas*, Junke Zheng, Chengcheng Zhang, and Hesham A. Sadek. "Metabolic Characterization of Hematopoietic Stem Cells." In *Hematopoietic Stem Cell Protocols*, pp. 155-164. Springer New York, 2014. PDF
3. Fatih Kocabas*. MEIS1: At the Crossroads between Metabolic and Cell Cycle Regulation. PhD diss., 2013. UT Southwestern Electronic Theses and Dissertations. PDF
4. Margaret Buckingham, Fatih Kocabaş. Editorial 'Regenerative and Restorative biology' *Turk J Biol*, 40, (2016) PDF

Courses

Fall: Human Genetics, Forensic Technologies, Fundamental Biology, Gene Editing Technologies, Advanced Stem Cell Technologies

Spring: Stem Cell Biology, Stem Cell Techniques, Renenerative Biology and Biomedical Applications

Website

<http://regbio.yeditepe.edu.tr/index.html>