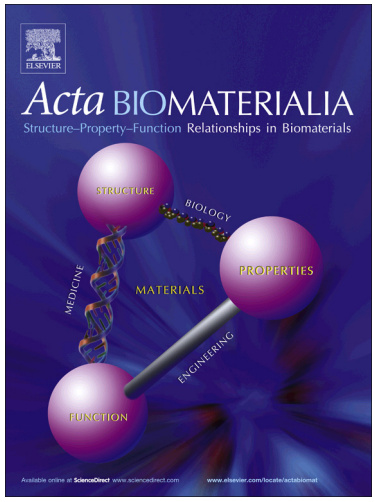

Hyaluronan size alters chondrogenesis of adipose-derived stem cells via the CD44/ERK/SOX-9 pathway

Shun-Cheng Wu, Chung-Hwan Chen, Jyun-Ya Wang, Yi-Shan Lin, Je-Ken Chang, Mei-Ling Ho

PII: S1742-7061(17)30709-2
DOI: https://doi.org/10.1016/j.actbio.2017.11.025
Reference: ACTBIO 5178

To appear in: *Acta Biomaterialia*

Received Date: 29 June 2017
Revised Date: 2 November 2017
Accepted Date: 7 November 2017

Please cite this article as: Wu, S-C., Chen, C-H., Wang, J-Y., Lin, Y-S., Chang, J-K., Ho, M-L., Hyaluronan size alters chondrogenesis of adipose-derived stem cells via the CD44/ERK/SOX-9 pathway, *Acta Biomaterialia* (2017), doi: https://doi.org/10.1016/j.actbio.2017.11.025

Hyaluronan size alters chondrogenesis of adipose-derived stem cells via the CD44/ERK/SOX-9 pathway

Shun-Cheng Wu[1], Chung-Hwan Chen[1,2,3,4], Jyun-Ya Wang[1], Yi-Shan Lin[1], Je-Ken Chang[1,2,3,4#], Mei-Ling Ho[1, 5, 6, 7,8*#]

[1]Orthopaedic Research Center, Kaohsiung Medical University, Kaohsiung, Taiwan
[2]Department of Orthopaedics, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan
[3]Division of Adult Reconstruction Surgery, Department of Orthopedics, Kaohsiung Medical University Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan
[4]Department of Orthopedics, Kaohsiung Municipal Ta-Tung Hospital, Kaohsiung Medical University, Kaohsiung, Taiwan
[5]Graduate Institute of Medicine, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan
[6]Department of Physiology, College of Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan
[7]Department of Marine Biotechnology and Resources, National Sun Yat-sen University, Kaohsiung, Taiwan
[8]Department of Medical Research, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan
[#]Mei-Ling Ho and Je-ken Chang contributed equally to the study.

Corresponding author:
Dr. Mei-Ling Ho,
Department of Physiology, College of Medicine, Kaohsiung Medical University,
No. 100, Shih-Chuan 1st Road,
Kaohsiung 807, Taiwan
Tel.: 886-7-3121101 (Ext. 2553);
Fax: 886-7-3219452;
E-mail: homelin@kmu.edu.tw
Dr. Je-ken Chang,
Department of Orthopaedics, College of Medicine, Kaohsiung Medical University,
No. 100, Shih-Chuan 1st Road,
Kaohsiung 807, Taiwan
Tel.: 886-7-3121101 (Ext. 2553);
Fax: 886-7-2911590
E-mail: jkchang@kmu.edu.tw