## Accepted Manuscript

Notch Signaling in Postnatal Joint Chondrocytes, but not Subchondral Osteoblasts, is Required for Articular Cartilage and Joint Maintenance

Zhaoyang Liu, Yinshi Ren, Anthony J. Mirando, Cuicui Wang, Michael J. Zuscik, Regis J. O'Keefe, Matthew J. Hilton

PII: S1063-4584(15)01368-0

DOI: 10.1016/j.joca.2015.10.015

Reference: YJOCA 3617

To appear in: Osteoarthritis and Cartilage

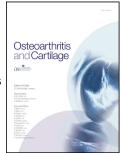
Received Date: 29 May 2015

Revised Date: 15 October 2015

Accepted Date: 22 October 2015

Please cite this article as: Liu Z, Ren Y, Mirando AJ, Wang C, Zuscik MJ, O'Keefe RJ, Hilton MJ, Notch Signaling in Postnatal Joint Chondrocytes, but not Subchondral Osteoblasts, is Required for Articular Cartilage and Joint Maintenance, *Osteoarthritis and Cartilage* (2015), doi: 10.1016/j.joca.2015.10.015.

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



### Notch Signaling in Postnatal Joint Chondrocytes, but not Subchondral Osteoblasts, is Required for Articular Cartilage and Joint Maintenance

Zhaoyang Liu<sup>1,2</sup>, Yinshi Ren<sup>3</sup>, Anthony J. Mirando<sup>1,3</sup>, Cuicui Wang<sup>1,4</sup>, Michael J. Zuscik<sup>1</sup>, Regis J. O'Keefe<sup>1,4</sup>, and Matthew J. Hilton<sup>1,3,5\*</sup>

<sup>1</sup>Department of Orthopaedics and Rehabilitation, The Center for Musculoskeletal Research, University of Rochester Medical Center, Rochester, NY 14642, USA

<sup>2</sup>Department of Biology, University of Rochester, Rochester, NY 14642, USA

<sup>3</sup>Department of Orthopaedic Surgery, Duke Orthopaedic Cellular, Developmental, and Genome Laboratories, Duke University School of Medicine, Durham, NC 27710, USA

<sup>4</sup>Department of Orthopaedic Surgery, Washington University School of Medicine, St. Louis, MO 63110, USA <sup>5</sup>Department of Cell Biology, Duke University School of Medicine, Durham, NC 27710, USA

\*Corresponding author and address: Matthew J. Hilton, Ph.D. Duke University School of Medicine Departments of Orthopaedic Surgery and Cell Biology Duke Orthopaedic Cellular, Developmental, and Genome Laboratories 450 Research Drive, LSRC B321C Durham, NC 27710

Phone: (919) 613-9761 Email: matthew.hilton@dm.duke.edu

#### Key words

Notch signaling, osteoarthritis, cartilage, chondrocytes, subchondral bone, synovium

#### **Running Title**

Notch Signaling in Joint Maintenance and Osteoarthritis

Download English Version:

# https://daneshyari.com/en/article/6124617

Download Persian Version:

https://daneshyari.com/article/6124617

Daneshyari.com