Accepted Manuscript

HCSGD: an integrated database of human cellular senescence genes

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PII: S1673-8527(17)30070-X

DOI: 10.1016/j.jgg.2017.04.001

Reference: JGG 524

To appear in: Journal of Genetics and Genomics

Received Date: 12 December 2016

Revised Date: 4 April 2017

Accepted Date: 10 April 2017

Please cite this article as: Dong, Q., Han, H., Liu, X., Wei, L., Zhang, W., Zhao, Z., Zhang, M.Q., Wang, X., HCSGD: an integrated database of human cellular senescence genes, *Journal of Genetics and Genomics* (2017), doi: 10.1016/j.jgg.2017.04.001.

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19 Abstract

20 Cellular senescence is an irreversible cell cycle arrest program in response to various 21 exogenous and endogenous stimuli like telomere dysfunction and DNA damage. It has 22 been widely accepted as an anti-tumor program and is also found closely related to embryo development, tissue repair, organismal aging and age-related degenerative 23 24 diseases. In the past decades, numerous efforts have been made to uncover the gene 25 regulatory mechanisms of cellular senescence. There is a strong demand to integrate these 26 data from various resources into one open platform. To facilitate researchers on cellular 27 senescence, we have developed Human Cellular Senescence Gene Database (HCSGD) by 28 integrating multiple online published data sources into a comprehensive senescence gene (http://bioinfo.au.tsinghua.edu.cn/member/xwwang/HCSGD). 29 annotation platform 30 Potential Human Cellular Senescence Genes (HCSGS) were collected by combining

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