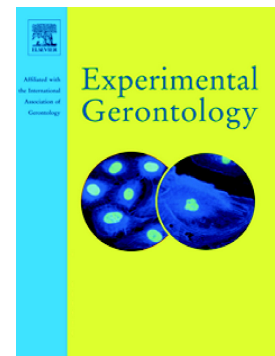


Accepted Manuscript

Korean red ginseng improves testicular ineffectiveness in aging rats by modulating spermatogenesis-related molecules

Spandana Rajendra Kopalli, Kyu-Min Cha, Ji-Hoon Ryu, Sang-Ho Lee, Min-Sik Jeong, Seock-Yeon Hwang, Young-Joo Lee, Hee-Won Song, Su-Nam Kim, Jin-Chul Kim, Si-Kwan Kim



PII: S0531-5565(16)30244-3
DOI: doi: [10.1016/j.exger.2017.01.020](https://doi.org/10.1016/j.exger.2017.01.020)
Reference: EXG 9987

To appear in: *Experimental Gerontology*

Received date: 5 August 2016
Revised date: 10 October 2016
Accepted date: 22 January 2017

Please cite this article as: Spandana Rajendra Kopalli, Kyu-Min Cha, Ji-Hoon Ryu, Sang-Ho Lee, Min-Sik Jeong, Seock-Yeon Hwang, Young-Joo Lee, Hee-Won Song, Su-Nam Kim, Jin-Chul Kim, Si-Kwan Kim , Korean red ginseng improves testicular ineffectiveness in aging rats by modulating spermatogenesis-related molecules. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Exg(2017), doi: [10.1016/j.exger.2017.01.020](https://doi.org/10.1016/j.exger.2017.01.020)

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.

Korean Red Ginseng improves testicular ineffectiveness in aging rats by modulating spermatogenesis-related molecules

Spandana Rajendra Kopalli^{a,1}, Kyu-Min Cha^{a,1}, Ji-Hoon Ryu^a, Sang-Ho Lee^a, Min-Sik Jeong^a, Seock-Yeon Hwang^b, Young-Joo Lee^c, Hee-Won Song^c, Su-Nam Kim^d, Jin-Chul Kim^d, and Si-Kwan Kim^{a,*}

^aDepartment of Biomedical Chemistry, College of Biomedical and Health Science, Konkuk University, Chungju 380-701, Republic of Korea

^bDepartment of Biomedical Laboratory Science, College of Applied Science and Industry, Daejeon University, Daejeon 300-716, Republic of Korea

^cDepartment of Bioscience and Biotechnology, Sejong University, Kunja-dong, Kwangjin-gu, Seoul 143-747, Republic of Korea.

^dDepartment of Natural Constituents Research Center, Korea Institute of Science and Technology, Gangneung, Gangwon-do, 210-340, Republic of Korea.

¹These authors contributed equally to this work.

***Corresponding author:** E-mail: skkim@kku.ac.kr (S.K. Kim); Tel.: +82 43 840 3574; Fax: +82 43 840 3872

Abbreviations: KRG-WE, Korean red ginseng water extract.

Download English Version:

<https://daneshyari.com/en/article/5501395>

Download Persian Version:

<https://daneshyari.com/article/5501395>

[Daneshyari.com](https://daneshyari.com)