

# Accepted Manuscript

A protective mechanism of visible red light in normal human dermal fibroblasts:  
Enhancement of GADD45A-mediated DNA repair activity

Yeo Jin Kim, Hyoung-June Kim, Hye Lim Kim, Hyo Jeong Kim, Hyun Soo Kim, Tae  
Ryong Lee, Dong Wook Shin, Young Rok Seo

PII: S0022-202X(16)32482-4

DOI: [10.1016/j.jid.2016.07.041](https://doi.org/10.1016/j.jid.2016.07.041)

Reference: JID 558

To appear in: *The Journal of Investigative Dermatology*

Received Date: 28 October 2015

Revised Date: 16 July 2016

Accepted Date: 21 July 2016

Please cite this article as: Kim YJ, Kim H-J, Kim HL, Kim HJ, Kim HS, Lee TR, Shin DW, Seo YR, A protective mechanism of visible red light in normal human dermal fibroblasts: Enhancement of GADD45A-mediated DNA repair activity, *The Journal of Investigative Dermatology* (2016), doi: 10.1016/j.jid.2016.07.041.

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.



# **A protective mechanism of visible red light in normal human dermal fibroblasts: Enhancement of GADD45A-mediated DNA repair activity**

Yeo Jin Kim<sup>1,3</sup>, Hyoung-June Kim<sup>2,3</sup>, Hye Lim Kim<sup>1,3</sup>, Hyo Jeong Kim<sup>1</sup>, Hyun Soo Kim<sup>1</sup>, Tae Ryong Lee<sup>2</sup>, Dong Wook Shin<sup>2</sup> and Young Rok Seo<sup>1</sup>

<sup>1</sup>Department of Life Science, Institute of Environmental Medicine, Dongguk University Biomedical Campus, Goyang-si, Gyeonggi-do, Republic of Korea and <sup>2</sup>Bioscience Research Institute, Amorepacific Corporation R&D Center, Yongin-si, Gyeonggi-do, Republic of Korea

<sup>3</sup>These authors contributed equally to this work.

## **Authors to whom correspondence should be addressed;**

Young Rok Seo

Department of Life Science, Institute of Environmental Medicine, Dongguk University Biomedical Campus, 32, Dongguk-ro, Ilsandong-gu, Goyang-si, Gyeonggi-do, 10326, Republic of Korea  
Tel.: +82-31-961-5172; E-mail: seoyr@dongguk.edu

Dong Wook Shin

Bioscience Research Institute, Amorepacific Corporation R&D Center, 1920, Yonggu-daero, Giheung-gu, Yongin-si, Gyeonggi-do, 17074, Republic of Korea  
Tel.: +82-10-2645-6496; Fax: +82-31-899-2595; E-mail: biopang@amorepacific.com

**Short title:** Visible Red Light Enhances BER Activity

**Keywords:** Visible red light, Protective effect, Base excision repair, GADD45A, ATF2

Download English Version:

<https://daneshyari.com/en/article/5649796>

Download Persian Version:

<https://daneshyari.com/article/5649796>

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