※ 모든 글씨체는 Times New Roman,

**Main Title** (12p, 진하게)

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1(한칸띄기) 주소 (12p)

2 주소

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**Abstract** (12p, 진하게)

**Backgrounds** The photoprotective effects of minerals from Korean indigenous ores, consisting mainly of sericite.

**Objective** The polyphenol treated group showed approximately 30 %(기호 한칸띄기) less MMP-1 mRNA than that of the control cell treated with UVA only.

**Results** It is showed that the treatment of the minerals significantly reduced the UVA-enhanced MMP-1 activity and mRNA level.

**Conclusion** (양쪽 정렬, 12p)

**Key words (12p, 진하게)** Apple, Bug, Candy, Different, Gag (각 단어 당 첫글자는 대문자, 12p)

**Introduction** **(12p, 진하게)**

(첫 단락 띄어쓰기없음, 단락이 바뀌면 1 Tab 적용)The recognition that an intimate relationship exists between the environment, particularly the geologic materials, and human health has led to the recent development of a new field of science called medical geology (한칸띄기)1, 5 or 1-4. (12p)

**Materials & Methods (양쪽정렬, 진하게, 12p)**

**SEM image and MTT assay (소제목 꼭 표시, 12p)**

 (첫 단락 띄어쓰기없음, 단락이 바뀌면 1 Tab 적용) The electrophoresed gel was washed twice with washing buffer containing 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, and 2.5 % Triton X- 100, followed by a brief rinsing in washing buffer without Triton X-100. (12p)

<기호 표시>

ml, ug, ul -> mL, µg, µL 로 바꿈

삽입기호를 통한 연결 기호는 사용 불가 ex) ㎍, ㎖

**Results (12p, 진하게)**

**SEM image and MTT assay (소제목 꼭 표시, 12p)**

(첫 단락 띄어쓰기없음, 단락이 바뀌면 1 Tab 적용)The SEM image of the ore mineral powder is shown in Figure 1. (12p)

**Discussion (양쪽정렬, 진하게, 12p)**

(첫 단락 띄어쓰기없음, 단락이 바뀌면 1 Tab 적용)Taken together, the data here suggest that ore minerals are potent photo-protective and anti-skin-aging ingredients that prevent the skin cell damage by UVA irradiation. (12p)

**Acknowledgement (진하게, 12P)** This work was supported by the Korea Science and Engineering Foundation (KOSEF) grant funded by the Korea government (MEST) (No. 20090091416) (12p)

**Author contribution (진하게, 12P)**

Gil-Dong Hong & Cheol-Soo Kim designed the research study. Gil-Dong Hong & Cheol-Soo Kim performed the experiments and analyzed data. Gil-Dong Hong & Cheol-Soo Kim interpreted data and wrote the manuscript. (12p)

**Compliance with ethical standards (진하게, 12P)**

(반드시 Conflict of Interest와 Ethical approval 두 문단으로 구분하여 작성)

**Conflict of Interest (진하게, 12P)**

author A declares that he/she has no conflict of interest

author B declares that he/she has no conflict of interest

author C declares that he/she has no conflict of interest

(각각 저자 이름 꼭 명시)

**Ethical approval (진하게, 12P)**

(해당 사항 없는 경우)

This article does not contain any studies with human participants or animals performed by any of the authors.

(해당 실험을 진행 한 경우)

All human DNA samples were approved by the Institutional Review Board of the Wonkwang University. or

The experimental procedures followed the actual law of animal protection that was approved by the Animal Care Advisory Committee of Southwest University, China.

**References(양쪽정렬, 진하게, 12p)**

1. Viseras, C., Aguzzi, C., Cerezo, P. & Lopez-Galindo, A. Uses of clay minerals in semisolid health care and therapeutic products. *Applied Clay Sci* **36**:37-50 (2007).

(저자가 5명 이하일 경우 : 1, 2, 3, 4 & 5로 표시 / 5명 이상일 경우 : Viseras, C., *et al*.

저자. 제목. *저널명* **권수**:쪽수 (년도). (양쪽정렬, Times New Roman 12p))

**Table 1. (진하게, 12p)** cDNA Microarray results (Times New Roman 12p)

**Figure 1. (진하게, 12p)** cDNA Microarray results (Times New Roman 12p)

*P*<0.01 (*P* value는 대문자 기울임)

Table과 Figure는 원본을 요청 (가능한 PPT파일로, PDF파일 형식 안됨. 낮은 해상도의 Figure 안됨)