



**Ok Joon Kim**

**D.D.S., Ph.D.**

**Current appointment:**

Professor

**Institution/ University where currently appointed:**

Director, Department of oral pathology, Chonnam national university Pathologist,  
Chonnam University Hospital

**Areas of special interests:**

Photobiology

Cancer stem cell

Ok-Joon Kim is a dentist and Doctor in Dental Science. He graduated from school of dentistry, Chonnam National University in 1998, and got a Ph. D. degree in the same school in 2002. He is now an professor in school of dentistry and works as a pathologist in the Department of Pathology, Chonnam University Hospital. He is also served as a director of the Department of Oral Pathology. His research is focusing on photobiology, low level laser therapy, and photodynamic therapy. He has published more than 60 papers in these fields.

## Recent/ significant publications

1. Sanguisorba officinalis L. extracts activate Wnt/ $\beta$ -catenin pathway, and subsequently control adipo-osteogenic differentiation. *Biochem Bioph Res Co.* 2018; 504(1): 352-358
2. Red light-emitting diode irradiation regulates oxidative stress and inflammation through SPHK1/NF- $\kappa$ B activation in human keratinocytes. *J Photoch Photobio B.* 2018; 186: 31-40
3. Development of Novel Photosensitizer Using the Buddleja officinalis Extract for Head and Neck Cancer. *Evid-Based Compl Alt.* 2018; 1-10
4. The severity of periodontitis and metabolic syndrome in Korean population: The Dong-gu study. *J Periodontal Res.* 2018; 53(6): 362-368
5. Cell proliferation and migration mechanism of caffeoylserotonin and serotonin via serotonin 2B receptor in human keratinocyte HaCaT cells. *BMB Rep.* 2018; 51(4): 188-193
6. Feruloylserotonin inhibits hydrogen peroxide-induced melanogenesis and apoptosis in B16F10 and SK-Mel-2 melanoma cells. *Biochem Bioph Res Co.* 2017; 491(4): 973-979
7. Real-time in vivo imaging of metastatic bone tumors with a targeted near-infrared fluorophore. *Oncotarget.* 2017; 8(39): 65770-65777
8. Anti-cancer effect of Atractylodes macrocephala extract by double induction of apoptotic and autophagic cell death in head and neck cancer cells. *Bangl J Phamacol.* 2017; 12(2): 140-146
9. Ectopic overexpression of CD133 in HNSCC makes it resistant to commonly used chemotherapeutics. *Tumor Biol.* 2017; 39(4): 1-12
10. Association between cancer stem cell-like properties and epithelial-to-mesenchymal transition in primary and secondary cancer cells. *Int J Oncol.* 2016; 49(3): 991-1000
11. Cloning and Expression of Recombinant Macrophage-colony Stimulating Factor - A Progressive Strategy for Economical Production. *Biotechnol Bioproc E.* 2016; 21(3): 446-452
12. Digital panoramic radiographs are useful for diagnosis of osteoporosis in Koreanmenopausal women. *Gerodontology.* 2016; 33(2): 185-192
13. Effects of HSP27 downregulation on PDT resistance through PDT-induced autophagy in head and neck cancer cells. *Oncol Rep.* 2016; 35(4); 2237-2245
14. Periodontal disease associated with blood glucose levels in urban Koreans aged 50 years and older: the Dong-gu study. *Gerodontology.* 2015; 32(4): 267-273
15. Effects of Light-Emitting Diode Irradiation on RANKL-Induced Osteoclastogenesis. *LaserSurg Med.* 2015; 47(9): 745-755
16. Effects of the antimicrobial peptides cathelicidin (LL-37) on immortalized gingival fibroblasts. *Lasers Med Sci.* 2015; 30(8): 2049-2057
17. Anti-inflammatory effects of zinc in PMA-treated human gingival fibroblast cells. *Med Oral Patol Oral Cir Bucal.* 2015; 20(2): e180–e187
18. Anti-inflammatory effect of 635 nm irradiations on in vitro direct/indirect irradiation model. *J Oral Pathol Med.* 2015; 44(2):94-102
19. The association between periodontal disease, tooth loss and bone mineral density in a Korean population. *J Clin Periodontol.* 2014; 41(12):1139-1144.
20. Expression of cancer stem cell marker during 4-nitroquinoline 1-oxide-induced rat tongue carcinogenesis. *J Mol Histol.* 2014; 45:653-663.
21. Photodynamic therapy (PDT) resistance by PARP1 regulation on PDT-induced apoptosis with autophagy in head and neck cancer cells. *J Oral Pathol Med.* 2014;

43(9):675-684.

22. Relationship between periodontal disease and subclinical atherosclerosis: The Donggustudy. *J Clin Periodontol.* 2014; 41(3):262-268.
23. In Vitro Bactericidal Effects of 625, 525, and 425nm Wavelength (Red, Green, and Blue)Light-Emitting Diode Irradiation. *Photomed Laser Surg.* 2013; 31(11): 554–562.
24. Effect of 635 nm irradiation on high glucose-boosted inflammatory responses in LPS-induced MC3T3-E1 cells. *Laser Med Sci.* 2013; 28(3): 717-724.
25. Modulation of Lipopolysaccharide-Induced NF- $\kappa$ B Signaling Pathway by 635 nmIrradiation via Heat Shock Protein 27 in Human Gingival Fibroblast Cells. *PhotochemPhotobiol.* 2013; 89(1): 199-207.
26. Down-regulation of heat-shock protein 27-induced resistance to photodynamic therapyin oral cancer cells. *J Oral Pathol Med.* 2013; 42(1): 9-16.
27. Inflammatory cytokines are suppressed by light-emitting diode irradiation of P. gingivalisLPS-treated human gingival fibroblasts: inflammatory cytokine changes by LEDirradiation. *Lasers Med Sci.* 2012: 27(2); 459-467.