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[ADVANCED](#)[TOP](#) > [Available Issues](#) > [Table of Contents](#) > [Abstract](#)

ONLINE ISSN : 1880-313X

PRINT ISSN : 0388-6107

Biomedical Research

Vol. 25 (2004) , No. 2 April pp.105-108

[\[PDF \(1614K\)\]](#) [\[References\]](#)**Transformation of hydroxyapatite surface characteristics during diode laser irradiation**

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(Received January 30, 2004)

(Accepted February 28, 2004)

ABSTRACT

The purpose of this study was to further evaluate the effects of diode laser irradiation on the surface of hydroxyapatite (HA). For laser irradiation of the HA plate, the distance from the HA plate to the tip of the probe was 50 mm, and the irradiation time was 60 seconds at a power output of 10 watts with a continuous wave. Laser-irradiated HA plates were smoother and the ridges were larger than non-laser irradiated HA. Laser irradiation has a tendency to change zeta potential, and has a possibility to control the adsorption of bacteria.



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To cite this article:

Kenichi MATSUZAKA, Nahoko MIYAKE, Ken TAKAHASHI, Kazumasa OHTA, Masayuki HATTORI, Takashi MURAMATSU, Toru SATO, Yutaka ODA, Masaki SHIMONO and Tatsuya ISHIKAWA; "Transformation of hydroxyapatite surface characteristics during diode laser irradiation", *Biomedical Research*, Vol. **25**, pp.105-108 (2004) .

doi:10.2220/biomedres.25.105

JOI JST.JSTAGE/biomedres/25.105

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