

# Rapid bone induction of rat compact bone using ultrasonic irradiation and acidic electrolyzed water

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学位論文審査並びに最終試験結果報告書

大学院歯学研究科長 殿

主査 永易裕樹

副査 入江一元

副査 志茂剛



今般 SHAKYA Mamata にかかわる学位論文審査並びに最終試験を行い下記の結果を得たので報告する。

記

1 学位論文題目

Rapid bone induction of rat compact bone using ultrasonic irradiation and acidic electrolyzed water

2 論文要旨 別添

3 学位論文審査の要旨 別添（様式第12号）

4 最終試験の要旨 別添（様式第13号）

以上の結果 SHAKYA Mamata は博士（歯学）の学位を授与する資格のあるものと判定する。

学位論文審査の要旨

主査 永易裕樹  
副査 入江一元  
副査 志茂剛



氏 名 SHAKYA Mamata

学位論文題目 Rapid bone induction of rat compact bone using ultrasonic irradiation and acidic electrolyzed water

以下本文（15行目から1000字以内）

This manuscript presents very interesting data on rapid bone induction of rat compact bone treated with acidic electrolyzed water and combined with ultrasonic irradiation. Mechanochemical treatment of compact bone contribute to improve the bone surface area and induce rapid bone formation. This is an interesting observation that inducing new bone provide a mature formation. Also she published the paper such as “Rapid Bone Induction of Cortical Bone Treated with Ultrasonic Demineralization in Acidic Electrolyzed Water. Journal of Hard Tissue Biology 27:269-271, 2018.” This paper has been revised well. This study represents a effort and it deserve to be pubrished, as these data will continue to be a interesting resource into the future.

最終試験（学力の確認）の要旨

主査 永易裕樹

副査 入江一元

副査 志茂剛



氏 名 SHAKYA Mamata

The doctoral thesis committee has been conducting the examination in the three months from Nov 2018 to Jan 2019. At the time of examination, we confirmed and evaluated the applicant's academic ability by question - answering in the content of the paper. All examiner suggested the improvement points of the manuscript. In the course of the paper review, Dr. Mamata fully grasped the research content of herself, and in the future, and was also aware of the problems and the contents to be developed in the future. As a result, she has sufficient knowledge on the thesis dissertation and ability to continue the research and judged to be awarded a doctorate (dentistry) degree.