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INSTITUTE OF SCIENCE AND TECHNOLOGY

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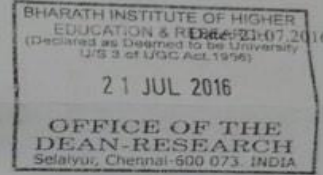
Bharath UNIVERSITY
பாரத் பல்கலைக்கழகம்
BHARATH INSTITUTE OF HIGHER EDUCATION AND RESEARCH
(Declared as Deemed to be University, u/s 3 of the UGC Act, 1956)

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Ref: BU/Ph.D./P-1/17

To

Dr. R. Mensudar
Professor
Conservative Dentistry
Sree Balaji Dental College and Hospital,
Pallikaranai, Chennai



Sir / Madam,

Sub: Ph.D. Programme – Provisional Registration – Orders – Issued.

I am directed to inform you that **S.RAJAKUMARI** is permitted to register provisionally for the Ph.D. Programme on Part – Time (Internal) basis under the Faculty of **DENTAL SCIENCE** in this University under your guidance with effect from July 2016.

You are requested to convene a Doctoral Committee meeting * in the University Campus with the following two experts and HOD / Internal Coordinator, strictly on or before **05.08.2016** and submit the Minutes of Doctoral Committee meeting, prescribing the course work to this office, which will facilitate to undergo course work at the earliest.

1. **Dr. B.Thayumanavan / Professor & Head / Dept. of Oral Pathology / Sathyabama Dental College / Chennai**
2. **Dr. P.Tamilselvi / Professor / Dept. of Anatomy / Sathyabama Dental College / Chennai**

The research scholar may also be directed to submit the Registration / Enrolment form and the first DC meeting fee of Rs. 10,000/- (Ten Thousand Only) to be paid before the day of the Doctoral Committee meeting, failing which, it will be construed that the research scholar has not completed the Ph.D. admission formalities in full and the provisional registration granted to him / her in the letter is likely to be cancelled.

Source of Support: Nil

Antioxidants *In Vitro* is it a Need for Oral Precancerous Lesion

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Introduction

Oxidative stress which is considered as an imbalance of the body's ability to scavenge free radical species, (both reactive oxygen species [ROS] and reactive nitrogen species [RNS]) was found to be associated with cancer by several studies. Moreover, the development of cancer occurs through several steps involving initiation, promotion and progression. Premalignant lesions are the first clinically identified lesions of cancer. In the backdrop of increased prevalence of cancer, identification and management of premalignant stage seem to be important steps to prevent the development of cancer.

Antioxidants (AOs) are known to neutralize ROS and RNS by several mechanisms.^{1,2}

Hence, AO therapies are employed as evidence base medicine to patients who have propensities to have a future risk of cancer

An *in vitro* study to determine fracture resistance of tooth roots after different instrumentation techniques

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ABSTRACT

Aim: The aim was to study the influence of rotary and hand instruments techniques on the susceptibility of the root to fracture.

Materials and Methods: Forty extracted human maxillary permanent first and second molars without any defects were selected as sample. Teeth were randomly divided into four groups of ten teeth in each group. Palatal canals were instrumented depending on the instrumentation techniques used in the groups. Group 1: 0.02 taper K-files and Gates Glidden drills (Mani Inc., Japan); group 2: Hand ProTaper (Dentsply-Maillefer, France); group 3: Rotary ProTaper (Dentsply-Maillefer, France); and group 4: Endowave (J. Morita, Japan). After instrumentation, palatal roots were resected and apical 7 mm sectionally obturated. Obturated roots were embedded in putty impression material and mounted on Universal testing machine (Lloyd instruments, UK). Vertical load was applied by means of a spreader inserted into the canal and load at fracture was recorded for each tooth. Fractured roots were embedded in self-cure resin, sectioned horizontally, and viewed under operating microscope to determine the direction of fracture line: Maximum and