

CELEBRATING
COMMERCIALISATION
YEAR 2014

iiindex 2014

AN INTERNATIONAL EXPOSITION ON RESEARCH AND INNOVATION

invention
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exposition 2014

INNOVATEUR
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2014

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UNIVERSITI TEKNOLOGI MARA
MALAYSIA

*Bridging
the valley of death :
advancing the
commercialisation
of research*

RESEARCH BOOK

iiindex2014

AN INTERNATIONAL EXPOSITION ON RESEARCH AND INNOVATION

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FOREWORD

The Honourable Minister of Science, Technology and Innovation (MOSTI) has launched 2014 as Malaysia Commercialisation Year 2014 (MCY2014) with the theme Science Technology and Innovation (STI) for Wealth Creation. In line with this theme, Invention, Innovation, Design & Exposition 2014 (iidex2014) is an annual exposition organized by UiTM and is the ultimate platform to highlight and commercialise new inventions and innovations. Researchers and inventors will exhibit their products which cater to the needs and wants of the community and the country.

The iidex2014 creates a new dimension by fusing two competitive concepts, a competition among innovative products and a competition to invite Innovateur Wannabes to perform live pitching of their products to the audience. The iidex2014 focuses on comprehensive commercialization and creating opportunities for entrepreneurs to carry out R&D as well as to provide avenue to commercialise their products. Through expositions such as iidex2014, MOSTI hopes to inculcate the culture of commercialisation of new technology designed and created by Malaysians.

I wish to congratulate all the participants of the iidex2014 and this is the opportunity for all researchers to show their ideas and exhibits their products and creativity. Apart from showcasing their products, innovators will have the opportunity to provide a window to the industry for business matching during the exposition.

Tan Sri Dato' Sri Sallehuddin Mohamed
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DEVELOPMENT OF DIAGNOSTIC KIT FOR HUMAN ORAL SQUAMOUS CELL CARCINOMA

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Introduction: p53 gene mutations observed at about 50 to 60 % in oral squamous cell carcinoma (OSCC). Problem Statement: The common mutation sites of p53 gene are still in controversy. Different techniques give different results and even using the same technique the results are different. Recently, Multiplex Ligation-Probe Amplification (MLPA) has been shown to be a reliable and efficient technique for the detection of mutation. This method was consistent with cytogenetic and FISH (Fluorescence in situ hybridization) methods.

MANDIBULAR OVERDENTURES USING SHORT IMPLANTS: NEOTERIC TREATMENT MODALITY TO REDUCE RESIDUAL RIDGE RESORPTION

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Excessive load and possibly altered mechanical stresses negatively impact the alveolar ridge, prostheses and implant components when mandibular two-implant overdentures are used to treat completely edentulous patients. The debilitating effect for patients, which includes excessive residual ridge reduction in the posterior region of the mandible, has been well established. This project aims to investigate the effect of a new treatment modality which is the placement of additional short implants at the distal mandibular alveolar ridge to help hold the bone in this region and distribute masticatory forces over a larger area.