Annual Report of Research & Development (R&D)
2004

SCHOOL OF DENTAL SCIENCES (PPSG)
HEALTH CAMPUS

Prepared by: A.B. Hakim
A. Report of PPSG Research Committee

Three meetings were held throughout the year. The details of meeting were as follows:

   a. Dr. Lin Naing @ Mohd. Ayub Sadiq. Development of Malaysian biomedical literature database with a search engine (Index Medicus Malaysia).

ii) 2 (2003) 17 June 2004. One proposal was discussed.

iii) 3 (2003) 2 November 2004. One proposal was discussed.

Prof. Rusli Nordin was on sabbatical leave (January 2004 – June 2005) and Prof. Ab. Rani Samsudin replaced him as Chairman.
## B. List of Grants Approved in 2004

<table>
<thead>
<tr>
<th>No.</th>
<th>Research Title</th>
<th>Key Researcher</th>
<th>Budget (RM)</th>
<th>Date of Approval</th>
<th>Type of Grant</th>
<th>Research Thrust</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A Pilot Study of Development of Permanent Teeth in Malay Children Between 7 - 15 Years</td>
<td>Dr. Shani Ann Mani</td>
<td>9,987.00</td>
<td>24/08/04</td>
<td>USM Short Term</td>
<td>Craniofacial Biology</td>
</tr>
<tr>
<td>2</td>
<td>A study to investigate the association between maternal periodontis and low birth weight among the Malay population in Kota Bharu, Kelantan</td>
<td>Dr. Norkhafizah Saddki</td>
<td>8,173.00</td>
<td>24/08/04</td>
<td>USM Short Term</td>
<td>Craniofacial Biology</td>
</tr>
<tr>
<td>3</td>
<td>An in vitro study on the sealing ability of nano hydroxyapatite and standard hydroxyapatite on dentinal tubules</td>
<td>Dr. Sam'an Malik Masudi</td>
<td>10,000.00</td>
<td>31/03/04</td>
<td>USM Short Term</td>
<td>Dental Biomaterial</td>
</tr>
<tr>
<td>4</td>
<td>Dentofacial features of Obstructive Sleep Apnoea Syndrome (OSAS) among army personnel based in Kelantan</td>
<td>Dr. Hasnah Hashim</td>
<td>8,304.00</td>
<td>24/08/04</td>
<td>USM Short Term</td>
<td>Craniofacial Biology</td>
</tr>
<tr>
<td>5</td>
<td>Detection of high risk Human Papilloma Virus (HPV) types 16 and 18 in the oral squamous cell carcinomas affecting Malaysian population using PCR and the correlation between HPV infection and expressions of Ki 67 (MIB 1) and p53 protein</td>
<td>Dr. Rajan Saini</td>
<td>4,055.00</td>
<td>24/08/04</td>
<td>USM Short Term</td>
<td>Oral Tumour</td>
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<tr>
<td>6</td>
<td>In vivo chromosome aberration test for hydroxyapatite in mice</td>
<td>Dr. T.P. Kannan</td>
<td>9,000.00</td>
<td>31/03/04</td>
<td>USM Short Term</td>
<td>Dental Biomaterial</td>
</tr>
<tr>
<td>7</td>
<td>Nasalance score in normal children and in surgically repaired cleft lip and palate children speaking the Malay language</td>
<td>Dr. Norsila Abd. Wahab</td>
<td>3,000.00</td>
<td>31/03/04</td>
<td>USM Short Term</td>
<td>Craniofacial Biology</td>
</tr>
<tr>
<td>8</td>
<td>Noise induced hearing loss among sawmill workers</td>
<td>Dr. Mohd. Ayub Sadiq</td>
<td>4,800.00</td>
<td>24/08/04</td>
<td>USM Short Term</td>
<td>Oral Diseases</td>
</tr>
<tr>
<td>9</td>
<td>Psychosocial impact on the parents of cleft lip and palate patients attending Combined Clinic at Dental Clinic, Jalan Mahmood, Kota Bharu, Kelantan</td>
<td>Dr. Abdul Rashid Ismail</td>
<td>3,310.00</td>
<td>24/08/04</td>
<td>USM Short Term</td>
<td>Craniofacial Biology</td>
</tr>
<tr>
<td>10</td>
<td>Studies to investigate the prevalence of estrogen receptor polymorphism &amp; its association with alveolar bone loss &amp; early tooth loss in postmenopausal women</td>
<td>Dr. Asia Rehman</td>
<td>10,000.00</td>
<td>31/03/04</td>
<td>USM Short Term</td>
<td>Craniofacial Biology</td>
</tr>
<tr>
<td>11</td>
<td>The effects of acute exercise in the levels of salivary nitric oxide</td>
<td>Dr. Nizam Abdullah</td>
<td>8,000.00</td>
<td>31/03/04</td>
<td>USM Short Term</td>
<td>Oral Diseases</td>
</tr>
</tbody>
</table>

Total value of grant: **RM 78,629.00**
C. R&D Activities in 2004

1) Talk by USM Visiting Professor, Prof. G.D. Singh. 10 January 2004.
   Venue: Universiti Malaya
   Organizer: Universiti Malaya & PPSG.

2) Managing Your Creative Efforts in R&D. 15 January 2004,
   Venue: USAINS
   Organizer: IADR Malaysian Section.

   Venue: Hotel Mutiara Merdeka, Pekanbaru, Riau
   Organizer: Asosiasi 5 Media, Pekanbaru.

4) Write your papers and get them published!. 22 February 2004.
   Venue: Faculty of Dentistry, Universiti Malaya
   Organizer: IADR Malaysian Section.

5) Medical Writing Course. 9-11 March 2004.
   Venue: PPSG, USM
   Organizer: Clinical Research Platform & Novo Nordisk.

   Venue: PPSG, USM
   Organizer: IPS & INFORMM.

7) 3D Digital Face Imaging Seminar. 27 April 2004.
   Venue: Armada Hotel, Petaling Jaya
   Organizer: Cybron Technology (M) Sdn. Bhd.

   Venue: PPSG
   Organizer: PPSG.

   Venue: Midvalley Megamall, KL
   Organizer: MINDS.

    Venue: School of Medical Sciences, USM
    Organizer: School of Medical Sciences, USM.

11) USM-Cuba International Scientific Colloquium. 31 May 2004
    Venue: USM Health Campus
    Organizer: USM.

    Venue: Pusat Sains Negara
    Organizer: Pusat Sains Negara.

    Venue: Swiss-Inn, Sungai Petani, Kedah
    Organizer: Asian Institute of Medicine, Science & Technology (AIMST).
   **Venue:** Craniofacial Laboratory, PPSG
   **Organizer:** PPSG.

   **Venue:** PJ Hilton
   **Organizer:** Dept. of Biomedical Engineering, Universiti Malaya.

   **Venue:** PWTC, KL
   **Organizer:** Protemp Exhibitions Sdn. Bhd.

   **Venue:** Sofitel Palm Resort, Senai, JB
   **Organizer:** National Craniofacial Cluster (SIRIM-UTM-USM)

18) Workshop on Basic Statistics for Oral Health Professionals. 4 - 6 October 2004.
   **Venue:** PPSG
   **Organizer:** PPSG

   **Venue:** Shahzan Inn, Bukit Fraser, Pahang
   **Organizer:** Angkatan Senifoto Negeri Selangor (ASFONS)

   **Venue:** PPSG
   **Organizer:** National Craniofacial Cluster (SIRIM-UTM-USM)
D. List of Publications in 2004


13 Huda BZ, Rusli BN, Naing L, Winn T, Rampal KG and Tengku MA. Job dissatisfaction in lecturers in School of Medical Sciences, Universiti Sains Malaysia and Faculty of Medicine, Universiti Kebangsaan Malaysia. The Medical Journal of Malaysia 2004; 59(2): 242-251.


16 KA Salihi, AR Samsudin. Bone marrow mesenchymal stem cell differentiation and proliferation on the surface of coral implant. The Medical Journal of Malaysia 2004 (supplement B); 59: 45-46.


18 R Philip, S Dinsuhaimi, S Rosdan, AR Samsudin, O Shamsuria, S Mohd Zali, SMS Lamalulail. In vitro evaluation of the growth enhancing or cytotoxic effect of Sticophus Species (Gamat) on established human fibroblast cell lines and antimicrobial activity. The Medical Journal of Malaysia 2004 (supplement B); 59: 95-96.


30 A Pohchi, AH Suzina, AR Samsudin, KA Al Salihi. *Comparative study between dense and porous hydroxyapatite using light and scanning electron microscopy.* The Medical Journal of Malaysia 2004 (Supplement B); 59: 151-152.

31 A Azlina, AR Samsudin. *Gene expression screening of human cell line exposed to locally produced biomaterial.* The Medical Journal of Malaysia 2004 (supplement B); 59: 166-167.


35 Norlen BM, Rusli BN. *Effects of very low blood lead levels on neurobehavioral performances of male policemen in Kota Bharu, Kelantan.* The Malaysian Journal of Medical Sciences 2004; 3-9.


39 Sosroseno W. L-arginine augments *Porphyromonas gingivalis*-induced phagocytosis of a murine macrophage-like RAW 264.7 cell line. Immunopharmacol Immunotoxicol 2004; 26:309-313
E. List of Awards Won in 2004

1) MOSTI 2004 Gold Award “Radio-Opaque Denture Base Material ‘DENTAC’ PAR” – Dr. Nizam Abdullah, Prof. Dr. Ab. Rani Samsudin, Dr. Karima Akool Menkhi Al-Salihi.

2) IENA 2004 Gold Award “REKAGRAF-Reformulated Calcium Phosphate for Human Tissue Transplantation (Synthetic Bone)” – Prof. Radzali Othman, Prof. Dr. Ab. Rani Samsudin, Assoc. Prof. Zainal Anifin Ahmad, Assoc. Prof. Ahmad Fauzi Mohd Noor, Dr. Nizam Abdullah, Dr. Rosdan Salim, Dr. Suzina Sheikh Ab. Hamid, Ms. Nor Shamsuria Omar.
