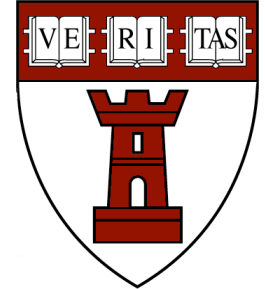


# HSDM OFFICE OF RESEARCH BULLETIN



February 1, 2004

## RESEARCH GRANT HIGHLIGHTS:

Congratulations to **John Da Silva, DMD, MPH, ScM**, Medical Director of the Harvard Dental Center and Director of Advanced Graduate Education for his recently-funded project entitled, **A Longitudinal Assessment of Dental Students' Knowledge and Attitudes Regarding Substance Abuse Screening and Treatment.** Dr. Da Silva is the Principal Investigator on this project which is funded by Health Resources and Services Administration of the U.S. Department of Health and Human Services.

Congratulations to **Helen Youm** (Class of 2006) for her recent grant from the American Dental Association Samuel Harris Fund For Children's Dental Health Dentistry Grant Program. Helen's project is entitled, **Project HANDS to Serve Manville School At-Risk Youth.** Project HANDS is a community service effort by 1<sup>st</sup> and 2<sup>nd</sup> year students at Harvard Dental and Medical School to promote and educate at-risk youth about dental and oral healthcare and hygiene. The Manville School is part of Judge Baker Children's Center, located in the Longwood Medical Area and focuses on providing special education services for children between 5-15. HANDS members will conduct a 4-week educational course to promote oral healthcare and hygiene. Helen is working with **Drs. Jarshen Lin and Linda Nelson** as her HSDM Faculty Mentors.

## IADR ABSTRACTS: HONOLULU, MARCH 2004

Role of K ATP Channels in Development of Left-Right Asymmetry CHEN, LEVIN

Frequency Analysis of Competence Genes of Streptococcus mutans BANG, KLEIN, GONCALVES, FLORIO, SMITH, MATTOS-GRANER

Expression of Antibacterial Peptides in Periodontal Disease HOSOKAWA, HOSOKAWA, GONCALVES, TAUBMAN, KARIMBUX, KOMATSUZAWA, KAWAI

Coordinated bioengineering of teeth and bone segments YOUNG, ABUKAWA, TROULIS, KABAN, VACANTI, BARTLETT, YELICK

Self-bonding Polymers as Surface-coatings of Restorative Resins to Prevent Staining PARK, NAGAI, WEBER

Craniofacial Anthropometrics and Perceived Personality Attributes GIDDON, SCHACK, ANDERSON

Influence of Vertical Dimension on Perceived Profile Attractiveness and Protrusiveness ANDERSON, RASOULINEJAD, ALEXANDER, GIDDON

Alk8: Its Role in Craniofacial Patterning and Programmed Cell Death PAYNE-FERREIRA, YELICK

Development of a Human Oral Microbe Identification Microarray BOCHES, LEE, PASTER, DEWHIRST

Optical Effects of Resin Cements on Ceramic Restorations CHANG, NAGAI, SALCEDO, WEBER

Diagnostic protocol for intimate partner violence: Comparison of two questionnaires JO, PERCIACCANTE, DODSON

Correlation of Bleaching Color Changes and Tooth Sensitivity with 10%-CP FERGUSON, NAGAI, ISHIBASHI, TERUI, WEBER

Have the patterns of pediatric maxillofacial infections changed over time? KRISHNAN, PERCIACCANTE, DODSON

Zebrafish acr2a and acr2b exhibit distinct roles in craniofacial development ALBERTSON, PAYNE-FERREIRA, YELICK

Comparison of Pediatric Facial Infections in Two Distinct Patient Populations PERCIACCANTE, QUICK, KRISHNAN, DODSON

(Continued):

**RECENT PUBLICATIONS:** Please note, if we have not captured your recent publications, please email (dawn\_decosta@hsdm.harvard.edu). You can be assured they will be listed in the next Bulletin. Thanks!

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Dodson TB, Caruso PA, Nielsen GP. Case records of the Massachusetts General Hospital. Weekly clinicopathological exercises. Case 2-2004. A 32-year-old man with pain and swelling of the jaw. *N Engl J Med* 2004; 350(3): 267-75.

Leonardi R, Peck S, Caltabiano M, Barbato E. Palatally displaced canine anomaly in monozygotic twins. *Angle Orthod* 2003;73:466-470.

Marneros AG, Keene DR, Hansen U, Fukai N, Moulton K, Goletz PL, Moiseyev G, Pawlyk BS, Haifter W, Dong S, Shibata M, Li T, Crouch RK, Bruckner P, Olsen BR. Collagen XVIII/endostatin is essential for vision and retinal pigment epithelial function. *EMBO J* 2004; 23(1): 89-99.

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Miao D, He B, Lanske B, Bai XY, Tong XK, Hendy GN, Goltzman D, Karaplis AC. Skeletal abnormalities in Pth-null mice are influenced by dietary calcium. *Endocrinology* 2003, Dec 30.

Nelson KE, Fleischmann RD, DeBoy RT, Paulsen IT, Fouts DE, Eisen JA, Daugherty SC, Dodson RJ, Durkin AS, Gwinn M, Haft DH, Kolonay JF, Nelson WC, Mason T, Tallon L, Gray J, Granger D, Tettelin H, Dong H, Galvin JL, Duncan MJ, Dewhirst FE, Fraser CM. Complete Genome Sequence of the Oral Pathogenic Bacterium *Porphyromonas gingivalis* Strain W83. *J Bacteriol* 2004; 186(2): 593.

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Sasaki H, Balto K, Kawashima N, Eastcott J, Hoshino K, Akira S, Stashenko P. Gamma Interferon (IFN-gamma) and IFN-gamma-Inducing Cytokines Interleukin-12 (IL-12) and IL-18 Do Not Augment Infection-Stimulated Bone Resorption In Vivo. *Clin Diagn Lab Immunol* 2004; 11(1): 106-110.

Scully C, Epstein J, Sonis S. Oral mucositis: A challenging complication of radiotherapy, chemotherapy, and radiochemotherapy. Part 2: Diagnosis and management of mucositis. *Head Neck* 2004; 26(1): 77-84.

Tomczak KK, Mannescu VD, Ramoni MF, Sanoudou D, Montanaro F, Han M, Kunkel LM, Kohane IS, Beggs AH. Relate Expression profiling and identification of novel genes involved in myogenic differentiation. *FASEB J* 2003;Dec.

Valverde P, Kawai T, Taubman M. Selective blockade of voltage-gated potassium channels reduces inflammatory bone resorption in experimental periodontal disease. *J Bone and Mineral Research* 2004; 19(1): 155-164.

Comparing Computed Tomography and Panoramic Radiographs in Diagnosing Mandible Fractures STEED, PERCIACCANTE, LOSKEN, FOUNTAIN, TYRONE, DODSON

Localized aggressive periodontitis is linked to human chromosome 1q25 LI, XU, HASTURK, KANTARCI, WU, DEPALMA, VAN DYKE

Shade Selection by Dental Students - Factor of Clinical Experience SARAIYA, NAGAI, WEBER

Evaluation of Accuracy of A Newly Developed Dental Multi-Spectrophotometer NAGAI, NATHANSON, WEBER, KOMIYA, WADA, SATO, TERUI, ISHIBASHI

Variations of Surgical Procedures for TMD: Analysis of utilization patterns HAYES, CHEW, ANTCZAK, BOUCKOMS, WHITE, MEHTA, LAU

Predictors of Performance on Part 1 of the NBDE VINCENT, SUSARLA, HOWELL, KARIMBUX

Using Hospital Databases to Examine TMD Utilization Patterns: Methodological Issues CHEW, HAYES, ANTCZAK-BOUCKOMS, MEHTA, WHITE, JOSEPH LAU

Two-Year Retrospective Evaluation of a Unique Restoration for Single Implants URDANETA, MARINCOLA, CHUANG

Preliminary Evaluation of the Effect of Crown on Gingival Color NATHANSON, NAGAI, PO, YAMAMOTO, WEBER

Prognostic Factors in Oral Cancer: Application of AFT Survival Methods CHUANG, DODSON, ZAVRAS

Predicting Operative Time for Third Molar Surgery: A Validated Model SUSARLA, DODSON

Sex-Related Differences in Gene Expression in Salivary Glands of Mice TREISTER, RICHARDS, JENSEN, SULLIVAN

Do Demographic Factors Predict Caries in the Primary Dentition? KIM, HAYES, DOUGLASS

Bacterial Adhesion on Integrated Abutment Crowns TM. In Vivo Study (II) MAURO MARINCOLA, DIBART, WARBINGTON, SKOBE, URDANETA, CHUANG

Color Distribution of Marginal and Attached Gingivae ODAIRA, NAGAI, NATHANSON, TERUI, ISHIBASHI

Effect of *Porphyromonas gingivalis* ceramides on fibroblast gene expression ANDERSON, BOCHES, DEWHIRST, BOJARSKI, NICHOLS

# **2004 HSDM DEAN'S SCHOLARS PROGRAM: REQUEST FOR APPLICATIONS DUE MARCH 1, 2004**

## **B A C K G R O U N D :**

HSDM has a distinguished history in the preparation of individuals to meet the national and international need for trained researchers, educators, administrators and public policy advisors. Our graduates currently serve in a number of capacities in academic life including full-time researchers and teachers as well as deans and department chairs. Currently, the shortage of individuals who choose full time careers in dental education has resulted in over 350 vacant positions in dental schools nationwide. To assure the success of the next generation of individuals interested in full time academic careers, HSDM has established the Dean's Scholars Program to provide guided research and academic experiences during the early stages of an academic career.

## **P R O G R A M :**

The Dean's Scholars Program will provide financial support for individuals during a postgraduate year at the Harvard School of Dental Medicine. The support, in the form of a \$50,000 stipend will provide protected time for the individual to develop and refine the skills necessary for future success in academics and research. A typical program will consist of four days in research and research development, and one day in teaching, patient care or other related activities. The schedule will be flexible based on the career goals of the selected scholar. A mentor will be assigned to provide guidance for the individual's development in research including experience in the submission of grants and publications. Other mentors will oversee the development in educational pedagogy and practice. Applicants may apply for a second year of funding via a competitive application process. If you are seeking a second year of funding, your Mentor's Lab must commit 50% of your funding for that second year.

## **A P P L I C A T I O N :**

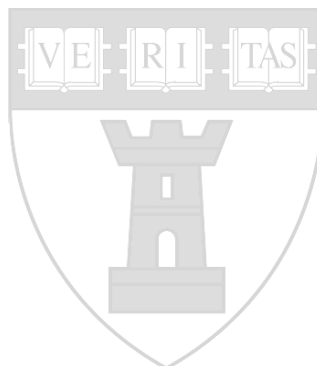
Interested individuals should apply to the program based on their commitment to a career in full-time academics and research. Applications must include a letter of intent, CV, and a brief 2-3 page proposal outlining a research project. Applications must be accompanied by 2 letters of support from faculty members and mentor(s) familiar with the candidate's previous academic/research performance and their potential for success in an academic career. **Letters of application should be sent to Dawn DeCosta no later than March 1, 2004.**

**To learn more about research activities at HSDM, have questions, comments, and/or suggestions for this Bulletin, please contact us, or visit the HSDM website at:**

<http://www.hsdm.harvard.edu/asp-tml/research.html>

Dawn M. DeCosta  
*Assistant Director of Research*  
HSDM Office of Research  
dawn\_decosta@hsdm.harvard.edu  
617.432.1121

Bjorn R. Olsen, MD, PhD  
*Acting Director of Research*  
HSDM Office of Research  
bjorn\_olsen@hms.harvard.edu  
617.432.1874



## **STOP SMOKING!!!**

The Tobacco Dependence Research Group at HSDM is currently recruiting female smokers for the following study:

### **STOP SMOKING THROUGH EXERCISE AND PATCH.**

The brochure is available at [www.hsdm.harvard.edu](http://www.hsdm.harvard.edu)  
**You may also call  
1-800-503-STEP.**