



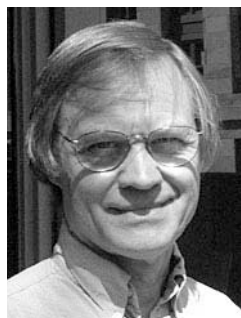
# Harvard School of Dental Medicine OFFICE OF RESEARCH BULLETIN

September/October 2006



## ново nordisk fonden

### BJORN R. OLSEN AWARDED THE 2006 H.C. JACOBÆUS GRANT



Bjorn R. Olsen, MD, PhD received a grant to present as the guest H.C. Jacobæus lecturer. These lectures are organized every year since 1959 by the Board of the H.C. Jacobæus' Forelæsnings Foundation. The objective of the The H.C. Jacobæus grant is to host one or more annual lectures by guest lecturers. The lectures are held, if at all possible, in Scandinavian university towns or other venues in Europe associated with medical research. The topics of the lectures should fall within the fields of physiology or endocrinology.

## IMPORTANT STUDENT DEADLINES:

**October 12, 2006**

DMSc Students graduating in 2008 must submit the Approval of Thesis Advisory Committee Form to the Office of Research. \*

**October 15, 2006**

MMSc Students graduating in 2008 must submit their NIH-formatted proposal to the Office of Research. \*

\* The HSDM Office of Research has implemented new research requirements for MMSc students who matriculated on or after July 2005. In lieu of a traditional thesis defense, MMSc students are now required to write and be examined on an NIH-formatted proposal. This does not apply to DMSc students. Please contact the Office of Research with questions, or to obtain for further information.

## HSDM GRAND ROUNDS:

**October 12, 2006**

**ATHANASIOS ZAVRAS, DDS, DMSC**

*Assistant Professor, Oral Health Policy & Epidemiology*

Bisphosphonates and Osteonecrosis of the Jaw: Evidence from Population-Based Analyses in the US

**February 9, 2007**

**MATTHEW WARMAN, MD**

*Director, Orthopedic Research at Children's Hospital Boston*

**April 16, 2007**

**STEPHEN M. KRANE, MD**

*Persis, Cyrus, Marlow B Harrison Professor of Medicine  
MGH Division of Rheumatology, Allergy and Immunology*



# PUBLICATIONS

- Abe Y, Chen W, Huang W, Nishino M, Li YP. CNBP regulates forebrain formation at organogenesis stage in chick embryos. *Dev Biology* 2006 Jul 1;295(1):116-27.
- Abukawa H, Kaban LB, Williams WB, Terada S, Vacanti JP, Troulis MJ. Effect of interferon-alpha-2b on porcine mesenchymal stem cells. *J Oral Maxillofac Surgery* 2006 Aug;64(8):1214-20.
- Chang B, Wright RF. A solid bar splint for open-tray impression technique. *J Prosthet Dentistry* 2006;96:143-4.
- Chen H, Yong W, Ren S, Shen W, He Y, Cox KA, Zhu W, Li W, Soonpaa M, Payne RM, Franco D, Field LJ, Rosen V, Wang Y, Shou W. Overexpression of bone morphogenetic protein 10 in myocardium disrupts cardiac postnatal hypertrophic growth. *J Biological Chemistry* 2006 Sep 15;281(37):27481-91.
- Chima KK, Seldin EB, Dodson TB. Comparison of wound management methods after removal of maxillofacial osseous lesions. *J Oral Maxillofac Surgery* 2006 Sep;64(9):1398-403.
- Donoff RB. It is time for a new gies report. *J Dental Education* 2006 Aug;70(8):809-19.
- Garib DG, Peck S. Extreme variations in the shape of mandibular premolars. *Am J Orthod Dentofacial Orthop.* 2006 Sep;130(3):317-23.
- Giddon DB. What's wrong with 'oral physician'? *AGD Impact* 2006;July 10.
- Haffajee AD, Teles RP, Socransky SS. Association of *Eubacterium nodatum* and *Treponema denticola* with human periodontitis lesions. *Oral Microbiol Immunology* 2006 Oct;21(5):269-82.
- Heckmann SM, Linke JJ, Graef F, Foitzik Ch, Wichmann MG, Weber HP. Stress and inflammation as a detrimental combination for peri-implant bone loss. *J Dent Res.* 2006 Aug;85(8):711-6.
- Kawai T, Matsuyama T, Hosokawa Y, Makihira S, Seki M, Karimbux NY, Goncalves RB, Valverde P, Dibart S, Li YP, Miranda LA, Ernst CW, Izumi Y, Taubman MA. B and T lymphocytes are the primary sources of RANKL in the bone resorptive lesion of periodontal disease. *American Journal of Pathology* 2006 Sep;169(3):987-98.
- Lee K, Jeong J, Kwak I, Yu CT, Lanske B, Soegiarto DW, Toftgard R, Tsai MJ, Tsai S, Lydon JP, Demayo FJ. Indian hedgehog is a major mediator of progesterone signaling in the mouse uterus. *Nature Genetics* 2006 Sep 3.
- Margolis HC, Beniash E, Fowler CE. Role of macromolecular assembly of enamel matrix proteins in enamel formation. *Journal of Dental Research* 2006 Sep;85(9):775-93.
- Orsini MG, Huang GJ, Kiyak HA, Ramsay DS, Bollen AM, Anderson NK, Giddon DB. Methods to evaluate profile preferences for the anteroposterior position of the mandible. *Am J Orthod Dentofacial Orthop.* 2006 Sep;130(3):283-91.
- Park YS, Evans CA, Viana G, Anderson NK, Giddon DB. Profile preferences of Korean American orthodontic patients and orthodontists. *World J Orthod.* 2006 Fall;7(3):286-92.
- Simion M, Rocchietta I, Kim D, Nevins M, Fiorellini J. Vertical ridge augmentation by means of deproteinized bovine bone block and recombinant human platelet-derived growth factor-BB: A histologic study in a dog model *Int J Periodontics Restorative Dent* 2006;26:415-23.
- Sonis S, Haddad R, Posner M, Watkins B, Fey E, Morgan TV, Mookanamparambil L, Ramoni M. Gene expression changes in peripheral blood cells provide insight into the biological mechanisms associated with regimen-related toxicities in patients being treated for head and neck cancers. *Oral Oncology* 2006 Aug 18.
- Soukos NS, Chen PS, Morris JT, Ruggiero K, Abernethy AD, Som S, Foschi F, Doucette S, Luschke Bammann L, Fontana CR, Doukas AG, Stashenko PP. Photodynamic therapy for endodontic disinfection. *Journal of Endodontics* 2006 Oct;32(10):979-84.
- Treister NS, Richards SM, Rowley P, Jensen RV, Sullivan DA. Influence of testosterone on gene expression in the ovariectomized mouse submandibular gland. *European Journal of Oral Science* 2006 Aug;114(4):328-36.
- Weber HP, Kim DM, Ng MW, Hwang JW, Fiorellini JP. Peri-implant soft-tissue health surrounding cement- and screw-retained implant restorations: a multi-center, 3-year prospective study. *Clin Oral Implants Research* 2006 Aug;17(4):375-9.
- Yu Y, Fuhr J, Boye E, Gyorffy S, Soker S, Atala A, Mulliken JB, Bischoff J. Mesenchymal stem cells and adipogenesis in hemangioma involution. *Stem Cells.* 2006 Jun;24(6):1605-12.
- Zha Y, Le VT, Higami Y, Shimokawa I, Taguchi T, Razzaque MS. Life-long suppression of growth hormone-insulin-like growth factor-1 activity in genetically altered rats could prevent age-related renal damage. *Endocrinology.* 2006 Sep 7.

# GRANTS & AWARDS



## **ATHANASIOS ZAVRAS, DDS, MSc, DMSc**

*Assistant Professor of Oral Health Policy and Epidemiology, Harvard  
School of Dental Medicine*

### **Congratulations to Dr. Zavras for his recent grant from the Fanconi Anemia Research Fund, Inc. for his project, "Technology Assessment for Oral Cancer Early Detection."**

Oral cancer in Fanconi Anemia patients is a frequent, serious, and potentially morbid condition; in contrast to sporadic oral cancers that develop later in life, oral cancer among Fanconi Anemia patients manifests itself early. Clinicians and Fanconi Anemia families recognize that early diagnosis of cancer is critical; current diagnostic methods rely heavily in visual inspection for signs of the disease, and a biopsy of high-risk or suspicious lesions. Although biopsies are invaluable in confirming malignant status or for staging, frequent biopsies affect quality of life, and often deter patients from seeking proper care.

Several non-invasive or minimally-invasive technologies promise to assist clinicians in triaging suspicious lesions. This new grant addresses evaluation and utilization of new technologies for early detection of oral cancer. Using advanced text mining and statistical meta-analytic techniques, Dr. Zavras will identify and evaluate the underlying science of new diagnostic methods, marketed and under development, and assess several parameters of their use such as test sensitivity and specificity, positive and negative predictive values, risk of adverse effects, discomfort levels, etc.

Dr. Zavras is Program Director of the Cancer Research & Control Program at the Cyprus International Institute. His work at the Institute aims to identify risk factors for cancer development in the Mediterranean region, to implement risk assessment and preventive programs and to design efficient national cancer surveillance systems. Dr. Zavras obtained his DMD degree from the University of Athens (1991), a certificate of advanced studies in Pediatric Dentistry from Tufts University (1993), a certificate of advanced studies in Dental Public Health from Harvard University (1995) and a certificate in Oral Epidemiology (1998) from Harvard University. He is a Diplomat of the American Board of Dental Public Health since 2003. Dr. Zavras received a Masters of Science degree in Epidemiology from the Harvard School of Public Health (1994). Subsequently he received a Doctorate of Medical Science in Biology/Epidemiology from the Harvard Medical School (1999). His doctoral degree was sponsored by the National Institute of Dental & Craniofacial Research through a T32 training grant. Dr. Zavras has significant public policy experience at the international level. He has represented the European Commission at the World Health Organization during the FCTC inter-governmental negotiations, and has served in multiple international public health committees (EC, WHO). In 2004 he represented the Hellenic Ministry of Health to the World Health Assembly. Dr. Zavras is the President of the International Society for the Prevention of Tobacco Induced Diseases.

### **OLSEN NAMED SENIOR SCIENTIFIC AWARD RECIPIENT**

Bjorn R. Olsen, MD, PhD will receive the 2006 Senior Scientific Award from the American Society for Matrix Biology. Dr. Olsen is currently the Hersey Professor of Cell Biology at Harvard Medical School and Dean for Research at Harvard School of Dental Medicine. Dr. Olsen has made important contributions to the field of matrix biology and has discovered several collagens, including collagen type XVIII/endostatin. His recent work focuses on several areas including skeletal and vascular morphogenesis, growth and remodeling/repair, genetic causes of degenerative joint disease (osteoarthritis) in humans and mice, and molecular mechanisms that lead to neoformation of dermal tissue in fibrotic diseases.

Dr. Olsen is the Editor-In-Chief of Matrix Biology.

# ANNOUNCEMENTS

## PLEASE VISIT THE NEW COMMITTEE ON HUMAN SUBJECTS' WEBSITE:

<http://www.hms.harvard.edu/orsp/human/human.html>

## Mandatory Harvard Ethics Training in Human Research (HETHR)

HETHR was developed by all three Harvard IRBs (HMS/HSDM, HSPH and FAS) as part of an NIH Enhancement Grant for human studies research. All three IRBs will be using HETHR as their training program. The HETHR training is comprised of basic elements and special topics that must be completed to achieve and receive certification in human subjects research. The training takes approximately two hours from start to finish, however you may complete the training in several sittings. To learn more, visit the HETHR website at: <http://hethr.harvard.edu>.

QUESTIONS?

COMMENTS?

SUGGESTIONS?

**BJORN R. OLSEN, MD, PHD, DEAN FOR RESEARCH**  
**DAWN M. DECOSTA, ASSISTANT DIRECTOR, OFFICE OF RESEARCH**  
**JIM MCBRIDE, DIRECTOR OF CORE LABORATORIES**  
**GAMALIA PHARMS, STAFF ASSISTANT**  
**ANNIE STUDDARD, LABORATORY AIDE**

**HSDM OFFICE OF RESEARCH — 188 LONGWOOD AVENUE, REB-4<sup>TH</sup> FLOOR — BOSTON, MA 02115**  
**DAWN\_DECOSTA@HSDM.HARVARD.EDU — 617.432.1121 TEL—617.432.5867 FAX**

## IMPORTANT GRANT PROPOSAL INFORMATION

- Grant Administrators will provide guidance on budget and proposal preparation.
- NIH standing submission dates have been modified.
  - P's **January 25** (instead of Feb 1)
  - T's **January 25** (instead of Jan 10)
  - **NEW R01's February 5** (instead of Feb 1)
  - K's **February 12** (instead of Feb 1)
  - **NEW R03's, R21's February 16** (instead of Feb 1)
  - **Resubmission R01's March 5** (instead of March 1)
  - **Resubmission R03's and R21's March 16** (instead of March 1)
- HSDM Finance & Administration & The Office of Research must review and approve all budgets and potential grant transfers before proposal goes to Sponsored Programs Administration to:
  - Identify any cost-sharing issues
  - Verify salary information (includes meeting NIH/HMS salary/stipend guidelines)
  - Identify potential staffing and space needs
  - Identify visa issues (Harvard University policy prohibits the employment of an individual prior to obtaining an appropriate visa)
  - Ensure compliance with appropriate training and certification
- We strongly suggest your Department Chair and Dean for Research provide a scientific review of your proposal.
- PI's should not make any commitments to new personnel for their Lab without discussing the matter with their Department Chair, the Office for Research and Administration and Finance.
- For non-federal awards without an established Overhead/F&A rate, SPA and the Finance Office are requesting that you budget a minimum Overhead/F&A rate of \$95 per square foot.
- Any clinical studies with industrial support or with grant support that involves the treatment or diagnosis of patients, any medical or behavioral intervention involving patients, or that relates to the testing of sponsor materials, devices, drugs or other products must go through the Office of Research.