

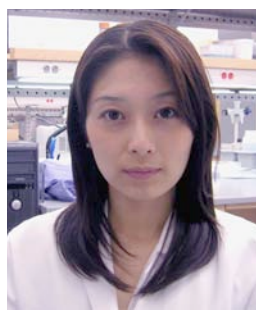


Congratulations to **BJORN R. OLSEN, MD, PHD** who received a grant from The Foundation for Fighting Blindness for his project, **VEGF and collagen XVIII/endostatin in macular degeneration and choroidal angiogenesis.**

Dr. Olsen is collaborating with Napoleone Ferrara, MD, Genentech Fellow in Molecular Oncology and Alexander Marneros, MD, Research Associate from his Lab. This research project asks three questions about what is required for the pigmented cell layer behind the retina to support visual functions in the adult. One question is whether production of a small protein, VEGF, by the pigmented cells is essential for the long-term survival and function of the light sensing cells within the retina and the blood vessels behind the retina. The second question is whether the production of VEGF by the pigmented cells is essential for long-term function of the pigmented cell layer itself. The third question is whether production by the pigmented cells of a connective tissue protein, called collagen XVIII/endostatin, is required for long-term visual function. This protein is a component of thin membranes to which the retinal pigmented cells and blood vessel lining cells are attached, allowing the cells to be organized into thin sheets.



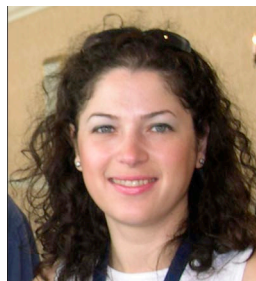
CONGRATULATIONS TO THE 2006-07 DEAN'S SCHOLAR RECIPIENTS



YUKIKO MAEDA, PHD (*New Award*)

The role of Indian hedgehog in endochondral bone formation after birth

Dr. Maeda received her PhD in Molecular Pharmacology in 2004 and since then, has been a postdoctoral fellow in the Lanske Lab. Dr. Maeda is working on generating and analyzing the phenotype of mice which are specifically ablated for the Indian hedgehog gene in chondrocytes during postnatal life. Her exciting work allows, for the first time, to investigate the role of Indian hedgehog in the postnatal skeleton.



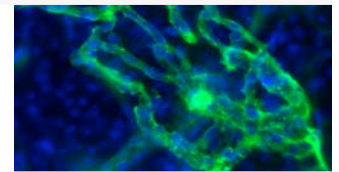
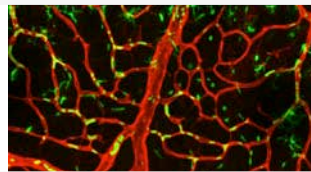
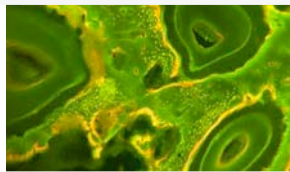
DESPINA SITARA, PHD (*Continuation Award*)

FGF-23 and phosphate homeostasis

Dr. Sitara received her PhD in Endocrinology and MSc in Molecular Genetics and since 2003, has been a postdoctoral fellow in the Lanske Lab. Dr. Sitara is working on the characterization of the Fibroblast-growth factor 23 null animals. Dr. Sitara has expanded her research in investigating the role of Vitamin D in mediating the actions of Fgf-23 in vivo.

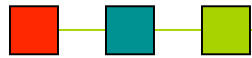


PUBLICATIONS:



- Abe Y, Chen W, Huang W, Nishino M, Li YP. CNBP regulates forebrain formation at organogenesis stage in chick embryos. *Dev Biology* 2006;Apr 18.
- Bartlett JD, Skobe Z, Lee DH, Wright JT, Li Y, Kulkarni AB, Gibson CW. A developmental comparison of matrix metalloproteinase-20 and amelogenin null mouse enamel. *Eur J Oral Sci* 2006;114(1):18-23.
- Bellinger DC, Trachtenberg F, Barregard L, Tavares M, Cernichiari E, Daniel D, McKinlay S. Neuropsychological and renal effects of dental amalgam in children: a randomized clinical trial. *JAMA* 2006;295(15):1775-83.
- Benias E, Skobe Z, Bartlett JD. Formation of the dentino-enamel interface in enamelysin (MMP-20)-deficient mouse incisors. *Eur J Oral Sci* 2006;114:24-29.
- Boucher K, Siegel CS, Sharma P, Hauschka PV, Solomon KR. HMG-CoA reductase inhibitors induce apoptosis in pericytes. *Microvasc Research* 2006;71(2):91-102.
- Chiang N, Hurwitz S, Ridker PM, Serhan CN. Aspirin has a gender-dependent impact on anti-inflammatory 15-epi-lipoxin A4 formation: a randomized human trial. *Arterioscler Thromb Vasc Biol* 2006;26:14-17.
- Clish CB, Serhan CN. Lipidomic analysis of plasma and tissues: lipid-derived mediators of inflammation and markers of disease. In: Burczynski ME, Rockett JC, eds. *Surrogate Tissue Analysis: Genomic, Proteomic and Metabolomic Approaches*. Boca Raton, FL: Taylor & Francis, 2006:185-202.
- Donoff RB. Treatment of the irradiated patient with dental implants: the case against hyperbaric oxygen treatment. *J Oral Maxillofac Surg* 2006;64(5):819-822.
- Haffajee AD. Systemic antibiotics: to use or not to use in the treatment of periodontal infections. That is the question. *J Clin Periodontol* 2006;33(5):359-361.
- Halpern LR, Perciaccante VJ, Hayes C, Susarla S, Dodson TB. A protocol to diagnose intimate partner violence in the emergency department. *J Trauma* 2006;60(5):1101-1105.
- Hasturk H, Kantarci A, Ohira T, Arita M, Ebrahimi N, Chiang N, Petasis NA, Levy BD, Serhan CN, Van Dyke TE. RvE1 protects from local inflammation and osteoclast mediated bone destruction in periodontitis. *FASEB J* 2006; 20:401-403.
- Ho DM, Chan J, Bayliss P, Whitman M. Inhibitor-resistant type I receptors reveal specific requirements for TGF-beta signaling in vivo. *Dev Biol* 2006;May 7.
- Johnson AD. A review of exam accommodations for dental students with disabilities. *J Dental Education* 2006;70(5):475-9.
- Kawai T. Hypermucoviscosity: An extremely sticky phenotype of klebsiella pneumoniae associated with emerging destructive tissue abscess syndrome. *Clin Infect Dis* 2006; 42(10):1359-1361.
- Lal K, White GS, Morea DN, Wright RF. Use of stereolithographic templates for surgical and prosthodontic implant planning and placement. Part II. A clinical report. *J Prosthodontics* 2006;15(2):117-122.
- Levin M, Buznikov GA, Lauder JM. Of minds and embryos: left-right asymmetry and the serotonergic controls of pre-neural morphogenesis. *Dev Neurosci* 2006;28(3):171-185.
- Levy BD, Serhan CN. Lipid mediators: lipoxins. In: Laurent GJ, Shapiro SD, eds. *Encyclopedia of Respiratory Medicine*, vol. 2. Oxford: Elsevier, 2006:594-606.
- Machado FS, Johndrow JE, Esper L, Dias A, Bafica A, Serhan CN, Aliberti J. Anti-inflammatory actions of lipoxin A4 and aspirin-triggered lipoxin are SOCS-2-dependent. *Nature Med* 2006;12:330-334.
- Maserejian NN, Joshipura KJ, Rosner BA, Giovannucci E, Zavras AI. Prospective study of alcohol consumption and risk of oral premalignant lesions in men. *Cancer Epidemiol Biomarkers Prev* 2006;15(4):774-781.
- Mattos-Graner RO, Porter KA, Smith DJ, Hosogi Y, Duncan MJ. Functional analysis of glucan binding protein B from *Streptococcus mutans*. *J Bacteriology* 2006;188(11):3813-3825.
- Park SE, Susarla SM, Massey W. Do admissions data and NBDE part I scores predict clinical performance among dental students? *J Dent Education* 2006;70(5):518-524.
- Pitiphat W, Joshipura KJ, Rich-Edwards JW, Williams PL, Douglass CW, Gillman MW. Periodontitis and plasma c-reactive protein during pregnancy. *J Periodontology* 2006;77(5):821-825.
- Serhan CN, Chiang N. Putting the brakes on neutrophils. *Blood* 2006;107:1742-1743.
- Serhan CN, Gotlinger K, Hong S, Lu Y, Siegelman J, Baer T, Yang R, Colgan SP, Petasis NA. Anti-inflammatory actions of neuroprotectin D1/protectin D1 and its natural stereoisomers: assignments of dihydroxy-containing docosatrienes. *J Immunology* 2006;176:1848-1859.
- Skobe Z. SEM evidence that one ameloblast secretes one keyhole-shaped enamel rod in monkey teeth. *Eur J Oral Science* 2006;114 Suppl 1:338-342.
- Sonis ST. Can oral glutamine prevent mucositis in children undergoing hematopoietic stem-cell transplantation? *Nat Clin Pract Oncol* 2006;3(5):244-5.
- Woo SB, Hellstein JW, Kalmar JR. Systematic review: bisphosphonates and osteonecrosis of the jaws. *Ann Intern Medicine* 2006;6;144(10):753-761.
- Yoo RH, Chuang SK, Erakat MS, Weed M, Dodson TB. Changes in crestal bone levels for immediately loaded implants. *Int J Oral Maxillofac Implants* 2006;21(2):253-261.
- Zavras AI, Zhu S. Bisphosphonates Are Associated With Increased Risk for Jaw Surgery in Medical Claims Data: Is it Osteonecrosis? *J Oral Maxillofac Surgery* 2006;64(6):917-23.

GRANTS & AWARDS:



TAREQ ABUREZEQ, DDS represented HSDM at the American College of Prosthodontics Massachusetts Section and placed third for his presentation and his MMSc thesis, [The effect of flouride on intracellular protein expression in mouse ameloblasts.](#)

YUKIKO MAEDA, PHD received the Harold M. Frost Young Investigator Award to attend the American Society for Bone and Mineral Research Sun Valley Workshop on Skeletal Biology. Dr. Maeda (Lanske Lab) will present her research, [The role of Indian hedgehog in endochondral bone formation after birth.](#)

MICHAEL O'TOOLE, DMD won first prize in the Remo Sinibaldi Competition at the American College of Prosthodontics Massachusetts Section. Michael received a travel grant to attend the ACP Annual Session in Miami. His poster was his MMSc thesis, [A biomechanical analysis of sandblasted and acid etched and machined surfaces.](#)

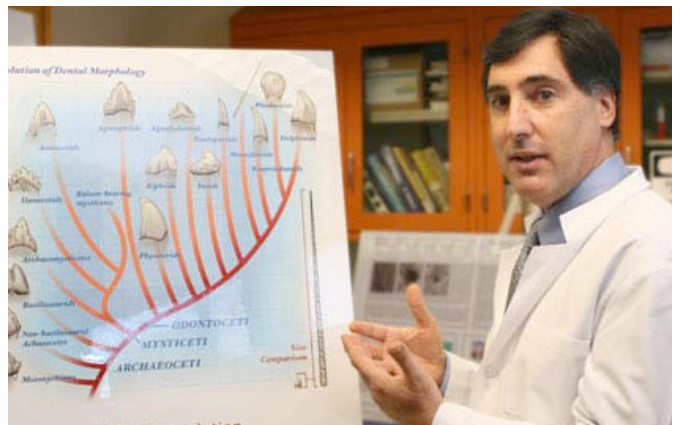
AMIT SACHDEO, DMD received an AADR Bloc Grant from NIDCR to attend and present at the 84th IADR General Session in Brisbane, Australia. Dr. Sachdeo will present his research, [Biofilm formation in the edentulous.](#)

DESPINA SITARA, PHD received the John Haddad Young Investigator Award to attend the American Society for Bone and Mineral Research conference. Dr. Sitara (Lanske Lab) presented her research, [Vitamin D-mediated actions of Fgf-23 in vivo.](#)

Congratulations to **KIE KASUGA PHD** who received a grant from The Arthritis Foundation for her project, [Resolvin Inactivation: Omega-3 Lipid Mediators in Inflammation.](#) Dr. Kie is a Postdoctoral Fellow in Oral Medicine, Infection & Immunity (Serhan Lab).



Congratulations to **LIN XU, MD, PHD** who received The Milton and Renee Glass Family Fellowship in Jaw Joints and Ailed Musculo-Skeletal Disorders for her project, [Temporomandibular Joint Disorders Associated With Collagen Mutations.](#) Dr. Xu is an Instructor in Developmental Biology.



Congratulations to **MARTIN NWEEDIA, DMD, DDS** who received a grant from the National Science Foundation for his project, [Inuit and Scientific Studies of the Narwhal: Connecting Parallel Perceptions.](#)

Dr. Nweeia is a Clinical Instructor in Restorative Dentistry and Biomaterials Sciences and a Research Associate in the Marine Mammal Program at the Smithsonian Institution.

ANNOUNCEMENTS:

NEW POLICY REGARDING CLINICAL RESEARCH AT HSDM



Effective June 1st, if you are interested in doing a clinical study 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, please let Dawn DeCosta in the HSDM Office of Research know. She will ensure that the appropriate agreements get negotiated, reviewed and approved by all appropriate Harvard Offices, and will serve as your point of contact in the approval process.

Please keep in mind that agreements with sponsors or industry that fund, or relate to any of your studies or work at Harvard (including clinical trials, device testing, material transfer or confidentiality agreements) cannot be signed by faculty or other HSDM employees individually. All such agreements must be reviewed, approved and signed by appropriate designees.

HSDM NEEDLESTICK EXPOSURE/INCIDENT PROTOCOL

Force bleed if possible;

Wash the affected area and/or flush mucus membranes thoroughly;

Report the incident to the supervisor;

Call the University Health Service at 617.432.1370 or if this incident occurs after hours call 617.495.5711 to report and discuss the nature of the exposure and make an appointment;

Fill out an Accident Report (OSHA Form 301) (Staff and Faculty Only)
<http://harvie.harvard.edu/benefits/pdf/accidentreport.pdf> (be sure to print form on yellow paper);

Fill out HSDM report below and make three copies and distribute as follows:

- a. University Health Services;
- b. The original copy will go the Chair of the HSDM EH&S Committee where the incident will be reported to the Committee and filed into a needlestick log. If the incident occurs in the Harvard Dental Center the Practice Manager will receive the original;
- c. Department Coordinator/Patient Business Office Manager.

PLEASE CONTACT JIM MCBRIDE, DIRECTOR OF CORE LABORATORIES IF YOU HAVE QUESTIONS REGARDING THIS PROTOCOL (617.432.5613).

ARE YOU
READY FOR
GRANTS.GOV?



www.hms.harvard.edu/spa/grants_gov/index.htm

QUESTIONS
COMMENTS
SUGGESTIONS?

DAWN M. DE COSTA
HSDM OFFICE OF RESEARCH
188 LONGWOOD AVENUE, REB-404
BOSTON, MA 02115
DAWN_DECOSTA@HSDM.HARVARD.EDU
617.432.1121 TEL
617.432.5867 FAX