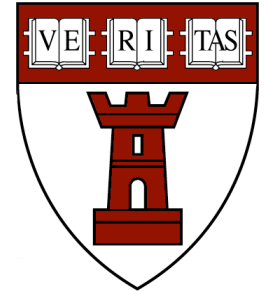


HSDM OFFICE OF RESEARCH BULLETIN



April 1, 2004

2004-05 DEAN'S SCHOLARS

Congratulations to **Arkhat Abzhanov, PhD** who received a Dean's Scholars Award for his research on how differentiation of the cranial neural crest cells into chondrocytes and osteocytes occurs on the cellular and tissue level. Arkhat is also interested in the mechanisms by which the processes evolve to produce distinct craniofacial morphologies. Arkhat is working in the Tabin Lab at HMS Genetics. Arkhat has written 18 original manuscripts since 1998.

Congratulations to **Rachel Badovinac, DMD, ScM** who received a Dean's Scholars Award for her research project on the multigenic and environmental effects on risk for isolated nonsyndromic cleft lip with or without cleft palate. Rachel is working with Marco Ramoni on this project. Rachel's long-term goal is to have a multidisciplinary background in dental medicine, epidemiology and bioinformatics.

Congratulations to **Alexandre DaSilva, DMD, DMSc** who received a Dean's Scholars Award for his research on treatment of trigeminal pain. Alex is working in the MGH NMR Center for biomedical imaging in Charlestown. Alex's fundamental goal is to establish an independent scientific academic career, integrating multiple neuroimaging techniques in the study of trigeminal pain.

Congratulations to **Porsche Jumlongras, DDS, PhD** who received her second year of funding for a Dean's Scholars Award. Porsche is working in the Maas Lab at BWH Division of Genetics. She has been working on two projects involving molecular mechanisms of mammalian tooth development. The goal of the first project is to identify critical regulatory elements for *Msx1* and *Bmp4* expression and function in mouse developing dental mesenchyme at bud stage. The second project is a collaborative effort with the Beier Lab on genetic interactions of *Msx1*, *Pax9* and *Cpo1*.

AADR HATTON AWARDS

Congratulations to **Sung Bang (2006)** and **Zach Peacock (2004)** for receiving prestigious AADR Hatton Awards. Sung received 1st place for, Frequency analysis of competence genes of streptococcus mutans and, Zach received 3rd place for Caries protective effects of intranasal immunization of s. mutans GbpB peptides.

WILLIAM J. GIES AWARD

The Biomaterials/Bioengineering Award was presented to C Young, S Terada, J Vacanti, M Honda, **J Bartlett***, **P Yelick*** (Forsyth, MGH and HSDM) for Tissue engineering of complex tooth structures on biodegradable polymer scaffolds (*J Dent Research* 2002).

**Drs. Bartlett and Yelick are Faculty in the HSDM Oral and Developmental Biology Dept.*

Student Research Day

April 29, 2004

On April 29th, HSDM will hold its annual Research Day event. Predoctoral and Advanced Graduate Education students from the Harvard School of Dental Medicine will present research projects in the areas of basic, translational, and epidemiological science. Poster Presentations will be held at the Vanderbilt Common Room, in the morning (9am-12pm) and afternoon (2pm-5pm). Oral presentations are from 12pm-2pm in MEC 250. HSDM clinics will be closed all day for the event. All HSDM students and faculty are invited to attend. Refreshments will be provided.

For further information please contact Alejandro Montalvo in the Office of Dental Education: 617-432-1376.

RECENT PUBLICATIONS: Please note, if we have not captured your recent publications, please email Dawn DeCosta. You can be assured they will be listed in the next Bulletin. Thanks!

Correia FF, Plummer AR, Paster BJ, Dewhirst FE. Genome size of human oral *Treponema* species by pulsed-field gel electrophoresis. *Oral Microbiol Immunol* 2004;19(2):129-31.

Hamano Y, Sugimoto H, Soubasakos MA, Kieran M, Olsen BR, Lawler J, Sudhakar A, Kalluri R. Thrombospondin-1 associated with tumor microenvironment contributes to low-dose cyclophosphamide-mediated endothelial cell apoptosis and tumor growth suppression. *Cancer Research* 2004;64(5):1570-4.

Matangkasombut O, Auty R, Buratowski S. Structure and function of the TFIIID complex. *Adv Protein Chem* 2004;67:67-92.

Mozaffarian D, Pischon T, Hankinson SE, Rifai N, Joshipura K, Willett WC, Rimm EB. Dietary intake of trans fatty acids and systemic inflammation in women. *Am J Clinical Nutrition* 2004;79(4):606-12.

Nelson, LP. Assess ABCD to ascertain the level of cultural influence in pediatric dental families, *Pediatric Dentistry* 2003 Jan-Feb:26-28.

Nelson, LP. Biology of the Mouth. In Merck Manual of Medical Information-Home Edition, 2nd edition, Beers, MH, (eds.), Whitehouse Station:Merck Research Laboratories, 2003:661-3.

Razzaque MS, Foster CS, Ahmed AR. Role of macrophage migration inhibitory factor in conjunctival pathology in ocular cicatricial pemphigoid. *Investigative Ophthalmology and Visual Science*. 2004;45:1174-1181.

Royzman D, Recio L, Badovinac R, Fiorellini J, Goodson M, Howell H, Karimbux N. The effect of aspirin intake on bleeding on probing in patients with gingivitis. *J Periodontol* 2004;75(5).

Spivak K, Hayes C, Maguire JH. Caries prevalence, oral health behavior, and attitudes in children residing in radiation contaminated and non-contaminated towns in the Ukraine. *Community Dent Oral Epidemiology* 2004 Feb;32(1):1-9.

Troulis MJ, Williams WB, Kaban LB. Staged protocol for resection, skeletal reconstruction, and oral rehabilitation of children with jaw tumors. *Journal of Oral and Maxillofacial Surgery* 2004;62(3):335-43.

Rabie Shanti Selected to the Howard Hughes/ NIH Program

Congratulations to **Rabie Shanti (2006)** who was selected to participate in the Howard Hughes Medical Institute Program.

The HHMI-NIH Research Scholars Program, known as the Cloister Program, was established in 1985 to give outstanding students at U.S. medical & dental schools the opportunity to receive research training at the NIH.

Scholars spend 9 months to a year on the NIH campus, conducting basic, translational or applied biomedical research under the direct mentorship of senior NIH research scientists.

Rabie has not officially chosen his project, but will pursue research in tissue engineering and stem cell biology.

"I felt that as an aspiring academician, spending an entire year working in a basic science laboratory would help me develop the skills and tools that will allow me to integrate my clinical and research interests."

~ Rabie Shanti

The Howard Hughes Medical Institute provides the administration and funding for the program, including the salaries and benefits for the Scholars. The NIH provides advisors, mentors, laboratory space, and equipment and supplies. Congratulations to Rabie for this prestigious honor.

RESEARCH LECTURE

Paul T. Sharpe, PhD

**Head, Department of Craniofacial Development;
Dickinson Professor of Craniofacial Biology;
Director of Research, Dental Institute, King's College London**

Molecular control of tooth morphogenesis

MONDAY, MAY 3, 2004

2:00-3:00 PM

HMS CANNON ROOM

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