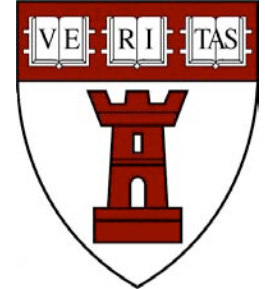


HSDM OFFICE OF RESEARCH BULLETIN



December 1, 2004

NEW STAFF:

We are pleased to welcome two new staff members to the Office of Research.

JENNIFER MOLTONI, a Staff Assistant joins us from HMS Social Medicine and resides on the 5th floor. Jennifer works Tue, Thu and Fri. Jennifer's main responsibility is supporting Dr. Catherine Hayes and all student research activities.

ANNIE STUDDARD, a Lab Aide will reside on the 4th floor. Annie has over five years of experience as a Lab Aide for HMS Pathology. Annie's main responsibility is running the specialized washers, dryers and autoclave machines, as well as general support for the 3 floors of research space in the new building.

LINKS:

NIH LOAN REPAYMENT INFORMATION

<http://www.lrp.nih.gov>

FIND GRANT OPPORTUNITIES

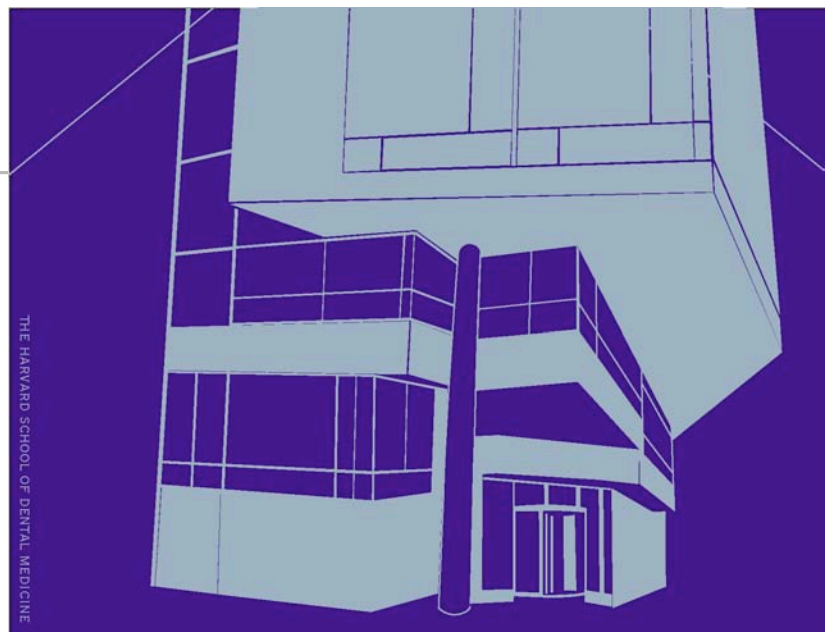
<http://www.grants.gov/Find>

HIPPA RESOURCES

<http://privacyruleandresearch.nih.gov>

HOWARD HUGHES NIH SCHOLARS

<http://www.hhmi.org/cloister/guidelines.html>



We are in the process of updating the HSDM Office of Research Ecommons site to include a forms section and student research items. If you feel that items are missing, please email Dawn or Jennifer. We welcome your comments, suggestions and corrections.

RECENT PUBLICATIONS:

- Bartlett JD, Beniash E, Lee DH, Smith CE. [Decreased mineral content in MMP-20 null mouse enamel is prominent during the maturation stage.](#) *Journal Dental Research* 2004;83(12):909-13.
- DePaola DP, Slavkin HC. [Reforming dental health professions education: a white paper.](#) *Journal of Dental Education* 2004;68(11):1139-50.
- Hung HC, Joshipura KJ, Jiang R, Hu FB, Hunter D, Smith-Warner SA, Colditz GA, Rosner B, Spiegelman D, Willett WC. [Fruit and vegetable intake and risk of major chronic disease.](#) *Journal of the National Cancer Institute* 2004;96(21):1577-84.
- Olsen BR. [Many scattered bones do not a skeleton make.](#) *Development* 2004;131(23):5775-7.
- Pitiphat W, Crohin C, Williams P, Merchant AT, Douglass CW, Colditz GA, Joshipura KJ. [Use of preexisting radiographs for assessing periodontal disease in epidemiologic studies.](#) *Journal of Public Health Dentistry* 2004;64(4):223-30.
- Razzaque MS, Taguchi T. [Involvement of stress proteins in renal diseases.](#) *Contributions to Nephrology* 2005; 138:1-7.
- Sasaki H, Okamoto Y, Kawai T, Kent R, Taubman M, Stashenko P. [The interleukin-10 knockout mouse is highly susceptible to Porphyromonas gingivalis-induced alveolar bone loss.](#) *Journal of Periodontal Research* 2004;39(6):432-41.
- Spentzos D, Levine DA, Ramoni MF, Joseph M, Gu X, Boyd J, Libermann TA, Cannistra SA. [A Gene expression signature with independent prognostic significance in epithelial ovarian cancer.](#) *Journal of Clinical Oncology* 2004;Oct 25.
- Sukotjo C, Radics A. [Use of vinyl polysiloxane for the fabrication of implant surgical guide.](#) *Journal of Prosthetic Dentistry* 2004; 92(6):596-597.
- Treister N, Lehmann LE, Cherrick I, Guinan EC, Woo SB. [Dyskeratosis congenita vs. chronic graft versus host disease: report of a case and a review of the literature.](#) *Oral Surgery Oral Medicine Oral Pathology Oral Radiology Endodontics.* 2004;98(5):566-71.
- Troulis MJ. [Endoscopic open reduction and internal rigid fixation of subcondylar fractures.](#) *Journal of Oral and Maxillofacial Surgery* 2004;62(10):1269-71.
- Wig AD, Aaron LA, Turner JA, Huggins KH, Truelove E. [Short-term clinical outcomes and patient compliance with temporomandibular disorder treatment recommendations.](#) *Journal of Orofacial Pain* 2004;18(3):203-13.
- Winter W, Heckmann SM, Weber HP. [A time-dependent healing function for immediate loaded implants.](#) *Journal of Biomechanics* 2004;37(12):1861-7.
- Xu L, Peng H, Wu D, Hu K, Goldring MB, Olsen BR, Li Y. [Activation of the discoidin domain receptor 2 induces expression of matrix metalloproteinase 13 associated with osteoarthritis in mice.](#) *Journal of Biological Chemistry* 2004;Oct 27.

RESEARCH ACADEMY NEWS:

We are pleased to announce the Class of 2007 Research Academy Members:

Shreekrishna Akilesh
Brooke Blicher
Andrea Burke
Eugenia Lee
John Lindgren
Sampeter Odera
Robert Park

STUDENT RESEARCH:

BY RABIE SHANTI

Howard Hughes Medical Institute-National Institutes of Health Research Scholar

The field of tissue engineering is one of the most exciting and rapidly developing areas of biomedical research. Therefore, I decided to spend my year at the NIH working in a tissue-engineering laboratory. Currently, I am working as a Howard Hughes Medical Institute-National Institutes of Health Research Scholar in the laboratory of Dr. Rocky Tuan, Ph.D., Branch Chief of the Cartilage Biology and Orthopaedics Branch of the National Institute of Arthritis and Musculoskeletal and Skin Diseases.

Our laboratory applies principles of molecular biology as well as engineering principles to fabricate musculoskeletal tissues. My project specifically focuses on using a novel biodegradable construct and human bone marrow derived mesenchymal progenitor cells for the development of engineered skeletal muscle for clinical applications. Through this work I am gaining exposure to the most state-of-the-art technology in design



and fabrication of bioconductive biomaterials; cell and tissue imaging; and isolation and expansion of tissue progenitor cells. I am also involved in a large laboratory effort that combines the expertise of engineers, clinicians, scientists, and statisticians to study the molecular mechanisms regulating distraction osteogenesis, a bone lengthening procedure, in a mouse model. Dr. Tuan has not only given me an independent project, but is also providing me with a great deal of mentorship and support that will certainly foster my development towards a career in which I can integrate my clinical and research passions.

I hope to see many more of my HSDM colleagues apply to the HHMI-NIH Research Scholars Program and take advantage of our curriculum's support of student research and really embark on the experience of a life time. This program provides students with tremendous resources that will guide a student towards a career in science, such as, weekly events and lectures featuring NIH and HHMI investigators, opportunities to attend scientific meetings, as well as living with 44 other medical and dental students who all possess a great deal of excitement for science and research. I have been very fortunate in receiving so much support from HSDM, specifically Dean Donoff, Dr. Hayes, Dr. Flynn, and the MGH Department of Oral and Maxillofacial Surgery in my pursuit of this fellowship, as well as working for Dr. Tuan in such a dynamic and stimulating laboratory that is really at the cutting edge of science.

SEMINARS & LECTURES:

HSDM GRAND ROUNDS

Hypoxia, HIF-1 alpha and VHL in endochondral bone development

ERNESTINA SCHIPANI, MD, PHD

Massachusetts General Hospital Endocrine Unit
Assistant Professor of Medicine, Harvard Medical School
Assistant in Biology, Massachusetts General Hospital



DECEMBER 13, 2004

12PM-1PM

HSDM

REB Classroom 109

188 Longwood Avenue

617-432-1121

QUESTIONS? COMMENTS? SUGGESTIONS?

[http://www.hsdm.harvard.edu/
asp-tml/research.html](http://www.hsdm.harvard.edu/asp-tml/research.html)

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ANNIE STUDDARD

Lab Aide
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