

BENCH NOTES

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GRANT AWARDS

The Department of Molecular Cardiology is pleased to announce the recent awarding of several grants. Each recipient is to be congratulated.

Michelle Kish: AHA Fellowship, The role of metal ions in the regulation of ligand binding to the α -domain of β_3 integrins.

Yan-Qing Ma: AHA Fellowship, Molecular Mechanism of $\alpha_{IIb}\beta_3$ activation.

Natalya Podolnikova: AHA, Fellowship, Molecular basis for fibrin binding by platelet integrin $\alpha_{IIb}\beta_3$

Olga Stenina: AHA-BGIA, Mechanism of transcriptional regulation of thrombospondin-1 expression by glucose in vascular cells

N. Patrick McCabe: NRSA Fellowship Award (NIH); The role of SPARC in prostate cancer growth in bone.

Sandro Yong: AHA Fellowship, SCN5A mutation N1325S leads to arrhythmogenesis via abnormal intracellular handling of Ca^{+2} *in vivo*.

Sudhi Gupta: AHA-BGIA, Role of NF- κ B in hypertrophy and heart failure: triggered by cardiac specific overexpression of myotrophin.

6TH ANNUAL CONFERENCE ON ARTERIOSCLEROSIS, THROMBOSIS & VASCULAR BIOLOGY

The 6th Annual Conference on Arteriosclerosis, Thrombosis and Vascular Biology was held on April 28-30, 2005 in Washington, D.C., chaired by Dr. Edward F. Plow. The conference was presented in conjunction with the 45th Annual Conference on Cardiovascular Disease, Epidemiology and Prevention and in association with the Council on Nutrition, Physical Activity and Metabolism. The meeting focused on new developing research opportunities, and included special lectures, discussions, and oral and poster presentations. The meeting was attended by more than 800 registrants, the highest attendance at an ATVB meeting to date. Invited lectures by CCF faculty members were given by Drs. Tatiana Byzova, Marc Penn and Stanley Hazen. The Department of Molecular Cardiology was well represented as oral presenters selected on the basis of the highest graded abstracts and included Yan-Qing Ma, Ela Pluskota and Jane Hoover-Plow.



PUBLICATIONS

Inhibition of NF-kB Induces Regression of Cardiac Hypertrophy, Independent of Blood Pressure Control, in Spontaneously Hypertensive Rats. Sudhiranjan Gupta, Dave Young and Subha Sen. *Am. J. Physiol. Heart & Circ.*, 2005, In press.

Characterization and Functional Significance of Myotrophin: A Gene with Multiple Transcripts. Goutam Adhikary*, Sudhiranjan Gupta*, Parames Sil, Yasser Saad, and Subha Sen. *Gene*. 2005, In press. (*equal contribution)

The role of NF-kB signaling cascade and NF-kB-targeted genes in failing human hearts. Sudhiranjan Gupta and Subha Sen. *J Mol. Medicine*, 2005, In press.

Integrin activation and clustering controls tumor growth and vascularization. De,S., Razorenova, O., McCabe, N., O'Toole, T., Qin, J., and Byzova, T. *Proc. Natl. Acad. Sci.* In press, 2005.

Molecular dissection of PINCH-1 reveals a mechanism of coupling and uncoupling of cell shape modulation and survival. Xu, Z., Fukuda, T., Zha, X., Qin, J., and Wu, C. *J. Biol. Chem.* In press, 2005.

VEGF-integrin interplay controls tumor growth and vascularization. *Proc Natl Acad Sci U S A*. 2005 May 24;102(21):7589-94

Phase II trial of GM-CSF + thalidomide in patients with androgen-independent metastatic prostate cancer. Dreicer, R., Klein, E.A., Elson, P., Peereboom, D., Byzova, T., Plow, E.F. *Urol. Oncol.*, 2005 Mar-Apr; 23 (2):82-6

Thrombospondin-1 up-regulates expression of cell adhesion molecules and promotes monocyte binding to endothelium. Narizhneva, N.V., Razorenova, O.V., Podrez, E.A., Chen, J., Chandrasekharan, U.M., DiCorleto, P.E., Plow, E.F., Topol, E. *FASEB J.*, 2005



Worth Noting.....

- Sudhiranjan Gupta presented a poster at the International Society for Heart Research meeting in New Orleans, May 12-15.
- Jun Qin served as a PPF Cluster Review Panel member (June 8-10), NIH/NCI.
- Michelle Kish presented a poster at the 6th Annual ATVB Conference in Washington, D.C., April 28-29
- Jane Hoover-Plow, Ela Pluskota, and Yan-Qing Ma presented their work at the 6th Annual ATVB Conference in Washington, D.C., April 28-29.
- A commentary by Sarmistha De *et al.*, "Integrin stimulates tumor growth through VEGF" was selected for publication in *This Week in PNAS* (Proceedings of the National Academy of Sciences), 102(21):7403. The journal only selects one submission for inclusion!
- The city of Cleveland plans to install a camera at the intersection of Carnegie Ave at E. 100th Street to catch motorists who either run red lights or speed. Other nearby locations include Chester Avenue at E 71st Street, Chester at Euclid, Euclid at Mayfield, Carnegie at Martin Luther King, Jr., Cedar at Murray Hill, Shaker Blvd at E 116th, and Shaker Blvd at Shaker Square. A complete list can be found at <http://www.cleveland.com/news/wide/index.ssf?/news/wide/06cameras08.html>
- The Cleveland Clinic became smoke-free on July 4, 2005. Smoking will not be permitted anywhere at CCF.
- Reminder: We have been asked to comply with the CCF Dress Code; no jeans, shorts, sandals, flip-flops or non-CCF t-shirts.

Upcoming Seminars:

July 14: Sarmisthe De, Ph.D., 4:00 p.m., NC1-202

July 21: Valentin Ustinov, Ph.D., 4:00 p.m., NC1-202



Welcome.....

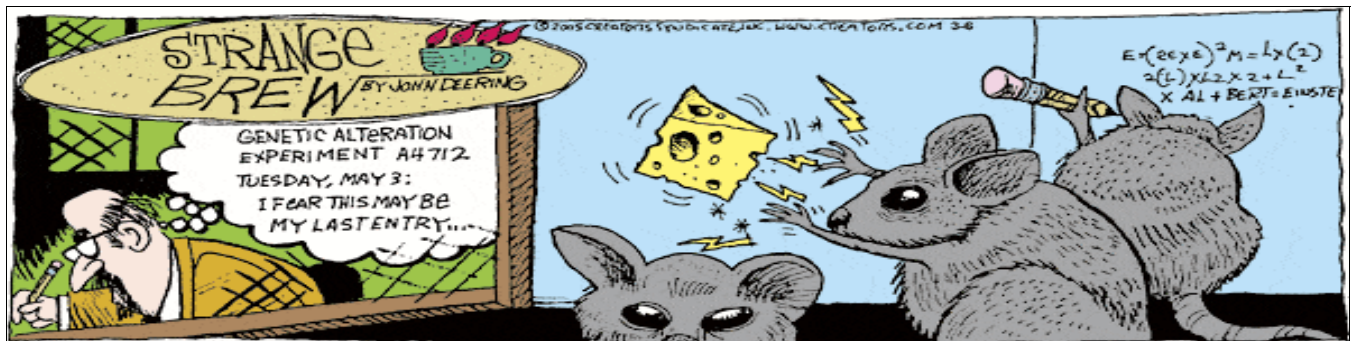
- Kumar Reddy, Project Scientist, Plow lab
- Koichi Fukuda, Research Associate, Qin lab
- Karl Devlin, Research Technician, Misra lab
- Tracey Schneeman, Fellow, Hoover-Plow lab
- Dawn Smith, Research Technologist, Reddy lab
- Kasia Augoff, Research Scholar, Fox lab
- Marilyn Messner, Secretary
- Sue DeStefano, Department Coordinator
- Ella Frovlova, Fellow, Stenina lab
- Qila Sa, Fellow, Hoover-Plow lab
- Ying Ni, Research Technologist, Wang lab

We'll miss you.....

- Jane Rein, Secretary; Secretary, Center for Neurological Restoration
- Yelena Shchurina, Research Fellow, Hoover-Plow lab; Detroit
- Susan Brown, Secretary

Our Summer/Temporary students.....

- Sumantha Bhat, Ilya Byzov, Amanda Fox, Emily Fox, Noel-Marie Gray, Isabel Huang, Priyanka Karnik, Hyunyoung Lee, Denise Mack, Anjuli Mahajan, Tivadar Orban, Dhanuja Perrera, Joseph Potter, Yilu Qin, Julie Rauch, Mike Ribaud, Jenna Saraniti, Robert Swaninger, Matt Widdowson



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CONGRATULATIONS TO.....

- Kurt Runge and Kathy Berkner on becoming new parents to Kai Ning, 19 months old.
- Helen Mack on her 25th anniversary as a Cleveland Clinic employee.
- Kasia Bialkowska on her promotion to Project Scientist.
- Yelena Shchurina on her promotion to Research Fellow.
- Jun Qin on his appointment as a regular member in the NIH Macromolecular Structure and Function Study Section C from July, 2005 to June, 2009.
- Shaoqi Rao on his appointment to the faculty of the Cleveland Clinic Lerner College of Medicine.
- Dan Trepal on the implementation of his World Class Service idea: Lab personnel should remember to check the computerized reagent inventory system before ordering more reagents.
- Erika Hart on promotion to Research Technologist; Anita Shukla on promotion to Senior Research Technologist; Huiqin Nie on promotion to Lead Research Technologist; and Valeryi Lishko on promotion to Lead Research Technologist.
- Natalia Narijneva, recipient of the Lower Non-Clinical Honorary Prize presented at the Annual Recognition Reception on June 4, for graduating residents and fellows.

New Cultural Garden Honors Asian Indians

More than 75 people witnessed the historical ground breaking for the India Cultural Garden on Sunday, May 22nd. Krishna Bhagavatula and his students from Shiva's Classic Dances, International were invited to perform Indian Classical Kuchipudi Dance for the event. After more than 20 years of planning, India will become the next country to be honored with a garden in the city of Cleveland. Construction of the Buddhist inspired structure is scheduled to begin in July. The first phase will include a sandstone walkway and five inscribed granite pillars. The second phase will include steps leading to Doan Brook similar to those found along rivers in India. The Cultural Gardens are a national landmark in Rockefeller Park, bordered by Martin Luther King, Jr. Drive.



Madhuri Tallamraju and Krishna Bhagavatula perform a Kuchipudi dance during the groundbreaking ceremony. Krishna is a Grad Student in the laboratory of Dr. Qing Wang.

Do you have information of interest to be included in future issues? Please contact me at 58200 or mackh@ccf.org by August 31, 2005.

BIRTHDAYS

July -

1-Xiao-Li Tian
7-Dave Young
19-Krishna Bhagavatula
22-Anita Shukla
25-Jun Qin
 Xiaoxia Wang
28-Ayse Anil Timur
30-Oleksandr Galkin

August -

4-Karl Devlin
9-Subha Sen
10-Huifang Ge
15-Kevin Hallgren
17-Robert Papay
18-Ling Wu
19-Nataly Belevych
23-Aditi Bandyopadhyay
26-Anushree Bhatnagar

September -

5-Joan Fox
6-Ela Pluskota
12-Weiyi Feng
19-Sucheta Kulkarni, and
 Juhua Chen
23-Jingfeng Sha and
 Nataly Podolnikova
29-Lin Li