UMass Center for Clinical and Translational Science Newsletter

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UMCCTS Newsletter, March 2015

UMass Center for Clinical and Translational Science

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Congratulation to the UMCCTS/MassBiologics of UMMS Next Hundred Million Pilot Projects Awardees for 2014

In September 2014, a funding announcement for the Next Hundred Million Pilot Project (NHMPP) was issued by the UMass Center for Clinical and Translational Science and MassBiologics of UMMS. The NHMPP award serves as a dedicated pool of funding to spur innovative collaborations between UMMS, MassBiologics of UMMS, and investigators across the UMass System with the goal of enhancing the translation of discoveries for clinical use.

We congratulate the 3 recipients of the NHMPP 2014 award:

- (UMMS) Craig Ceol, PhD, Dale Greiner, PhD, Giles Whalen, MD, (MassBiologics) Yang Wang, MD, PhD
  **GDF-6 Blocking Antibodies as Anti-Cancer Therapeutics**

- (UMMS) Michael Brehm, PhD, Dale Greiner, PhD, Jeremy Luban, MD, PhD, (MassBiologics) Lisa Cavacini, PhD, and Colby Souders, PhD
  **Human Monoclonal Antibodies to Block RhD Alloimmunization during Pregnancy**

- (UMMS) Ann Moormann, PhD, MPH, Douglas Golenbock, MD, (MassBiologics) Colby Souders, PhD, and William Thomas, Jr., PhD
  **Human Monoclonal Antibodies to Plasmodium falciparum Circumsporozoite Protein for Transient Passive Protection of Travelers to Endemic Areas**

For all UMCCTS funding opportunities, please go to our website at [http://www.umassmed.edu/ccts/funding](http://www.umassmed.edu/ccts/funding)
#TackleEbola

Funding Provided by Paul G. Allen Foundation

Critical Need to Provide Healthcare Workers and Educators in Liberia in Wake of Ebola

The University of Massachusetts Medical School and its academic partners, known as the Academic Consortium Combating Ebola (ACCEL), are initiating new programs to assist with health systems strengthening in Liberia, a country that has been severely affected by the Ebola virus epidemic. As the epidemic is waning in Liberia, there is a critical need to re-establish basic healthcare and reopen medical training programs. Sadly, many healthcare workers and faculty members have died from contracting the Ebola virus. For this reason, there is a critical need to provide healthcare workers to fill many gaps in staffing healthcare facilities and for faculty to teach in the medical school and in residency training programs.

ACCEL has partnered with the AM Dogliotti Medical School, the Liberian Post Graduate Medical College and the Liberian Ministry of Health to design programs to assist in filling these gaps. We are looking for many types of physicians to help staff hospitals throughout the country. We also seek preclinical and clinical faculty members to provide clinical training to Liberian trainees.

ACCEL has received generous funding support from the Paul Allen Tackle Ebola campaign to support salary, airfare, and in-country costs for program participants. Lengths of deployment will vary according to specialty, but 4 weeks or longer is desirable for most deployments. Faculty must be BC/BE in their specialty area.

For more information, please visit the website at: http://www.umassmed.edu/ebola/

If interested in applying, please send CV and letter of interest, including potential dates of deployment to:

Salimata Bangoura
ACCEL Project Director
Salimata.Bangoura@umassmed.edu

The Next Best Thing to a Cure

Inspiring story from Time magazine regarding initial clinical trials research by Dr. Ed Damiano for a portable, wearable, bionic pancreas to control blood glucose levels for Type 1 Diabetic patients.

Read the entire Time article at: http://time.com/3687291/the-next-best-thing-to-a-cure-for-diabetes/

The University of Massachusetts Medical School is one of four clinical trials sites in the U.S. who will participate in conducting human research of the bionic pancreas.

"Nowadays you would imagine that since we have continuous glucose monitors and insulin pumps, we should be able to take a computer and have the two talk to one another," said Dr. David Harlan, the William and Doris Krupp Professor in Medicine, professor of medicine and co-director of the Diabetes Center of Excellence. “So instead of having the individual do the thinking, an algorithm could do it. That’s the concept of the bionic pancreas.” – umassmedNOW November 19, 2013

See MBI Seminar “Diabetes: Our Health, Our Care, Our Future” on April 1, 2015 on page 6 of this newsletter.

Publication in the New England Journal of Medicine:

Profile on Dr. Ed Damiano, Associate Professor, Biomedical Engineer at Boston University: http://www.bu.edu/bme/people/primary/damiano/

University of Massachusetts Lowell
Department of Clinical Laboratory and Nutritional Sciences
CLNS Colloquium

Sherman J. Bigornia, PhD
Post Doctoral Fellow
Department of Clinical Lab and Nutritional Sciences
University of Massachusetts Lowell
http://www.uml.edu/health-sciences/CLNS/

“Erythrocyte Fatty Acid Composition and Associations with Depressive Symptomatology and Cardiovascular Disease Risk: The Boston Puerto Rican Health Study”

Thursday, March 12, 2015
12:30 – 1:30 pm
O’Leary Library, Room #222
South Campus, University of Massachusetts Lowell

Host: Mahdi Garelnabi, PhD, MSc, FAHA Mahdi_Garelnabi@uml.edu
http://faculty.uml.edu/mgarelnabi/index.html
The Bioinformatics Core invites you to: An Informal Discussion

Kristian Andersen, PhD
Post Doc, Host-Pathogen Evolution
Harvard University and Broad Institute
https://www.broadinstitute.org/bios/kristian-andersen

“Genomic Insights into Ebola and Lassa Hemorrhagic Fevers”

Friday, March 13, 2015
11:00 AM
6th Floor Conference Room 2072
Albert Sherman Center
University of Massachusetts Medical School

Host: Manuel Garber, PhD, Director, Bioinformatics Core Manuel.Garber@umassmed.edu

UMCCTS “R-Club”
Basic Elements and Process for a Successful Grant Application

Wednesday, March 18, 2015
12:30 pm
Conference Room AS6-2072
Albert Sherman Center
University of Massachusetts Medical School

On behalf of Drs. Rob Goldberg and Beth McCormick, we are pleased to announce the formation of a K to R Club at UMMS. This seminar/working group is available for all current and past K awardees and junior faculty at the institution who are contemplating the submission of an R type grant (e.g., R01, R03, R21) to the NIH during the coming academic year. This course will meet on a regular monthly basis on the 3rd Wednesday of each month, beginning on October 15, 2014, and will run through mid-July. We will discuss all the basic elements of a grant application and will conduct a series of mock grant reviews during the year so that applicants will obtain a better appreciation for the peer review process and what makes for a
successful grant application. This working group is intended to enhance, and not replace, mentoring by peers and senior faculty. Each of the monthly sessions will be conducted in an interactive format so that attendees can ask questions of each other and the course leaders to facilitate their proposal development.

**Interested in joining or questions?** Please contact the Program Leaders: Beth McCormick, PhD beth.mccormick@umassmed.edu and Robert J. Goldberg, PhD Robert.goldberg@umassmed.edu

http://www.umassmed.edu/ccts/education/r-club/

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**University of Massachusetts Lowell**

**Department of Clinical Laboratory and Nutritional Sciences**

**CLNS Colloquium**

Lisa Chasan-Taber, PhD
Professor of Epidemiology
School of Public Health and Health Sciences
University of Massachusetts Amherst

http://people.umass.edu/lisact/Dr._Lisa_Chasan-Taber/Welcome.html

"It’s Never too Early: Diabetes Prevention in Pregnancy"

Thursday, March 26, 2015
12:30 – 1:30 pm
O’Leary Library, Room #222
South Campus, University of Massachusetts Lowell

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**Massachusetts Medical Device Development Center**

**2015 M2D2 New Venture Competition Showcase**

Wednesday, April 1, 2015
5:00 – 9:00 pm
University of Massachusetts Lowell
220 Pawtucket Street
Moloney Hall, University Crossing, 2nd Floor
Lowell, MA 01854

This event will feature presentations and posters by the Medical Device start-up companies and inventors, featuring new medical device design inventions that have been submitted to the 2015 M2D2 New Venture Competition Showcase.
Competition. The presenting finalists will compete for a chance to win a total of $100,000 in services which include: Product Development, Business Development, Medical Development and laboratory space from M2D2, legal services from Mintz Levin and services from Smith & Nephew, Boston Scientific and Omni Components. Come see the new medical device ventures that will be showcased!

For complete details: [http://www.uml.edu/Research/Centers/M2D2/2015-NVC-Showcase.aspx](http://www.uml.edu/Research/Centers/M2D2/2015-NVC-Showcase.aspx)

To Register please go to: [https://events.r20.constantcontact.com/register/eventReg?oeidk=a07ealzcmx799a6775b&oseq=&c=&ch]
University of Massachusetts Lowell
Department of Clinical Laboratory and Nutritional Sciences
CLNS Colloquium

Maolin Guo, PhD
Professor, Department of Chemistry and Biochemistry
Co-Director, Biomedical Engineering and Biotechnology Program
Director, UMass Cranberry Health Research Center
University of Massachusetts Dartmouth
http://www.umassd.edu/cas/chemistry/facultyampstaff/maolinguo/

“TBA”
Thursday, April 2, 2015
12:30 – 1:30 pm
O’Leary Library, Room #222
South Campus, University of Massachusetts Lowell

Host: Mahdi Garelnabi, PhD, MSc, FAHA Mahdi_Garelnabi@uml.edu
http://faculty.uml.edu/mgarelnabi/index.html

University of Massachusetts Lowell
Department of Clinical Laboratory and Nutritional Sciences
CLNS Colloquium

Joel Tickner, PhD
Associate Professor
Department of Community Health and Sustainability
University of Massachusetts Lowell
http://www.uml.edu/Health-Sciences/CHS/faculty/tickner-joel.aspx

“Building the Scientific Field of Chemical Alternatives Assessment”
Thursday, April 9, 2015
12:30 – 1:30 pm
O’Leary Library, Room #222
South Campus, University of Massachusetts Lowell
The Bioinformatics Core invites you to: An Informal Discussion

Wouter Meuleman, PhD
Post Doc, Computational Biology
Massachusetts Institute of Technology
https://www.linkedin.com/in/woutermeuleman

“Analysis and Visualization of Hundreds of Epigenomes”

Friday, April 10, 2015
11:00 AM
6th Floor Conference Room 2072
Albert Sherman Center
University of Massachusetts Medical School

Program in Molecular Medicine

University of Massachusetts Medical School
Program in Molecular Medicine
In-House Seminar Series

Roger J. Davis, PhD
Howard Hughes Medical Institute Investigator
H. Arthur Smith Chair in Cancer Research
Professor, Program in Molecular Medicine
University of Massachusetts Medical School
http://profiles.umassmed.edu/Profiles/display/132098

“Metabolic Stress Signaling by JNK”

Monday, April 13, 2015
12:00 – 1:00 pm
Biotech II, 373 Plantation Street
3rd Floor Seminar Room
University of Massachusetts Medical School

Host: Michael Czech, PhD, Chair and Professor, Program in Molecular Medicine
University of Massachusetts Lowell
Department of Clinical Laboratory and Nutritional Sciences
CLNS Colloquium

Elazer R. Edelman, MD, PhD
Thomas D. and Virginia W. Cabot Professor of Health Sciences and Technology at MIT, Professor of Medicine at Harvard Medical School, and Senior Attending Physician in the Coronary Care Unit at the Brigham and Women’s Hospital, Boston
http://edelmanlab.mit.edu/elazer-edelman

“Endothelial Control of Vascular and Cancer Biology”

Thursday, April 16, 2015
12:30 – 1:30 pm
O’Leary Library, Room #222
South Campus, UMass Lowell

Announcing...Zoobiquity Boston Conference
Human and Animal Health in a Changing Global Environment

Saturday, April 25, 2015
7:50 am – 6:00 pm
Boston, MA

The Zoobiquity Conference Boston is sponsored by Tufts University, including the Cummings School of Veterinary Medicine, the Tufts Clinical Translational Science Institute and the School of Medicine.
Tufts is honored to be joined in hosting this event with colleagues from every medical school in Massachusetts along with MIT Division of Comparative Medicine

These partners include:
• Boston University Clinical Translational Science Institute
• Harvard Catalyst, the Harvard Clinical Translational Science Center
• Harvard Medical School
• University of Massachusetts Center for Clinical and Translational Science
Non-student Registration now open!
Visit the registration page for more information.

Please note student and morning-only registrations will open on March 23rd.

CONTACT: vetceinfo@tufts.edu or 508-887-4723
Zoobiquity Website: http://zoobiquity.com

National Research Mentoring Network (NRMN) Pilot Projects
Request for Applications

The NIH has recently funded a major diversity initiative including the creation of the National Research Mentoring Network (NRMN) to Diversify the Biomedical Workforce. NRMN is a network of biomedical professionals creating opportunities for mentees across career stages to find culturally competent mentors and engage in productive, supportive mentoring relationships. This network is committed to changing the face of the biomedical workforce by increasing the number of underserved, including underrepresented minorities, successfully obtaining NIH grants. NRMN works with mentees from the undergraduate through the junior faculty level and with all mentors committed to a diverse biomedical workforce. For the mentee, NRMN offers: the NRMNet web portal for mentoring, networking, mentor-mentee matching; regional programs for grant writing and other professional development activities; and culturally responsive mentoring. For the mentor, NRMN offers: Regional Train-the-Trainer workshops on culturally responsive mentoring; validated standards for effective mentoring relationships; synchronous and asynchronous online training.

Applications are being accepted for the NRMN Pilot Projects award program.
Letter of Intent due: Friday, March 13, 2015
Full Proposals due: May 1, 2015

Complete information available at: http://nrmnet.net/PilotRFA

UMMS Center for Health Equity Intervention Research (CHEIR)
Request for Abstracts for Research Projects

UMMS is planning to apply for a 5-year renewal to the National Institute on Minority Health and Health Disparities (NIMHD) to continue the work of the UMass Center for Health Equity Intervention Research (CHEIR, 5P60MD006912). For more information about CHEIR, please visit www.cheir.org

CHEIR is a multidisciplinary research center housed at the Department of Quantitative Health Sciences at the UMass Medical School and is a collaboration of the UMass Worcester and UMass Boston campuses. CHEIR’s mission is to develop interventions and strategies that incorporate research, community collaboration and health equity approaches to improve the health of populations and communities most impacted by health disparities.
As part of the renewal process, we will include 2-3 R01-type research studies proposed by UMass faculty in the area of health disparities and health equity. We are seeking brief abstracts to be used for selecting the research studies that will be invited to apply as part of the grant proposal. **Deadline for submission of abstracts is 5:00 pm on Friday, March 27, 2015.**

R01-type research projects selected for inclusion in the CHEIR renewal proposal will have budgets of approximately $150,000 per year for a 5-year project period. We anticipate selecting 2-3 R01-type projects.

**Timeline**

**Deadline for Abstracts:** March 27, 2015 at 5:00 pm  
**Notification of Selection:** June 30, 2015  
**Earliest Possible Start Date for Selected Projects** (pending funding): February, 2017

Complete information and the full RFA available at:  

Please contact Chioma Nnaji in the Department of Quantitative Health Sciences via email chioma.nnaji@umassmed.edu for complete abstract submission instructions/details.

Questions? Please direct all questions regarding this RFA to Richard McManus, Department of Quantitative Health Sciences, via email at richard.mcmanus@umassmed.edu

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**Univeristy of Massachusetts Medical School**  
**Cardiovascular T32 Request for Trainee Applications**

UMass Medical School received its first ever cardiovascular T32 training grant entitled, “**Transdisciplinary Training in Cardiovascular Research**” under the direction and senior leadership of Drs. Catarina Kiefe, Professor and Chair, Department of Quantitative Health Sciences, UMMS and John F. Keaney, Jr., Director, Heart and Vascular Center of Excellence and Professor and Chief, Cardiovascular Medicine, UMMS. The program began on August 1, 2014 and represents a wonderful opportunity for the institution to promote the entire spectrum (T0-T2+) of cardiovascular research on the UMMS campus.

This program is requesting applications from trainees who wish to become part of this exciting new program at the postdoctoral level.

**Due Date:** Monday, March 30, 2015

For more information and complete instructions:  
UMass Center for Clinical and Translational Science
362 Plantation Street, Ambulatory Care Center, 7th Floor
Worcester, MA 01605-0002

Website:  http://www.umassmed.edu/CCTS
Email:  ccts@umassmed.edu
Contact us:  http://www.umassmed.edu/ccts/contact-us/
Sign-up for Membership:  http://www.umassmed.edu/ccts/ccts-sign-up-for-membership/

Please remember to cite the CTSA Grant # UL1TR000161 in all supported journal publications.
http://www.umassmed.edu/ccts.nih-citation-requirements/