

eScholarship@UMassChan

UMCCTS Newsletter, August 2024

Item Type	Newsletter
Authors	UMass Center for Clinical and Translational Science
DOI	10.13028/p3p7-1f89
Publisher	UMass Chan Medical School
Rights	Copyright © 2024 UMass Chan Medical School; Attribution 4.0 International
Download date	2025-03-17 02:59:01
Item License	http://creativecommons.org/licenses/by/4.0/
Link to Item	https://hdl.handle.net/20.500.14038/53726



CENTER FOR CLINICAL & TRANSLATIONAL SCIENCE

UMASS CCTS NEWSLETTER



HIGHLIGHTS

IN THE NEWS

PPP AWARDS & NEW PARTNERSHIP INITIATIVE TO IMPROVE HEALTH DISPARITIES

EVENTS

HEALTH AI ASSURANCE LAB VIRTUAL WEBINAR

EDUCATION

SEQUENCE BOOT CAMP & HEALTH AI
CALL FOR R CLUB MENTOR

IN THIS ISSUE

Section 1 - NEWS

Section 2 - EVENTS

Section 3 - FUNDING

Section 4 - EDUCATION

[UMCCTS
HOME](#)

[NEWS](#)

[EVENTS](#)

[EDUCATION](#)

[FUNDING](#)

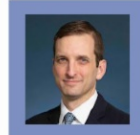
NEWS

CONGRATULATIONS TO OUR NEWEST PILOT PROJECT PROGRAM AWARD RECIPIENTS



CENTER FOR CLINICAL AND
TRANSLATIONAL SCIENCE

Pilot Project Program (PPP) Awards



The three project teams and project titles (From L to R):

“CELiD Gene Therapy for the Treatment of Type I Diabetes”

PI: Maurizio Cattaneo, PhD, Research Professor, Francis College of Engineering, Department of Chemical Engineering, University of Massachusetts Lowell and

Co-PI: Sylvain Cecchini, PhD, Associate Professor and Director of AAV manufacturing facility at UMass Chan Medical School

“3D-Printing of Bioresorbable, Micropatterned Vascular Grafts for Arterial Regeneration”

PI: Yonghui Ding, PhD, Assistant Professor, Department of Biomedical Engineering, Worcester Polytechnic Institute and

Co-PI: Douglas Jones, MD, Associate Professor, Division of Vascular Surgery, University of Massachusetts Chan Medical School

“Circulating Growth Factors as Biomarkers for Risk of Adverse Opioid Outcomes”

PI: Stephanie Puig, PhD, Assistant Professor, Department of Psychiatry, Department of Neurobiology, University of Massachusetts Chan Medical School and

Co-I: Stephanie Carreiro, MD, PhD, Associate Professor, Department of Emergency Medicine, Division of Medical Toxicology, University of Massachusetts Chan Medical School

Announcing the formation of a partnership initiative to transform public health in Worcester by the use of a data-sharing platform developed at UMass Chan Medical School

This new partnership, Worcester Integrated Health Data Exchange (WIHDE), is a

pivotal initiative aimed at transforming public health in Worcester by providing a secure environment for sharing health data across the city's healthcare organizations.

Adrian Zai, MD, PhD, MPH, Director of Research Informatics, Department of Population and Quantitative Health Sciences, and his team's data-sharing platform is a pivotal piece in this initiative given its potential to hurdle the barriers researchers currently face with access to secure data. The Platform for Learning Health System at UMass Chan Medical School (PLUM) is a state-of-the-art cloud-based system designed to embody the core principles of a learning health system.

FULL STORY
HERE

Catalyze Your Research

A "Did You Know?" Series

This month's focus is on the Research Informatics Core (RIC)

Services offered by RIC

Clinical Data Access: Provide clinical data from UMass Memorial Health's electronic health system (Epic) for feasibility assessments, patient recruitments, or retrospective studies.

Data Engineering, Data Analytics, and Visualization: Organize and integrate data collected from various sources. Provide statistical, experimental design, analytics, and project management support.

Data Science: Create solutions to complex clinical data-related problems using artificial intelligence methodologies such as natural language processing or machine learning. Preparation for Grant Proposal: Develop data plan design, and access to aggregate-limited data. Assist with budgeting, letters of support, security, and grant writing relating to informatics.

Visit our Website

A Special Announcement from the Bioinformatics Core

As you may remember, our UMass Center for Clinical and Translational Science

(UMCCTS) Bioinformatics Core recently licensed data processing and analysis technology to Via Scientific (<https://www.umassmed.edu/news/news-archives/2023/02/umass-chan-medical-school-licenses-data-processing-and-analysis-technology-to-via-scientific/>).

Announcing an *updated process* for researchers to access core services

Moving forward, Dr. Ozkan Aydemir will serve as core director. He will be the scientific community's point person for service requests such as subscription access to Via's Foundry platform. Custom work beyond what's covered in the standard subscription will be reviewed and quoted to the customer by Dr. Aydemir. Financial management of the core will be handled by the UMCCTS.

We would like to thank Drs. Manuel Garber and AlperKucukural for their years of dedicated service to the Bioinformatics Core. We are pleased to welcome Dr. Aydemir into this role and look forward to making bioinformatics tools such as Via's Foundry available to the UMass Chan research community.

For questions, please contact Nate Hafer at Nathaniel.hafer@umassmed.edu

Visit our Website

EVENTS

Health AI Assurance Lab

Webinar: Wednesday, August 7 from 2:30 - 3:30 p.m.



Moderator

David McManus, MD
Professor and Chair of Medicine
UMass Chan Medical School



Panelist

Francis Campion, MD
Principal Lead
Digital Health and
Group Leader for Health AI
MITRE



Panelist

Apurv Soni, MD
Director
Program in Digital Medicine
UMass Chan Medical School



Panelist

Miles Thompson, MS
AI Assurance Solutions Lead
and Lab Director for the
AI Assurance and Discovery Lab
MITRE



Panelist

Adrian Zai, MD
Chief Research Informatics Officer
UMass Chan Medical School

Join us on **Wednesday, August 7** from **2:30 – 3:30 p.m.** for an informative and engaging webinar on the Health AI Assurance Lab. The first of its kind in Massachusetts, the Lab aims to improve the safety and effectiveness of AI technology in health care.

Featuring a panel discussion with leaders of the Lab from UMass Chan Medical School and MITRE, the webinar will address the purpose of the Lab, available resources and use cases that the Lab can potentially support. Presenters include:

- **David McManus, MD** – Professor and Chair of Medicine, UMass Chan Medical School
- **Francis Campion, MD** – Principal Lead Digital Health and Group Leader for Health AI, MITRE
- **Apurv Soni, MD** – Director, Program in Digital Medicine, UMass Chan Medical School
- **Miles Thompson, MS** – AI Assurance Solutions Lead and Lab Director for the AI Assurance and Discovery Lab, MITRE
- **Adrian Zai, MD** – Chief Research Informatics Officer, UMass Chan Medical School

The Health AI Assurance Lab is a joint effort between the UMass Chan Medical School and MITRE and has been funded in part by a grant from the [Innovation Institute](#) at MassTech Collaborative

[REGISTER HERE](#)



Merrimack Valley Perinatal Health Summit

Advancing Perinatal Mental Health



Thursday, August 15, 2024



8:30 am - 1:05 pm



Westford Regency
219 Littleton Rd, Westford MA

Organized by the Maternal-Child Health Task Force of the Greater Lowell Health Alliance

Features

Jamie Belsito

Keynote

Former MA State Rep.
Founder & Director of the Maternal Mental Health Alliance



12 Workshop Sessions

Topics include trauma-informed care, screening, the role of doulas & partners, EMDR training, lactation & more!
CEUs Available



Scan to visit the event website, view the schedule and speakers, register, or request to be a vendor or sponsor!



This Summit is part of the NaviGate project, which was made possible by the generosity of the attendees at the 2024 Lowell General Hospital Ball for Community Health Initiatives. To read more about the Ball and ways to support Lowell General, please visit www.lowellgeneral.org/Ball

**REGISTER
HERE**

ASSAY GUIDANCE WORKSHOP FOR **HIGH-THROUGHPUT SCREENING AND LEAD DISCOVERY**

SEPTEMBER 24-25, 2024 • FREE TO REGISTER

ELI LILLY AND COMPANY • 1 LILLY CORPORATE CTR • INDIANAPOLIS, IN



**14 TALKS BY EXPERTS FROM GOVERNMENT, INDUSTRY AND ACADEMIA,
NETWORKING OPPORTUNITIES AND HANDS-ON WEBTOOLS TRAINING**

Topics include: reproducibility, assay development, HTS data analysis, biophysical techniques, ADC assay design, DNA-encoded libraries and 3D tissue models for drug discovery



EVENT SITE

<https://ncats.corsizio.com/event/66577f9a927ec907c1c5e162>



**Visit our
Website**

FUNDING

NOT-OD-24-079:

Notice of Special Interest: Women's Health Research

Posted Date: March 26, 2024

Expiration Date: November 5, 2027

In alignment with the White House Initiative on Women's Health Research, the National Institutes of Health (NIH) is issuing this Notice of Special Interest to highlight interest in receiving research applications focused on diseases and health conditions that predominantly affect women, present and progress differently in women, or are female-specific. The National Center for Advancing Translational Sciences (NCATS) is particularly interested in the following:

- Projects to develop or refine tissue chips and 3-D bioprinting models targeted to women's health and reproductive health, including by designing and conducting research on human-based cell models created from women and/or designed for research on topics specific to addressing women's health.
- Projects to address sex and gender inclusion and risks of bias in data science (e.g., AI/ML, inclusive algorithm development, inclusion of women in datasets).

[More Info](#)

NOT-TR-24-030:

Notice of Funding Opportunity Publication for the NCATS Biomedical Data Translator: Performance Phase

(OT2 Clinical Trial Not Allowed)

Posted Date: July 17, 2024

Application Due Date: August 28, 2024

The National Center for Advancing Translational Sciences (NCATS) issues an Other Transactions Research Opportunity Announcement for organizations to participate in the next phase of the NCATS Biomedical Data Translator (Translator) Program. The purpose of the Translator program is to accelerate biomedical translation by developing a Biomedical Data Translator for the research community that serves as a resource for computationally-assisted exploration of knowledge and construction of new research hypotheses.

[MORE INFO](#)

PA-24-245 & PA-24-247:

PHS 2024-2 Omnibus Solicitation of the NIH, CDC and FDA for Small Business Innovation Research Grant Applications

(Parent SBIR [R43/R44] Clinical Trial Not Allowed)

Posted Date: July 3, 2024

**Application Due Dates: September 5, 2024 with cycles
through April 5, 2025**

This Notice of Funding Opportunity (NOFO), issued by the National Institutes of Health (NIH), the Centers for Disease Control and Prevention (CDC), and the Food and Drug Administration (FDA), invites eligible US small businesses to submit Small Business Innovation Research (SBIR) grant applications.

[MORE INFO: PA-24-245](#)

[MORE INFO: PA-24-247](#)

RFA-OD-24-011:

NIH Research Software Engineer (RSE) Award

(R50 Clinical Trials Not Allowed)

Posted Date: July 17, 2024

Application Due Dates: Cycles through December 2026

The purpose of this NOFO is to provide salary support for exceptional Research Software Engineers (RSEs) that contribute their skills to the development and dissemination of biomedical, behavioral or health related software, tools, and algorithms as well as to the training of prospective users of these tools.

[MORE INFO](#)

EDUCATION & TRAINING

SEQUENCE ANALYSIS BOOTCAMP

Sequence Analysis Bootcamp is a five-week course - starting September 4, 2024. It is designed for anyone interested in learning the basics of Bioinformatics with a focus on deep sequencing data analysis.

The bootcamp will mainly focus on RNA-Seq application to gene expression. First, participants will get familiar with Linux and cluster environment and how to transfer raw data using an FTP client.

In-person class
dates:

September 4th
11th, 18th and 25th

from

9 am – 12 pm
(Preliminary virtual
meeting on 8/28)

[FURTHER DETAILS, SYLLABUS & REGISTRATION](#)



**I-Corps @ NCATS
Regional Short Course**

Register for the upcoming
I-Corps Program

Does your latest discovery have commercial value?

Would a potential "customer" of your research welcome your technology, protocol, or intervention?

The I-Corps Program at the UMCCTS, a UMass Center for Clinical and Translational Science (UMCCTS) initiative, is designed to support the translation of biomedical research by providing early-stage education and strategic guidance to faculty, staff and students during the ideation phase of technology development.

Registration deadline is Sept 3, 2024

Visit our
Website

Mentoring Opportunity – R Club

Are you an experienced investigator with a track record of R-level funding? Are you interested in helping early-stage investigators plan and write successful grants? Please contact Nate Hafer at Nathaniel.Hafer@umassmed.edu to learn more.

Orientation to Clinical Research at UMass Chan

The CCTS Office of Clinical Research (OCR)
continues to host in-person sessions on a monthly basis.

(Registration required)

These sessions provide a high-level overview of the resources and systems that are in use and available at UMass Chan, as well guidance related to account access and other institutional policies around the conduct of clinical research. Further, these sessions will also provide an opportunity to meet some of the OCR staff, learn where the OCR and IRB are physically located, as well as to meet colleagues from other departments who are also engaged in clinical research.

UPCOMING DATES: Sept. 5, 2024 at 9:00 AM

MORE INFO

**Please note: You will need to log in with UMass Chan credentials in order to register. Otherwise, please email OCR staff members Ann Han (ann.han@umassmed.edu) and Eric Stratton (eric.stratton@umassmed.edu) to be manually added to an orientation session.*

Registration is Required

Seating is limited to 20 individuals per session, so we kindly ask that you register for this session.

REGISTER
HERE

K Award Research Writing Group

Next Meetings

Wednesday, August 14th & 28th, 2024~ 4:00-5:00 PM

Virtual, Zoom

The K Award Writing Group supports junior faculty in the development of K-level “Mentored Research Scientist Career Development Award” applications. According to NIH, the award is intended to provide either progressive training or further experience in research related to biomedical, behavioral, or clinical sciences. The mentored approach provides the knowledge required for the K-Awardee to progress into an independent researcher over the award period.

K Award Group meets bi-weekly on the 2nd and 4th Wednesdays of the month from 4-5 pm via Zoom. Attendance at K Award Group meetings can be for information purposes and/or for review of your application. The group meets to outline the K-Award writing process and to review material being submitted by/to the group for input.

To register to attend the K Award Group, please email
Robyn.Leonard@umassmed.edu.

Visit our
Website

Join Us! Clinical Research Professionals Group (CRPG) Meetings

- Want to know/stay up-to-date about changes to regulations, research systems, and research related institutional policies around the campus?
- Want to learn about the various core services that can assist you and your department in your projects and trials?
- Interested in educational resources, trainings, and professional certifications?

Join us for the monthly Clinical Research Professionals Group (CRPG) meetings to hear about these topics and more! More info, meeting schedule, and past meetings can be found on the [CCTS CRPG SharePoint page](#). Want to join the CRPG Distribution Group?

Submit a TRACs Request Here

SHARE YOUR SUCCESS STORY!

Have you had your research published that cites the UMass Center for Clinical and Translational Science? Has your patent been filed on technology developed using Center funding or resources? Did your pilot project receive external grant funding? Share it with us at ccts@umassmed.edu. Sharing your success demonstrates the importance and effect of the Center for Clinical and Translational Science at UMass.

NEWSLETTER SUBMISSIONS

To be included in the CCTS Monthly Newsletter, please send announcements, including a link, to ccts@umassmed.edu.
The newsletter is published the first week of each month.



KATHERINE LUZURIAGA, MD
PI AND DIRECTOR, UMCCTS



TERENCE R. FLOTTE, MD
CO-DIRECTOR, UMCCTS

UNIVERSITY OF MASSACHUSETTS CENTER FOR CLINICAL AND TRANSLATIONAL SCIENCE
55 LAKE AVENUE N, WORCESTER MA 01655

UMASS Center for Clinical & Translational Science (UMCCTS) | 362 Plantation St. AC7-216 |
Worcester, MA 01605 US

[Unsubscribe](#) | [Update Profile](#) | [Constant Contact Data Notice](#)



Try email marketing for free today!