



Clinical & Translational Science Institute
of Southeast Wisconsin

CTSI 500 Stars Initiative

*Replenishing and Increasing Diversity in the
Translational Science Workforce*



Doriel D. Ward, PhD, MPH
Executive Director, CTSI Administration
April 10, 2017



Clinical & Translational Science Institute

of Southeast Wisconsin

- The CTSI 500 Stars Initiative is a ten-year, comprehensive, multi-institutional, educational & workforce diversity plan focused on replenishing, while increasing diversity (under-represented minorities-NIH defined) in the translational science workforce.
- CTSI 500 Stars Initiative works directly with well-established regional partners to move the translational workforce along existing regional diversity pipelines.
- Our initiative takes both direct and supportive roles in the educational & workforce diversity pipeline.



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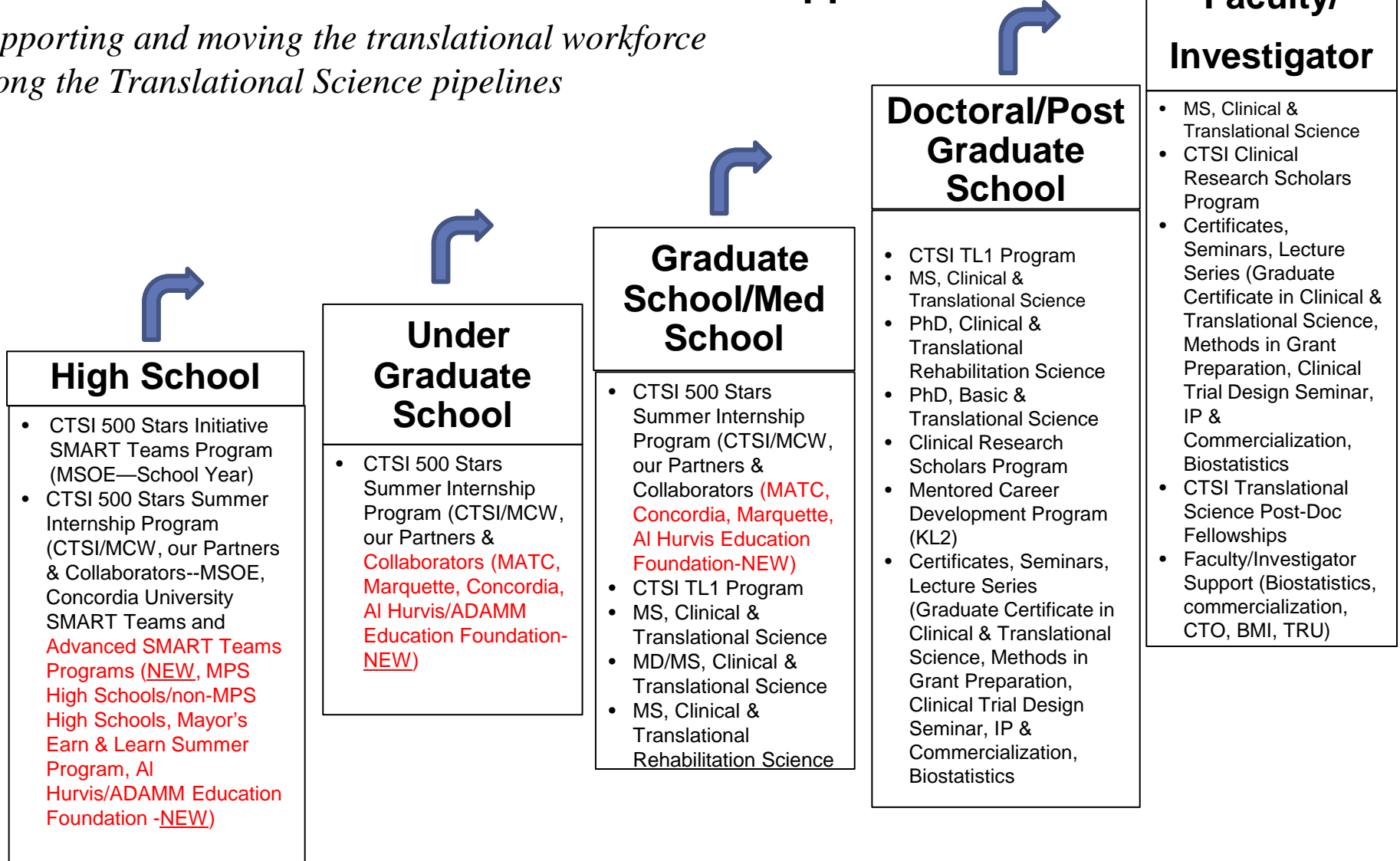
of Southeast Wisconsin

- Our **Vision** is to enrich the southeast Wisconsin translational research workforce through promoting inclusion and diversity.
- Our **Mission** is to provide training and educational opportunities to students of diversity in high school, undergraduate, and graduate programs who are looking for a career in clinical and translational science.
- Our **Goal** is to enroll 500 students over ten years into the CTSI 500 Stars.



CTSI Translational Research Educational Opportunities

Supporting and moving the translational workforce along the Translational Science pipelines



High School

- CTSI 500 Stars Initiative SMART Teams Program (MSOE—School Year)
- CTSI 500 Stars Summer Internship Program (CTSI/MCW, our Partners & Collaborators--MSOE, Concordia University SMART Teams and **Advanced SMART Teams Programs (NEW, MPS High Schools/non-MPS High Schools, Mayor's Earn & Learn Summer Program, Al Hurvis/ADAMM Education Foundation -NEW)**)

Under Graduate School

- CTSI 500 Stars Summer Internship Program (CTSI/MCW, our Partners & Collaborators (**MATC, Marquette, Concordia, Al Hurvis/ADAMM Education Foundation-NEW**))

Graduate School/Med School

- CTSI 500 Stars Summer Internship Program (CTSI/MCW, our Partners & Collaborators (**MATC, Concordia, Marquette, Al Hurvis Education Foundation-NEW**))
- CTSI TL1 Program
- MS, Clinical & Translational Science
- MD/MS, Clinical & Translational Science
- MS, Clinical & Translational Rehabilitation Science

Doctoral/Post Graduate School

- CTSI TL1 Program
- MS, Clinical & Translational Science
- PhD, Clinical & Translational Rehabilitation Science
- PhD, Basic & Translational Science
- Clinical Research Scholars Program
- Mentored Career Development Program (KL2)
- Certificates, Seminars, Lecture Series (Graduate Certificate in Clinical & Translational Science, Methods in Grant Preparation, Clinical Trial Design Seminar, IP & Commercialization, Biostatistics)

Faculty/ Investigator

- MS, Clinical & Translational Science
- CTSI Clinical Research Scholars Program
- Certificates, Seminars, Lecture Series (Graduate Certificate in Clinical & Translational Science, Methods in Grant Preparation, Clinical Trial Design Seminar, IP & Commercialization, Biostatistics)
- CTSI Translational Science Post-Doc Fellowships
- Faculty/Investigator Support (Biostatistics, commercialization, CTO, BMI, TRU)



Exponential Outreach

- Each 500 Star may enter the initiative pipeline at any stage
- Exponential outreach into the community by being ambassadors to friends, families, neighbors, cohorts, etc.
- Every individual in the initiative has the potential to reach others [2 parents/guardians, 2 cousins, 2 aunts/uncles, 2 neighbors, 2 friends/classmates ($1 + 10 \times 50 = \mathbf{550}$)]
- Impact—increase in awareness/diversity for CTSI programs, participation in CTSI activities (CTSI members).



CTSI 500 Stars Program: School Year/Summer SMART Teams Activities



SMART (Students Modeling a Research Topic) brings together teams of high school students and their teacher to work with research scientists to design and construct physical models of the proteins that are being investigated in their laboratories. The primary goal of the SMART Teams is to introduce high school students to translational science by building upon bench research (protein modeling) to better understand clinical and community impact of disease within a patient population.



CTSI 500 Stars Summer Program

Non-SMART Activities: Collaboration with MCW **Apprenticeship in Medicine (AIM)** Program:

- AIM: 6-weeks of mentoring by current medical students, clinical simulations, exposure to important medical problems impacting communities, explore career opportunities with health professionals and specialists, develop an abstract, oral presentation about a disease/condition
- Professional Development Activities
- Field Trip
- Certificate upon program completion



CTSI 500 Stars Summer Program cont'd

Non-SMART Activities: Collaboration with MCW Research Opportunity for Academic Development in Science) (ROADS) Program:

- ROADS: 7-weeks of participation as an active member of a research team, increase understanding of critical issues in basic and clinical research, increase scientific knowledge, exposure to career opportunities in research and health professions, conduct research, develop an abstract and present findings
- Professional Development Activities
- Field Trip
- Certificate upon completion



CTSI 500 Stars Summer Program cont'd

Non-SMART Activities: Placements at MCW, Partners, and Collaborators

- 6-8 weeks of hands-on experiences working with faculty researchers and research teams conducting real-life studies
- 6-8-weeks of direct, hands-on professional experiences working with CTSI teams (Clinical Trials Office, Biomedical Informatics, Translational Research Units—Children's Hospital and Adult: CTSI, CTSI research support teams
- Field Trip
- Certificate upon completion




Educational & Professional Development includes:

- CTSI Lunch & Learns, 3-4 times over the summer:
 - What is Translational Science (TS) & Careers Opportunities in TS?
 - Getting into Undergraduate, Graduate School
 - CV Development
 - End of Summer Wrap-up & Intern Presentations
- CTSI Intern Volunteer Day




Educational & Professional Development



KALEIDOSCOPE
A RESEARCH FORUM WITH A DIVERSITY LENS

**Diverse and Resilient:
The LGBTQ Community
and Health Disparities**



About the Forum:


Diverse & Resilient is a local non-profit organization that seeks to educate about and alleviate health disparities in Wisconsin's LGBT Community. Knowledge and information are the keys to acceptance and understanding. Using their Basic LGBT Toolkit, Diverse & Resilient will introduce basic LGBT terms & descriptions, provide a do's and don'ts list for providers, and discuss the health disparities in the LGBT community.

**Thursday, June 23, 2016
11:45 am –1:00 pm
MCW Discovery Classroom**

This research forum will be facilitated by **Mark Silva** and **Kofi Short**, program coordinators from Diverse & Resilient.


Light lunch will be provided.

Please RSVP at <http://bit.ly/1XchEQZ>
by Friday, June 17, 2016.
Questions? Email us at kaleidoscope@mcw.edu




Sponsored by MCW's Advancing a Healthier Wisconsin (AHW) Endowment and the Office of Student Affairs/Diversity.

Kaleidoscope Film and Research Forum Series



KALEIDOSCOPE
A FILM SERIES WITH A DIVERSITY LENS

**"Unnatural Causes:
Place Matters"**



About the Film:


Why is your street address such a good predictor of your health? Latino and Southeast Asian immigrants have been moving into long-neglected urban neighborhoods such as those in Richmond, California. Segregation and lack of access to jobs, nutritious foods, and safe, affordable housing have been harmful to the health of long-time African American residents, and now the newcomers' health is suffering too.

**Thursday, July 21, 2016
11:45 am –1:00 pm
MCW Alumni Center**

The film showing will be followed by discussion led by **Linda N. Meurer, MD, MPH**, Professor of Family and Community Medicine and Director of the Academic Fellowship in Primary Care Research.

Light lunch will be provided.

Please RSVP at <http://bit.ly/1XchEQZ>
by Friday, July 15, 2016.
Questions? Email us at kaleidoscope@mcw.edu



Sponsored by MCW's Advancing a Healthier Wisconsin (AHW) Endowment and the Office of Student Affairs/Diversity.



CTSI 500 Stars Initiative: New Grant Funding

New Collaborations: Program and Student Stipend Support

- Received new grant from the Al Hurvis/ADAMM Education Foundation: Dr. Doriel Ward
- RFA from Mayor's Summer Jobs Initiative, "Earn and Learn", administered through Employee Milwaukee organization (workforce development board for Milwaukee County)



CTSI 500 Stars Summer Internship Program 2017

- APPLICATIONS ARE CURRENTLY OPEN FOR SUMMER INTERSHIP PROGRAM UNTIL APRIL 30, 2017
- SUPPORT FOR 100 STUDENTS



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THANK YOU!!
Examples of 2016 Student
Placements follow:



CTSI 500 Stars Summer Internship Opportunity Program Placement Labs/Departments/Clinics 2016 include:

Department of Medicine, Division of Gastroenterology, Neurogastroenterology and Mobility Laboratory

Preceptor/Supervisors: Ling Mei, MD, Assistant Professor and Ashley Wuerl, Clinical Research Assistant – Division of Gastroenterology – Medical College of Wisconsin

Institute for Health and Society

Preceptor/Supervisor: John Meurer, MD, MBA, Professor of Pediatrics, Director of the Institute for Health and Society – Medical College of Wisconsin.

Program/Project: Milwaukee Succeeds Parent Education and Support Network

Radiation Oncology – Bergom Laboratory

Preceptor/Supervisor: Carmen Bergom, MD, PhD, Assistant Professor, Radiation Oncology - Medical College of Wisconsin

Program/Project: Breast Cancer Project



CTSI 500 Stars Summer Internship Opportunity Program Placement Labs/Departments/Clinics include:

Physiology Laboratory

Preceptor/Supervisor: David Harder, PhD, Professor of Physiology, Medicine and Pediatrics, Director for Mentoring – Clinical & Translational Science Institute, Kohler Co. Endowed Chair in Cardiovascular Research, Associate Dean for Mentoring, Medical College of Wisconsin

Clinical & Translational Science Institute, Administrative Offices

Preceptor/Supervisor: Jeffrey Whittle, MD, Professor of General Internal Medicine & Terri deRoon-Cassini, PhD, Assistant Professor in the Department of Surgery, Division of Trauma & Critical Care

Program/Project: PTSD Workshop Development and Evaluation

CTSI Biomedical Informatics

Supervisor: Brad Taylor, Chief Research Informatics Officer

Program/Project: Biomedical Informatics Support/Research



CTSI 500 Stars Summer Internship Opportunity Program Placement Labs/Departments/Clinics include:

Clinical and Translational Science Institute, Adult Translational Research Unit (TRU)

Supervisor: Barbara Shimada-Krouwer, RN, Manager Nursing

Program/Project: CTSI Adult Translational Research Unit (TRU)

Center for Bioethics and Medical Humanities

Supervisor: Ryan Spellecy, PhD, Associate Professor Institute for Health and Society/Bioethics

Program/Project: Bioethics Project

Department of Ophthalmology

Preceptor/Supervisor: Judy Kim, MD, Professor, Department of Ophthalmology, Medical College of Wisconsin



CTSI 500 Stars Summer Internship Opportunity Program Placement Labs/Departments/Clinics include:

Department of Obstetrics and Gynecology

Preceptor/Supervisor: Denise Uyar, MD, Associate Professor, Medical College of Wisconsin

Department of Pharmacology & Toxicology

Preceptor/Supervisor: John D. Imig, PhD, Professor of Pharmacology & Toxicology – Medical College of Wisconsin

Program/Project: Novel Therapeutic for Cancer-related Kidney Diseases

Pediatric Emergency Medicine

Preceptor/Supervisor: David Brousseau, MD, MS, Chief Pediatric Emergency Medicine, Children's Hospital of Wisconsin, Medical College of Wisconsin



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CTSI 500 Stars Summer Internship Opportunity Program Placement Labs/Departments/Clinics include:

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Supervisor: Ramona Tenorio, PhD, Assistant Professor, Director, CTSI 500 Stars Initiative, Director, CTSI Pilot Translational and Clinical Studies Program

Program/Project: CTSI 500 Stars Initiative



CTSI Summer Internship Opportunity Program

Placement Labs/Departments/Clinics include:

Department of Pediatrics – Division of Neonatology

Preceptor/Supervisor: Ramani Ramchandran, PhD, Professor – Medical College of Wisconsin

CTSI Biomedical Informatics

Supervisor: Brad Taylor, Chief Research Informatics Officer

Program/Project: Biomedical Informatics Support/Research

Radiation Oncology – Bergom Laboratory

Preceptor/Supervisor: Carmen Bergom, MD, PhD, Assistant Professor, Radiation Oncology - Medical College of Wisconsin

Program/Project: Breast Cancer Project



CTSI Summer Internship Opportunity Program Placement Labs/Departments/Clinics include:

Department of Pharmacology & Toxicology

Preceptor/Supervisor: John D. Imig, PhD, Professor of Pharmacology & Toxicology – Medical College of Wisconsin

Program/Project: Novel Therapeutic for Cancer-related Kidney Diseases

Department of Pediatrics – Division of Neonatology

Preceptor/Supervisor: Ru-Jeng Teng, MD, Associate Professor – Medical College of Wisconsin