

## Collegiate Translational Medicine Program (CTMP) 2018-19 Academic Year Syllabus

### COURSE DIRECTORS

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### COURSE MANAGERS

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### OVERVIEW

The Collegiate Translational Medicine Program (CTMP) is a mentored, clinically-oriented translational research experience for undergraduates, offering training in translational research by exposure and immersion into specific research projects currently being conducted in the Department of Medicine. The CTMP includes 3 integrated components: 1) a didactic curriculum focused on the basic science and biomedical underpinnings of ongoing translational medicine projects in pharmacogenomics, anemia and transfusion medicine, inflammation, the microbiome and oral health, as well as research and professional development training, 2) experiential work collecting and analyzing clinical and health outcomes data for these translational medicine projects, and 3) a mentored experience pairing Fellows with a faculty mentor leading one of these translational projects. Over the course of at least one academic year, Fellows, working in small groups, will develop expertise in human subject research, data collection, and team science.

### CTMP CERTIFICATE

Upon successfully completing the program requirements, fellows will receive a certificate of completion at the end-of-year CTMP celebration in May 2019.

Required CTMP Fellowship activities include:

- Serve as an RA for 10 weeks during the summer quarter, gaining proficiency in skills related to patient recruitment, informed consent, and survey administration both in person and over the phone
- Participate in the summer RA enrichment series
- Continue serving as a Hospitalist Project RA for 10 hours per week during the academic school year. If your CTMP research group involves time spent in another lab, you may dedicate an agreed upon number of hours out of the required 10 per week toward data collection for your CTMP research project. More information about this will be provided to you. Other activities related to your CTMP research project, including mentor meetings, analyses, etc., are separate from the RAship.
- Recommended: Co-author an abstract with your CTMP research group and present at DOM research day on March 12, 2019, or to the associated mentor's respective lab group.
- Submit an end-of-year abstract and report to Dr. Prochaska and Ms. Harris. You'll present on your research at the final journal seminar series on May 13.
- Attend and actively participate in 5 out of 7 CTMP Journal Club sessions

### HOSPITALIST PROJECT RESEARCH ASSISTANTSHIP

**Summer:** CTMP fellows work as a Hospitalist Project RA full time for 10 weeks in the summer quarter.

**Fall, Winter, and Spring quarters:** CTMP Fellows will work as an RA for 10 hours per quarter.

All RAs are expected to complete some or all of these 10 hours as a Hospitalist Project RA. Some CTMP research groups require fellows to complete hours in a second lab. The number of hours allocated to the second lab will vary based on research project group assignment and will be provided over email.

Please note that meetings with your mentor, time spent conducting analyses, preparing abstracts and posters, or writing reports are separate from the 10 hour RA ship requirement.

### **SUMMER RA ENRICHMENT SERIES**

CTMP fellows participate in the following enrichment seminars:

- June 20: Introduction to Translational Research, Micah Prochaska, MD, MS, Instructor of Medicine
- July 23: Informed Consent, Office of Clinical Research Staff
- August 2: Motivational Interviewing, Nicole Gier, LCSW, CCP Social Worker, and Kelsey Bogue, Associate Director of Training and Communications
- August 7: Patient and Family Insights, Patient and Family Insights Team
- August 9: Hospitalist Project: Past, Present, and Future, Micah Prochaska, MD, MS, Instructor of Medicine

### **CTMP RESEARCH GROUP PROJECT**

After filling out a project preference form in August 2018, you will receive an email notifying you about your CTMP group assignment in September. Kelsey Bogue will help arrange your first meeting with your group for Fall Quarter. After this first meeting, you will work with your mentor to schedule future meetings.

You will meet with your mentor at least once per month during the academic school year. In January it is recommended that you submit an abstract to Department of Medicine Research Day that takes place in March, although we understand this may not be possible for all groups. If accepted, you will create and present a poster at this conference. More information about deadlines will be provided over email.

All groups will be expected to submit a final abstract and present their findings at the CTMP end of year celebration and poster session.

The four research project group mentors are:

<b>Project Focus</b>	<b>Mentors</b>	<b>Emails</b>
Machine Learning and Translational Medicine	Ishanu Chattopadhyay, PhD, Assistant Professor of Medicine, Hospital Medicine	<a href="mailto:ishanu@uchicago.edu">ishanu@uchicago.edu</a>
Clinical Implementation of Pharmacogenomic Research	Peter O'Donnell, MD, Assistant Professor of Medicine, Hematology/Oncology	<a href="mailto:podonnel@medicine.bsd.uchicago.edu">podonnel@medicine.bsd.uchicago.edu</a>
IBD and the Human Virome	Vivian Lee, MD, MS, Hospitalist Scholar; and Gene Chang, MD, Professor of Medicine, Gastroenterology	<a href="mailto:Vlee1@medicine.bsd.uchicago.edu">Vlee1@medicine.bsd.uchicago.edu</a> ; <a href="mailto:echang@medicine.bsd.uchicago.edu">echang@medicine.bsd.uchicago.edu</a>
Anemia, Transfusion, and Fatigability	Micah Prochaska, MD, MS, Instructor of Medicine, Hospital Medicine	<a href="mailto:mprochas@medicine.bsd.uchicago.edu">mprochas@medicine.bsd.uchicago.edu</a>

## **END-OF-YEAR ABSTRACT AND REPORT**

You will submit an end of year abstract and report to Dr. Prochaska and Mary Harris. More details about this report will be provided to you. You will also present your findings at the last Journal Seminar of the year.

## **CTMP JOURNAL CLUB**

Dr. Micah Prochaska will lead the Journal Club, which will take place from 4:40-6:00 on the second Monday of the month. Dates are listed below. The first 20 minutes will include a check in with Dr. Prochaska about research projects and are a chance to discuss abstract and poster preparation, data analyses, and challenges experienced working in the lab. The last hour will feature a presentation from a translational researcher at the University of Chicago.

Guest speakers and any pre-readings will be announced over email in advance. Fellows will be expected to prepare questions in advance to help facilitate discussion.

### **October 8, 2018 (Billings Hospital M214)**

Ishanu Chattopadhyay, PhD  
Assistant Professor of Medicine, Section of Hospital Medicine

### **November 12, 2018 (Billings Hospital M214)**

Vivian Lee, MD, MS  
Hospitalist Scholar

Eugene Chang, MD  
Martin Boyer Professor of Medicine, Section of Gastroenterology

### **December 10, 2018**

CANCELLED

### **January 14, 2019 (Billings Hospital M214)**

Thomas Lu, MD, PhD  
Fellow, Section of Gastroenterology

### **February 11, 2019 (Billings Hospital M214)**

Peter O'Donnell, MD  
Assistant Professor of Medicine, Hematology & Oncology

### **March 11, 2019 (Billings Hospital M214)**

David Meltzer, MD, PhD  
Director, CTMP Program  
Fanny L. Pritzker Professor of Medicine

### **March 12, 2019**

DEPARTMENT OF MEDICINE RESEARCH DAY  
12-4 pm

### **April 8, 2019 (Billings Hospital H300)**

Guest Speaker: TBA

### **May 13, 2019 (Billings Hospital H300)**

CTMP group project presentations and end-of-year celebration

## **PROGRAM EVALUATIONS**

As a part of the program, you are asked to complete three surveys as a part of CTMP: at the beginning of the

fellowship, at the end of the summer RAship, and at the end of the program. These evaluations will be sent to you through Redcap.

At the end of the CTMP program, each CTMP mentor will provide feedback on each fellow's performance throughout the program through a short evaluation to the CTMP program directors. Each mentor must confirm that the fellow has successfully completed and participated in all research project components before a certificate is issued.