

Study Design



Illumina will be offering a DNA re-sequencing workshop using the Nextera™ DNA Flex Library Preparation Kit. This is hands-on experience of Illumina's comprehensive DNA re-sequencing workflow, using your samples.



Library preparation & best practices



Experimental design for DNA re-sequencing projects



Data analysis in BaseSpace™ Sequence Hub

Space is limited. Registration required.

Details & registration online, www.cmistuw.org/events

**Your samples.
Illumina's technology.**

April 10 & 11

2019

illumina®

CMiST seminar series

Microbiome Matters

Come for the coffee, stay for the conversation!

SPEAKER

KELLY HOON

Executive Sales Specialist
Microbial and Infectious Disease
Illumina

TOPIC

THE ROAD TO METAGENOMICS:

From bacterial profiling of isolates to
shotgun sequencing of the complete
microbiome

DEETS

THURS, MAR 7 | 1:00-2:00 PM

Foege Auditorium | Room S060

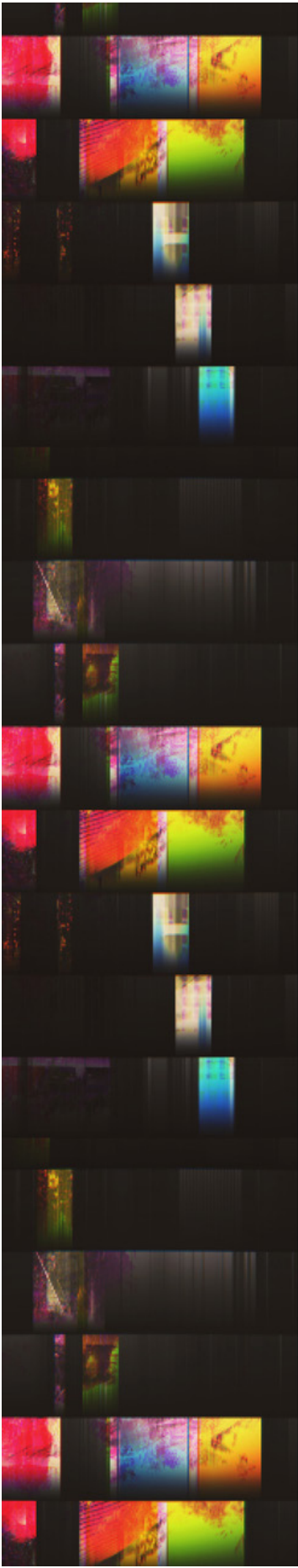
www.cmistuw.org/events

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www.cmistuw.org | Twitter @cmist_uw



CMiST's quarterly seminar series

Microbiome Matters

SPEAKER

GARY WU, MD

Ferdinand G. Weisbrod Chair in Gastroenterology
Co-Director, PennCHOP Microbiome Program
Perelman School of Medicine
University of Pennsylvania

TOPIC

Diet, the gut microbiome, & its
metabolome in health & disease

DEETS

Thurs, April 5 | 3-4 pm
South campus center | room 316
(online www.cmistuw/events)

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UW Medicine
THE CENTER FOR MICROBIOME
SCIENCES & THERAPEUTICS (CMiST)

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CMiST's quarterly seminar series

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SPEAKER

KAREN GUILLEMIN, PHD

Professor | Biology
Institute Molecular Biology
Founding director |
Microbial Ecology & Theory of Animals (META) Center
University of Oregon

TOPIC

Teeming with microbes:
lessons from the zebrafish
intestine

DEETS

Thurs, May 31 | 1:30-2:30 pm
Health Sciences Building
Room K069 (click for map)



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the
**Human
Microbiome**

Each one of us has a unique microbiome that is as personal as a finger print.



95%

of our microbiota is located in our gastrointestinal tract.

150:1

microbial genes to human genes.

100 trillion symbiotic microbes live in and on every person and make up the human microbiota.

160 **90%**

the number of species each person is host to.

it is believed that of disease can be linked to the gut and the health of the microbiome.

>10,000

of different microbial species that researchers have identified living in and on the human body.

1,000

the number of species harbored by humans.

500,000

The number of metabolites our microbiota are producing.



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www.cmistuw.org/batchid



batch id

Facilitate Microbiome Research.

ADVANCE YOUR RESEARCH BEYOND IDENTIFICATION TOWARDS FUNCTION WITH BATCH ID.

WHY BATCH ID?

Each of us has a unique combination of bacteria that impact our risk of developing disease, our response to food, and the efficacy of drug treatments. Uncovering the functions of such bacteria and how they are personalized to us offers unrivaled therapeutic potential.

Microbial function discovery requires a culture-based approach that enables the isolation of clinically relevant strains that can be compared and interrogated to highlight their therapeutically actionable behavior.

ABOUT BATCH ID

Batch ID is CMiST's (Center for Microbiome Sciences & Therapeutics) core services lab for microbiome researchers. CMiST opened their doors in 2017 and is the UW's designated microbiome research center.

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UW Medicine
THE CENTER FOR MICROBIOME SCIENCES & THERAPEUTICS (CMiST)

OUR CORNERSTONE SERVICE

Bacterial Identification + Selection

Rapidly generated bacterial isolate libraries, refined bacterial culture techniques, access to biorepository of bacterial strains isolated from clinically relevant conditions.



Submit an online project form.



We'll discuss your project in detail.



We'll design a work plan.



Ship your us your samples.



You'll receive a report of your bacterial strains.



You'll receive frozen stocks of your strains.

Other Services Available

- Peptide Mass Profiling
- Metabolic Analysis
- 16s Sequencing
- Microbiological Assays
- Immuno-Phenotyping
- Whole Genome Sequencing
- Gnotobiotic Colonization

Bench to Bedside

By inviting clinicians to join our lab, CMiST hopes to bridge the gap between clinicians and scientists and drive research forward.

As interest in the microbiome continues to grow combined with our understanding of its importance, it is clear that we are in the middle of a biomedical research revolution as both scientists and clinicians try to understand the complexities of the relationship between microbiota and human health and disease. As part of our mission, we hope to lead this revolution at the UW by acting as a conduit to further increase the level of communication, collaboration, and compassion between scientists and clinicians.

Communication
Compassion
Collaboration

www.cmistuw.org/bench-to-bedside

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Working knowledge of microbiology, immunology, and/or the microbiome



Develop a hypothesis that addresses a human disease and design a sound study to address it



Learn biological assays and be able to perform them independently



Effective presentation of results to an audience of all levels and backgrounds



Publication of a paper in a reputable scientific or medical journal

Exploring the gut microbiome

with

Vivo Art is moving beyond using scientific methods as a tool to produce art.

Vivo Art is using creative freedom of thinking and expression used by artists to stimulate creative scientific thought.

to advance
science.