



FASEB

Federation of American Societies
for Experimental Biology

Science Research Conferences

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Gastrointestinal Tract XVII: Current Biology of the GI tract, Mucosa, Microbiota, and Beyond

July 30-August 4, 2017

Steamboat Springs, Colorado

Co-Organizers:

Andrew S. Neish, MD

Emory University School of Medicine
Atlanta, Georgia

Gail A. Hecht, MD

Loyola University
Chicago, Illinois

Mark R. Frey, PhD

Children's Hospital Los Angeles and University of Southern
California
Los Angeles, California

Program Agenda

SUNDAY July 30

4:00-9:00 PM

Conference Registration

5:00-6:00 PM

FASEB SRC Welcome Reception

6:00-7:00 PM

Dinner

7:00-8:00 PM

Keynote Address: *Genes, Microbes, and Gut immunity*

Ramnik Xavier, MD

Massachusetts General Hospital, Boston, MA

MONDAY July 31

Breakfast 7:00-8:30

8:30 AM-12:30 PM

Session 1: Monitoring and responding to the microbiota

Chair: Theresa Pizarro, PhD

Case Western Reserve University, Cleveland, OH

8:30-8:45: Welcome from FASEB

8:45-9:15: Scott Snapper, MD, PhD

Boston Children's Hospital, Boston, MA

Gut microbiota and immune inflammatory responses

9:15-9:45: Dana Philpott, PhD

University of Toronto, Toronto, Canada

Nod-like receptors and host-microbial interactions

9:45-10:15: Karen Edelblum, PhD

Rutgers New Jersey Medical School, Newark, NJ

Intraepithelial lymphocyte surveillance of the epithelial-microbial interface

10:15-10:45: FASEB sponsored coffee break and group photo

10:45-11:15: Ken Cadwell, PhD

NYU Langone Medical Center, New York, NY

Autophagy in host defense, tolerance, and homeostasis

+Two short talks selected from abstracts

11:15-11:30

11:30-11:45

11:45 AM-12:30 PM

ePoster session #1 (Eight five-minute quick shot presentations)

12:30-2:00 Lunch

2:00-4:00 Free time

4:00-6:00

Poster session #1

6:00-7:00 Dinner

7:00-9:00 PM

Session 2: Mucosal injury and restitution

Chair: Sean Colgan, PhD

University of Colorado, Denver, CO

7:00-7:30: Asma Nusrat, MD

The University of Michigan, Ann Arbor, MI

The role of inflammation in intestinal mucosal wound repair

7:30-8:00: Eoin McNamee, PhD

University of Colorado, Denver, CO

Monocyte-derived microRNA's shape intestinal inflammation

8:00-8:30: Marshall Montrose, PhD

University of Cincinnati, Cincinnati, OH

New models and mechanisms of gastric wound repair

+Two short talks selected from abstracts

8:30-8:45:

8:45-9:00:

TUESDAY August 1

At breakfast: Meet-the expert mentoring session #1, "From Trainee to Faculty: Making the Jump"

This session will feature the Assistant Professor-level speakers at the meeting, and will be primarily geared towards trainees interested in how these junior investigators made the critical transition from being trainees to getting their first faculty appointment. Signup sheets will be available on Sunday and

Monday, capped at six participants per participating faculty. Attendees will be divided up among breakfast tables with one expert per group of six for direct interaction and discussion.

9:00-12:30 AM

Session 3: Microbiota-host cross-talk

Chair: Jesus Rivera-Nieves, MD

University of California, San Diego, CA

9:00-9:30: Suzanne Devkota, PhD

Cedars-Sinai Medical Center, Los Angeles, CA

Short term fasting improves barrier integrity through modulating microbes

9:30-10:00: Gary Wu, MD

University of Pennsylvania School of Medicine, Philadelphia, PA

Modulation of gut microbiota to treat human disease

10:00-10:30: Andrew Gewirtz, PhD

Georgia State University, Atlanta, GA

Gut microbiota and chronic intestinal inflammation

10:30-11:00 FASEB sponsored coffee break

11:00-11:15

11:15-11:30

+Two short talks selected from abstracts

11:30-12:30

ePoster session #2 (Eight five-minute quick shot presentations)

12:30-2:00 Lunch

2:00-4:00 Free time

4:00-6:00

Poster session #2

6:00-7:00 Dinner

7:00-9:00 PM

Session 4: Signaling mechanisms coordinating gastrointestinal homeostasis and response to inflammation

Chair: Jason Mills, MD PhD

Washington University School of Medicine, St. Louis, MO

7:00-7:30: Peter Dempsey, PhD

University of Colorado, Denver, CO

Metalloproteases and the intestinal response to inflammation

7:30-8:00: Cormac Taylor, PhD

University College Dublin, Dublin, Ireland

Influence of hypoxia on toll-like receptors and host immune and inflammatory responses

8:00-8:30: Christopher Dekaney, PhD

North Carolina State University, Raleigh, NC

Paneth cells in the intestinal injury response

+Two short talks selected from abstracts

8:30-8:45:

8:45-9:00:

WEDNESDAY August 2

At breakfast: Meet-the expert mentoring session #2, "Sustaining and surviving your career"

Similar format to the Tuesday session, but featuring senior members of the field, drawn from our pool of senior invited speakers and session chairs. Attendance will be open to both trainees and junior faculty.

9:00 AM-12:00 PM

Session 5: The stem cell niche, inflammation, and cancer

Chair: Melissa Wong, PhD

Oregon Health & Science University, Portland, OR

9:00-9:30: Linda Samuelson, PhD

University of Michigan Medical School, Ann Arbor, MI

Control of the stem cell niche by Notch

9:30-10:00: James Goldenring, MD PhD

Vanderbilt University School of Medicine, Nashville, TN

Endosomal trafficking in polarity and cell fate

+Two short talks selected from abstracts

10:00-10:15:

10:15-10:30:

10:30-11:00: FASEB sponsored coffee break

11:00-11:30: Christopher Williams, MD PhD

Vanderbilt University School of Medicine, Nashville, TN

Micronutrients in intestinal stem cell biology and cancer

+Two short talks selected from abstracts

11:30-11:45

11:45-12:00

12:00-1:30 Lunch

1:30-3:00 PM Career Development Session #1:

The Art of Publishing Your Science

This session will feature Dr. Richard Peek, Editor of *Gastroenterology* and Dr. Kim Barrett, Editor of *Journal of Physiology*. The topical focus of this session will be strategies to prepare work for successful publication in high-impact journals. It will begin with a brief panel presentation of the key issues, challenges, and barriers to publication in the current scientific landscape, with an emphasis on preparing early-career scientists to make the most of their work. Following the formal panel presentation there will be a Q&A session to provide individual access to the panelists' expertise.

3:00-4:30 PM Career Development Session #2:

Writing for a K award with an eye towards your first R01

This session will feature Dr. Beth McCormick (U. Mass) and Dr. Wayne Lencer (Harvard) moderate a discussion with Dr. David Saslowsky and Dr. Patricia Greenwel, program directors at NIDDK for career development awards and several R01-based programs, respectively. The panel will discuss grant writing and logistics of acquiring career development awards and transitioning from them to independent R01 grants. A particular focus will be on common mistakes and how to avoid them.

4:30-6:00 Free time

6:00-7:00 Dinner

7:00-9:15 PM

Session 6: Transport and Barrier

Session Chair: Pradeep Dudeja, PhD

University of Illinois College of Medicine, Chicago, IL

7:00-7:30: Chang-Hyon Chris Yun, PhD

Emory University School of Medicine, Atlanta, GA

Regulation of human NHE3 by ubiquitination

7:30-8:00: Stephen Keely, PhD

Royal College of Surgeons in Ireland, Dublin, Ireland

Bile acids as coordinators of microbial/host communication and targets for intestinal disease

+Four short talks selected from abstracts

8:00-8:15:

8:15-8:30:

8:30-8:45:

8:45-9:00:

THURSDAY August 3

9:00 AM-12:30 PM

Session 7: Host-pathogen Interactions

Session Chair: Simon Keely, PhD

University of Newcastle, Newcastle, Australia

9:00-9:30: Yana Zavros, PhD

University of Cincinnati, Cincinnati, OH

The role of epithelial signaling in H. pylori infection

9:30-10:00: Vanessa Sperandio, PhD

The University of Texas Southwestern Medical Center, Dallas, TX

Pathogen quorum sensing and competition with the commensal microbiota

+Two short talks selected from abstracts

10:00-10:15

10:15-10:30

10:30-11:00 FASEB sponsored coffee break

11:00-11:30: Juliane Bubeck-Wardenburg, MD, PhD

The University of Chicago, Chicago, IL

Impact of B. fragilis enterotoxin on colonization and gut microbiota

11:30-12:00: James Casanova, PhD

University of Virginia School of Medicine, Charlottesville, VA

Active suppression of autophagy by Salmonella: The best offense is a good defense.

+Two short talks selected from abstracts

12:00-12:15:

12:15-12:30:

12:30-2:00 PM Lunch

2:00-5:00 FASEB Group Activity

7:00-9:15 PM

Session 8: Novel approaches to GI Biology

Session Chair: Juanita Merchant, MD PhD

The University of Michigan, Ann Arbor, MI

7:00-7:30: Rheinallt Jones, PhD

Emory University School of Medicine, Atlanta, GA

Host-microbial interactions and stem cell dynamics in the Drosophila intestine

7:30-8:00: François Leulier, PhD

EMBO Young Investigator Award

Institut de Génomique Fonctionnelle de Lyon, Lyon, France

Model systems evaluation of gut growth and development

8:00-8:30: John Rawls, PhD

Duke University, Durham, NC

The zebrafish as a model of gut development

8:30-9:00: Matthew Grisham, PhD

Texas Tech University Health Sciences Center, Lubbock, TX

Humanized mice as a model to study human GI disease

+One short talk from abstracts

9:00-9:15

FRIDAY August 4

Breakfast, departures

END OF CONFERENCE

For additional information contact:
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