

# DHC Newsletter

*Bench-to-Bedside Research in Pediatric Digestive Disease*

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## Request for Pilot and Feasibility Applications



The Digestive Health Center (DHC) is accepting applications for pilot projects to conduct basic, translational, patient based, or outcomes research broadly relating to pediatric digestive disease. Applications will be considered in all areas of digestive disease research with particular emphasis on the following DHC

research themes: 1) Chronic Liver Disease 2) Inflammatory and Diarrheal Diseases 3) Obesity and the Digestive System and 4) Development and Digestive Diseases.

Funds are intended to allow investigators to collect preliminary data sufficient to support an application for independent research through traditional NIH mechanisms. Funding for projects will range from \$40,000 to \$50,000 depending on budgetary needs and number of selected applications. Eligible applicants must have a faculty appointment. DHC membership is not required.

Applications are due **Monday December 3, 2012 at 5:00 pm.** The application forms and submission guidelines are available on the [website](#).

For further information contact: Aaron Zorn, PhD, Pilot and Feasibility Program Director at [aaron.zorn@cchmc.org](mailto:aaron.zorn@cchmc.org) or Cindy Wetzel, PhD, DHC Program Manager at [cynthia.wetzel@cchmc.org](mailto:cynthia.wetzel@cchmc.org).

## New This Year: The Markham Family Award

The DHC invites applications for an additional Pilot and Feasibility Award focused on liver diseases and transplantation in children. Examples of areas of translational, clinical and outcomes research include pathogenesis and biomarkers of liver diseases, acute liver failure, and liver transplantation in children. Eligibility criteria and ap-

plication deadline are similar to DHC applications. The \$40-50,000 award is made possible by a generous donation from the Markham Family.

The application forms and submission guidelines are available on the [website](#). For further information contact: Cindy Wetzel, PhD, at [cynthia.wetzel@cchmc.org](mailto:cynthia.wetzel@cchmc.org).

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## Save the Date- Annual Scientific Retreat

The DHC will host its Annual Scientific Retreat and External Advisory Board Meeting on **Tuesday February 26, 2013**. The day will include a poster session and keynote address by Dr. Brent Polk from Children's Hospital of Los Angeles. Abstracts are due **Friday February 8, 2013**. You do not have to be a member of the DHC to submit an abstract. This is an outstanding opportunity to present your digestive disease related work. Prizes will be given to students and trainees for the best poster presented at the meeting. Stay tuned for more details.

February 2013

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8 Abstracts Due	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26 Retreat	27	28		

## New Subsidies For Core Services



Members of the DHC are eligible to receive subsidies at the following Cores at Cincinnati Children's and University of Cincinnati:

1. Bioinformatics
2. Gene and Protein Expression (includes Next Generation Sequencing, Microarray, Flow Cytometry, and Luminex)
3. Integrative Morphology (includes Routine Histology, EM, Confocal and 2-Photon Microscopy, as well as Laser Capture Microdissection)
4. Clinical Component- Data Analysis and Management.

Below is a list of new subsidies for the core services. For a complete list of core subsidies visit our [website](#). All subsidies are subject to change based upon the availability of funds.

### Bioinformatics:

- DHC will subsidize the cost of a single Gene-

spring and/or Avadis NGS license fee by providing \$200 towards the total charge.

### Gene and Protein Expression:

- DHC will subsidize the cost of the Gene Variation and Gene Discovery service (i.e. Next-Generation Sequencing, SNP genotyping, DNA sequencing) by providing 25% of the total charge up to \$2,000 per PI per year.
- DHC will subsidize the cost of the Analyzer fee by providing \$8 towards the \$37/hour rate for up to 75 hours per PI per year.
- DHC will subsidize the cost of performing a Luminex assay by providing \$1,000 towards the total cost per PI per year.

### Integrative Morphology:

- The charge for DHC members to use the 2-Photon and confocal microscopes at the Live Microscopy Core is \$20 per hour during the week and \$10 per hour on weekends. The first time a DHC member uses the Live Microscopy Core, they will receive 20 hours at no cost.
- The first 10 hours to use the Laser Capture Microdissection instrument is provided by the DHC charge is \$20 per hour.

We encourage you to take advantage of these subsidies to advance your digestive disease related research.

## Fall Seminar Series

Our fall seminar series will include the following external distinguished speakers:

- Binita Kamath, MD; Hospital for Sick Children
- Curt Hagedorn, MD; University of Utah
- Gianfranco Alpini, PhD; Texas A&M
- Scott Friedman, MD; Mount Sinai School of Medicine

Dr. Friedman will be the 2012 William and Rebecca Balistreri Lecturer for Translational Research in Hepatology.

Once again the fall seminar series will include presentations of "work in progress" by the current Pilot and Feasibility Recipients (Matt Flick, PhD;



Geraldine Guasch, PhD and Nives Zimmermann, MD). We encourage you to attend these presentations to learn about their research projects and to provide feedback to these investigators on experimental design.

See page 4 for a complete schedule.

## Imaging & Cytometry Research Day Announcement



Register now for the 2<sup>nd</sup> Annual Imaging and Cytometry Research Day on Wednesday, September 19, 2012 at Cincinnati Children's. The day will include presentations by:

- Zibgniew Darzynkiewicz, MD, PhD from New York Medical College, an expert in the field of cell cycle, apoptosis, and autophagy
- Bill Telford, PhD, Director of the Experimental Transplantation and Immunology

Flow Cytometry Facility at the NIH, who will discuss novel uses for solid-state lasers in flow cytometry

- Edith Janssen, PhD from CCHMC who will present her studies on dendritic cell imaging and analysis

Additionally, there will be breakout sessions on: Microscopy, Stem Cells, Choosing a Fluorochrome, Sample Preparation for Cell Sorting, Cell Cycle/Apoptosis, and Imagestream Applications as well as a poster session. Travel awards will be given to the best poster presentations. Visit the [event website](#) for free registration, and abstract submission. For more information contact Nicole White at [amanda.white@cchmc.org](mailto:amanda.white@cchmc.org).

## New Digestive Health Center Members

The Digestive Health Center is pleased to welcome three new members:

Dave Hildeman, PhD is an Associate Professor in the division of Cellular and Molecular Immunology, Department of Pediatrics at Cincinnati Children's. Dr. Hildeman's digestive disease research focuses on investigating the role of T cells and prior infections in controlling the gut microbe as well as sepsis susceptibility.



Stacey Huppert, PhD is an Associate Professor and new faculty member in the Division of Gastroenterology, Hepatology, and Nutrition, Department of Pediatrics at Cincinnati Children's. She

investigates the molecular factors that regulate the morphogenesis and maintenance of the liver biliary system.

Yi Zheng, PhD is Professor and Co-Director of the Cancer and Blood Diseases Institute as well as the Director of Division of Experimental Hematology and Cancer Cell Biology, Department of Pediatrics at Cincinnati Children's. Dr. Zheng's digestive disease research program is examining how RhoGTPases and mTOR signaling regulate intestinal stem cell populations as well as examining the role of Cdc42GAP in both liver repair and metabolism.



## Interested in Becoming a Member?

By becoming a DHC member, you will receive subsidies on many core services and resources. Your orders will receive priority at the cores. Membership is open to all Cincinnati Children's and

University of Cincinnati principal investigators involved in digestive disease research. If you are interested in joining, visit [our website](#) for further instructions.

For all publications, please acknowledge the DHC as follows:

**“This project was supported in part by PHS Grant P30 DK078392 (include the name of the core that you used of the Digestive Disease Research Core Center in Cincinnati).”**

## Seminar Series- Tuesdays at Noon, Room S6.125

Date	Presenter	Title
9/11/12	Ardythe Morrow, PhD CCHMC: Neonatology	“Evidence that Early Microbiome Phenotypes Predict Later Onset of Necrotizing Enterocolitis and Death in Preterm Infants”
9/18/12	Binita Kamath, MD Hospital for Sick Children	“Alagille Syndrome: From Liver Disease to Stroke”
9/25/12	Matthew Kofron, PhD CCHMC: Confocal Imaging Core	“New Technologies Available at the CCHMC Confocal Imaging Center”
10/2/12	Matthew Flick, PhD CCHMC: Experimental Hematology	“Coagulation Factors and the Pathogenesis of Non-Alcoholic Fatty Liver Disease”
10/9/12	Min Liu, PhD UC: Dept of Pathology	“Ginsenoside Rb1 Reduces Fatty Liver in Obese Rats”
10/16/12	Nives Zimmermann, MD CCHMC: Allergy and Immunology	“Regulation of Eosinophil Accumulation in Disease”
10/23/12	Geraldine Guasch, PhD CCHMC: Developmental Biology	“Using Shh Knockout Mouse Model to Investigate Mechanism of Persistent Cloaca in Human”
10/30/12	Michael Barnes, PhD CCHMC: Rheumatology	“Cincinnati Biobank: Sample Management at Cincinnati Children’s Hospital”
11/6/12	Curt Hagedorn, MD University of Utah	“New Approaches for Identifying Biomarkers & Mechanisms of Inflammatory Digestive Diseases”
11/13/12	AASLD Meeting No Conference	
11/20/12	Thanksgiving Week- No Conference	
11/27/12	Gianfranco Alpini, PhD Texas A&M	“Proliferative and Secretory Heterogeneity of the Biliary Epithelium”
12/4/12	Scott Friedman, MD Mount Sinai School of Medicine	“Hepatic Fibrosis- the New Frontier in Liver Disease”
12/11/12	Simon Hogan, PhD CCHMC: Allergy and Immunology	“Food-Induced Anaphylaxis: Immune Mechanisms that Drive Predisposition and Severity”

For more information regarding the DHC visit our [website](#) or contact one of the following:

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