Eugene B. Chang transitions to C-IID Director

Eugene B. Chang, MD, Martin Boyer Professor of Medicine, Director, Microbiome Medicine Program, previously the C-IID co-director, transitioned into his role as the Center director in November. Dr. Chang resumes his role as director as he previously served in this capacity for 22 years.

Dr. Chang will continue to increase the C-IID usage by providing innovative, state-of-the-art services; continuously promote collaborative research in digestive diseases; and increase diversity, equity and inclusion efforts.
Learn more about the Research Cores that are available to the C-IID members.

**Integrative Clinical and Biospecimen Core** *(Sonia Kupfer, MD, Joel Pekow, MD, Christopher Weber, MD, PhD)*: Offers patient registry, tissue biobanking facilities, and support in designing clinical studies in areas such as human gut microbiomes in health and disease, IBD, gastroenterology, and hepatology, and celiac diseases.

**Host-Microbe Core** *(Alexander Chervonsky, MD, PhD, Betty Theriault, DVM, DACLAM, Ran Blekhman, PhD)*: Provides unique approaches to the study of host-microbe interactions, including cell/tissue models, gnotobiotic mouse technologies, metagenomics, and approaches for structural and functional profiling of complex microbial communities. The Core also offers bioinformatics analysis and interpretation of microbiome data and other genomic data in the context of digestive disorders. This includes, but not limited to, processing and analysis of data generated by 16S rRNA sequencing, metagenomic shotgun sequencing, metabolomics, transcriptomics, and epigenomics, as well as integration of various datasets using various statistical and computational approaches.

**Tissue Engineering and Cell Models Core** *(Eugene B. Chang, MD, Cambrian Liu, PhD)*: Offers unique cell and tissue models, 2D and 3D enteroids/colonoids, and mouse models along with molecular and genetic engineering approaches to develop new model systems.

**Multiparametric Host Cell Analysis Core** *(Luis Barreiro, PhD, Bana Jabri, MD, PhD)*: Provides expert consultation, training, experimental and bioinformatic support in the use of the growing array of highly specialized cutting-edge technologies that are available for flow cytometry and genomic analysis, specifically related to the study of gastrointestinal disease.

For more information visit the **C-IID website**: ciid.uchicago.edu

*Continue to check the website as it is in the process of being updated to include listing of services offered and request forms.*
Valerie Abadie awarded the 2023 Celiac Disease Foundation Young Investigator Prize for Basic Science

Dr. Abadie was awarded the 2023 Celiac Disease Foundation Young Investigator Prize for Basic Science for her novel research on the development of the first pathophysiological murine model of celiac disease and identifying immune mechanisms in celiac disease pathogenesis. She was formally recognized at the Celiac Disease Foundation Award Reception during Digestive Disease Week in Chicago, IL. Read more.

Cambrian Liu Highlighted on WGN9 and Crain’s Chicago Business' HealthPulse newsletter

Cambrian Liu, PhD has identified a unique skin-like stem cell originating from the anal transition zone that induce wound healing in mice colons by utilizing the novel imaging technique Analysis of Cleared Human Intestine (ALCHEMIST) to study regenerative medicine in the GI tract. Dr. Liu’s research is funded by a C-IID Pilot & Feasibility Award, GI Research Foundation and a recently awarded NIH RO1 grant. Read more.

C-IID members present at the Midwest Digestive Diseases Research Core Centers Alliance Conference

The annual Midwest Digestive Diseases Research Core Centers Alliance (MWA) Conference was hosted by the Mayo Clinic DDRCC and held in Rochester, MN on October 26-28. The MWA is comprised of the DDRCCs from the University of Chicago, Mayo Clinic, Cincinnati Children's Hospital, and Case Western Reserve University. The inter-center collaboration adds substantial value to the missions of each of the Centers and foster collaborations, provide networking, joint initiatives, and resource development. C-IID members Drs. Cambrian Liu, (2021 C-IID Pilot & Feasibility Awardee) and Valerie Abadie (2018 C-IID Pilot & Feasibility Awardee) presented research talks at the conference.
Community Health in Digestive Diseases Program

2024 C-IID Pilot and Feasibility recipient Edwin McDonald, IV, MD, continues to address gastrointestinal health disparities in underserved communities in University of Chicago’s local 12-12 zip code service area. Dr. McDonald, IV and Jeannine Wise, Director of Good Food is Good Medicine (GFGM) also address nutritional health by providing cooking classes to the community engaging in a eight-week health challenge. This program has been highlighted in The Chicago Tribune and The Chicago Sun-Times.

Increase in Diversity, Equity and Inclusion

The C-IID Administrative Core is working to increase Diversity, Equity and Inclusion efforts by working with the Enrichment Program in establishing collaborations with community organizations that work with underrepresented communities. The goals are to address digestive diseases health disparities and establish partnerships with students starting at the highschool level to encourage them to pursue careers in gastrointestinal medicine and research fields. Additional DEI efforts were utilized in the Pilot & Feasibility Program with the encouragement of investigators from underrepresented communities and also investigators that conduct research in underserved populations to apply for the award. The C-IID is also in the progress of establishing a Community Advisory Board.

Pilot and Feasibility Recipients present at Silvio O. Conte Digestive Diseases Research Core Centers Meeting

The annual Silvio O. Conte Digestive Diseases Research Core Centers (DDRCC) meeting was hosted by the Digestive Health Center (DHC) at the Cincinnati Children’s Hospital Medical Center at the University of Cincinnati on November 6-7, 2023. This meeting is comprised of the 17 DDRCCs leadership and numerous NIDDK staff. Megan McNerney, MD, PhD, Associate Professor, Department of Pathology, Division of Genomic and Molecular Pathology and Department of Pediatrics, Section of Hematology/Oncology, presented “CUX1 Transcriptional Regulation of Intestinal Epithelium Differentiation”. Sebastian Pott, PhD, Assistant Professor of Medicine, presented his research titled “Multiomic Analysis Reveals Cellular and Epigenetic Plasticity in Intestinal Pouches of Ulcerative Colitis Patients”.

Congratulations

C-IID member Maria-Luisa Alegre, MD, PhD was named a Distinguished Fellow of the American Association of Immunologists (DFAAI) and elected Council Member and Leadership Track, American Association of Immunologist (2023-2030). Dr. Alegre also was awarded a 2P01AI097113 (Alegre and Chong, Multi-PD): Infections and the Stability of Transplantation Tolerance.

Aly Khan, PhD received a NIH DP2 NIAID New Innovator Award for: Unraveling the functional diversity of B cells in health and disease.

Notice of Funding Opportunity

NIDDK has joined PAR-23-309, Health and Health Care Disparities Among Persons Living with Disabilities (R01 - Clinical Trials Optional) with the issue of NOT-DK-24-006.

In Memoriam: Albert Bendelac, MD, PhD

Albert Bendelac, MD, PhD, the A.N. Pritzker Distinguished Service Professor of Pathology at the University of Chicago, died at his home on August 23, 2023, surrounded by family. Dr. Bendelac was known for his pioneering research on lymphocyte biology, numerous awards recipient, including teaching, he received the Quantrell Teaching Award for Excellence in undergraduate teaching, and his contributions toward establishing UChicago’s Committee on Immunology. Read more.

Pilot And Feasibility Award

The C-IID and the Duchossois Family Institute (DFI) joined in partnership to award 5 Pilot and Feasibility awards of $50,000 each for research on digestive health and diseases. Proposals that involved studies of inflammatory bowel diseases (IBD) and related areas of intestinal inflammation, the gut immune system, the gut microbiome, host-microbe interactions, microbiome-based biotherapeutics, hepatic and digestive functions, host-microbe metabolism, and epithelial biology/developmental regulation of the gut were given special consideration. Please consider applying for the 2024-2025 cycle. The RFA will be disseminated in July.
Edwin McDonald IV, MD, Assistant Professor of Medicine, with co-investigator Ashley Sidebottom, PhD, DFI Metabolomics director, collaborator Eugene Chang, MD, were awarded for “Assessment of Fecal Microbial Metabolomics to Evaluate the Efficacy of Nutritional Education and Practices for Metabolic Health of Underserved and Underrepresented Minority Urban Communities”.

Anindita Basu, PhD, Assistant Professor, with co-investigator, Ran Blekhman, PhD, were awarded for “Coherent Multi-Omics of Host and Microbiome in Crohn’s Disease”.

Axel R. Concepcion, PhD, Neubauer Family Assistant Professor, Department of Biochemistry and Molecular Biology was awarded for “Decoding the mechanism underlying the autoimmune liver inflammation in a mouse model of Primary Biliary Cholangitis”.

Benjamin Shogan, MD, Associate Professor of Surgery, with General Surgery resident Nicholas Suss, MD, co-investigator. were awarded for “Elucidating the mechanisms by which preoperative nutritional modulation presents colorectal cancer recurrence in a murine model”.

Bozhi Tian, PhD, Professor, Department of Chemistry, with senior scientist Jiping Yue, PhD were awarded for "The microbiota- T cell axis in the link between the appendix and ulcerative colitis".
Enrichment Program

Academic Skills Retreat

The Section of Gastroenterology, Hepatology and Nutrition hosted the 15th annual academic skills retreat on July 30, 2023 organized by Drs. Sonia Kupfer (C-IID Enrichment Program Director and Integrative Clinical and Biospecimen Core Director) and Celina Canchola. The retreat was attended by GI fellows including research fellows who are working with mentors who are members of the C-IID. The event enabled trainees to learn critical academic skills such as effective science communication and to be inspired from successful academics in GI and Hepatology.

C-IID host Joint T32 retreat with the University of Wisconsin /Madison

The C-IID hosted a joint T32 retreat October 13-24, 2023 with the University of Wisconsin /Madison focused on Diversity, Equity, and Inclusion. The retreat included faculty research talks, trainee research presentations, academic skills sessions, and keynote speaker Angela Byars-Winston, PhD (UW-Madison, Co-PI on National Research Mentoring Network; Chair of the National Academies of Sciences’ 2019 consensus report, The Science of Effective Mentorship in STEMM).
Please acknowledge support from the UChicago DDRCC, Center for Interdisciplinary Study of Inflammatory Intestinal Disorders (NIDDK P30 DK042086) in your publication and presentations (include the 0 in front of the 4).


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Please attend the weekly GI Research Conference scheduled Thursdays at 1 p.m. Seminars are given in a hybrid format with in-person and Zoom login options. Information is sent out via email.

On-site location:
Knapp Center for Biomedical Discovery (KCBD)
First floor auditorium
Room 1103

Refreshments provided

Join Zoom Meeting
https://uchicago.zoom.us/j/98045324002?pwd=TjFTNStwRWVtV3YxYi95aHZVS1YyUT09

Meeting ID: 980 4532 4002
Passcode: 513547

GOT NEWS TO SHARE?
Contact the C-IID Program Administrator
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Visit us on the web at ciid.uchicago.edu