



April 2018

Happy Spring! Below you'll find the latest ideas, action items, and news on the progress of the Human Immunology and Immunotherapy Initiative.

HI3 Faculty Recruitment

Mission: To enhance expertise and develop new strengths

- **Basic Human Immunology faculty searches**

- [Tenure-eligible faculty position](#) search is underway in conjunction with the Department of Immunology and Microbiology. We had an excellent applicant pool and interviewed a total of 6 candidates for 2 positions in February and March 2018.
- A faculty search for the [Amy Davis Chair for Basic Human Immunology](#), endowed by a generous donation from the Patten-Davis Foundation, has begun. Invited guest [Eduardo Davila, PhD](#) will be visiting campus April 17 and 18. Nominations of candidates who are established investigators with basic human immunology expertise and interest in cancer are welcome and can be sent to Aimee.Bernard@ucdenver.edu

HI3 Translational Immunology Case Study Seminar Series

Mission: To extend our understanding of translational immunology and assist in clinical problem solving

- HI3 launched a seminar series in the fall of 2017 to connect investigators across the Anschutz campus that perform research within immunology and/or treat patients with immune-mediated disorders to learn from one another and extend our understanding of human translational immunology.
- Please visit the HI3 website to view the full list of seminars in the [HI3 Translational Immunology series](#) or to obtain [instructions for viewing](#) the recorded seminars on Office 365.

HI3 Human Immune Monitoring Shared Resource (HIMSR)

Mission: To facilitate and support human immunology research and discovery

- To support HI3 members using mouse tissue, a hands-on, **2-day Vectra Mouse IHC workshop** is scheduled for **May 10 and 11**. The workshop will cover multiplexing with Opal staining reagents on mouse tissue, the development of a 7-color immune cell panel for mouse tissue and basics of the inForm analysis software (companion to the Vectra instrument). HIMSR will provide mouse FFPE tissue, slide prep, buffers, instrumentation and training. Participants will be required to provide 1 of the necessary reagents. Please contact Kimberly.Jordan@ucdenver.edu if interested.
- Multi-parameter IHC on the Perkin Elmer Vectra platform is continually developing the use of additional human antibodies and panels. Please see the [HIMSR section of the HI3 website](#) for a complete list of the standard human antibodies and panels currently available.
- A **Vectra User Group** has formed to allow users to discuss problems, present data, ask questions and obtain feedback. If interested, please join us on the first Thursday of every month at 2:00pm in RC1-North, Room 8108. Contact Kimberly.jordan@ucdenver.edu if you would like to be added to the user group calendar invite.
- Would you like to include HIMSR services in your next grant application and obtain pre-written text for your grant about the HIMSR? Please contact Kimberly.Jordan@ucdenver.edu

- Interested in bioinformatics support? Complete the [online bioinformatics request form](#).

HI3 Translational Research Networking and Preclinical Models (TRNPM)

Mission: To provide a nexus for multiple aspects of translational immunology research

- The COMIRB protocol "Human Immune Tissue Network Biobank" has been approved. This 'umbrella' protocol will allow any HI3 investigator to obtain and study fresh human tissue of immunological relevance (adult and pediatric) without the need of obtaining their own COMIRB protocol. To obtain tissue, investigators simply fill out a form provided by the HI3. Names of clinicians from which to obtain human tissue and the consent form, when needed, will be provided by HI3. Interested? Please contact Roberta.Pelanda@ucdenver.edu
- To learn more about human immune system (HIS) mouse models and the services offered through the TRNPM contact Julie.Lang@ucdenver.edu or Roberta.Pelanda@ucdenver.edu

HI3 Support for development of Immunotherapeutics

Mission: To facilitate the production of clinical grade biological reagents and cell-based immunotherapeutics

- CD19 CAR-T cell development for use in clinical applications, under the direction of Drs. Enkhee Purev and Craig Jordan, is ongoing in a collaboration between Clinimmune and the Gates Center. They are preparing for another validation run scheduled in May at the Gates Manufacturing Facility.

Mission: To facilitate the use of campus CLIA labs for monitoring patient responses and clinical decision-making

- Please visit the [HI3 website for a list of CLIA labs](#) on campus and contact Aimee Bernard if you know of any additional CLIA laboratories on campus that are absent from this list.

HI3 Training Program

Mission: To develop and establish training programs across the training continuum at the pre-doctoral, post-doctoral, and junior faculty level

- HI3 will monetarily support 2 incoming immunology program graduate students in the 2018/2019 class and 1 incoming post-doctoral fellow for 1-3 years beginning in the fall of 2018.
- The development of a **2-day 'Human Immunology and Immunotherapy Overview' workshop** is underway for HI3 trainees and scientists who would like to expand or update their understanding of the field and address its role in health and disease. The proposed date for the inaugural workshop is October 2018. If interested, please contact Aimee Bernard as enrollment will be limited.

HI3 Clinical Research Program

Mission: To provide expertise and coordination with established campus clinical research services to HI3 research teams to effectively operationalize clinical research

- The HI3 clinical research program continues to evolve as active members contribute to the ongoing conversation regarding the direction of this activity.
- **SLE Interest Group** was recently formed and met in March to determine the interests of the group regarding human research under the context of 'the stages of pre-clinical autoimmunity and transition to clinical disease' to develop a pilot for human clinical/translational research. If interested in joining, please attend our next meeting on May 2 at 3:00pm in RC1-North, Room 8108. For more information please contact Mike Holers, Kevin Deane or Aimee Bernard.

UPCOMING EVENTS and ACTION ITEMS

- **April 5:** The first meeting of the **HIMSR Vectra User Group** is scheduled for **April 5 at 2:00pm** in

RC1-North, Room 8108. The topic, 'Tissue Region Selection and Avoiding Data Bias in Heterogeneous Tissue,' will be presented by Kim Jordan, Jennifer Richer and Nicole Spoelstra.

- **April 18: Mark your calendar for April 18 4:00-5:00pm** in the Nighthorse Campbell Shore Family Forum for the HI3 Translational Human Immunology Seminar, '**Complications and Management of Immunotherapeutic Strategies in Pediatric Leukemia**' presented by Lia Gore, MD
- **May 2:** The next meeting of the **SLE Interest Group** will take place on **May 2 at 3:00pm** in RC1-North, Room 8108.
- **May 9: Mark your calendar for May 9 4:00-5:00pm** in the Nighthorse Campbell Shore Family Forum for the HI3 Translational Human Immunology Seminar, '**Pathophysiology of Eosinophilic Esophagitis**' presented by Glenn Furuta, MD
- **May 10 & 11:** Contact Kim Jordan (Kimberly.Jordan@ucdenver.edu) if interested in attending the HIMSR-sponsored **Vectra platform workshop** on **May 10 & 11**. It will be a hands-on, 2-day workshop that will cover multiplexing with Opal staining reagents on mouse tissue, assay development, and basics of the inform analysis software (companion to the Vectra instrument).