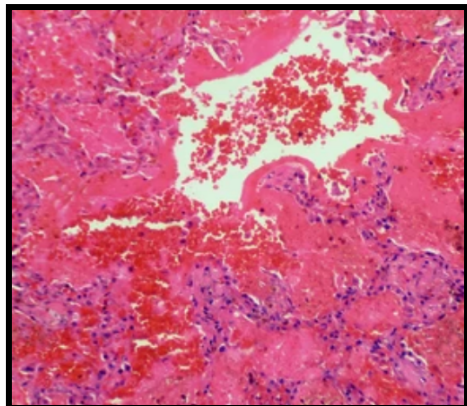# One Health Codeathon @ USF 2023:
Precision medicine: proteins, disease, drug discovery & more
June 28-June 30, 2023

The One Health Codeathon at USF serves to bring together a diverse set of researchers and clinicians, including students, faculty, and postdocs, for an intense 3-day data-science focused codeathon.

Transdisciplinary teams will integrate their skillsets in order to solve emerging problems related to human and environmental health in a global setting.

Venue: The One Health Codeathon at USF will be held in person in MDN 1096B.

Expectations: Each team — consisting of specialists in data sciences, microbiomes, health and social sciences — will investigate pandemic initiation, spread, and public health interventions by integrating genomics, clinical data, geoscience, modeling, and social sciences.

Publications:
Active participants will be included on any publications resulting from the 3-day event.

Open-Source Prototypes:
Each team will produce a public GitHub repository for their work which will enable dissemination and future development.

Long-Term Collaborations:
New transdisciplinary research networks will form and continue to collaborate on research grants and publications after the event ends.

General Schedule: The 3-day codeathon will begin the morning of Monday, June 28 with a Keynote Symposium establishing the event, its purpose, and the significance of the problems being investigated. Teams will initiate work on their projects Wednesday afternoon and will have the entirety of Thursday along with Friday morning to complete their work. Each team will present their work Friday morning and an award will be given based on the evaluations of an external review panel.

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Wednesday, June 28

9:00 – 9:15 am
Breakfast in MDN 1096B

9:15 – 9:30 am
Introductory remarks
Dr. Jesper Madsen, Professor, USF Genomics Program, USF Omics Hub

9:30 – 10:00 am USF Keynote address
Dr. Chengqi Wang, PhD Research Assistant Professor USF Genomics Program

10:00 – 10:30 am
Team meeting to prepare project-proposal presentations

10:30 am – 11:30 am
Project-Proposal Presentations –
Each team has 5 minutes to present their proposal followed by 5 minutes for questions.

11:30 – 12:30 pm
Lunch Break

12:30 – 3:00
Team Coding/Project-development

3:00– 4:30 pm
Day one round up –
Each team gives a 5 -minute update on progress followed by 5 minutes for questions.

4:30 – 5:00 pm
Day One Keynote Speaker. Dr. Per J Greisen,PhD Director of Computational Drug Discovery at Novo Nordisk

Thursday June 29

9:00 am – 12:00 pm
Team Coding/Project-development

12:00 – 1:00 pm
Lunch Break

1:00 – 3:30 pm
Team Coding/Project-development

3:30 – 5:00 pm

Day two round up –
Each team gives a 5-minute update on progress followed by 5 minutes for questions.

Friday June 30

9:00 am – 12:00 pm
Team Coding/Project-development

12:00pm – 1:00pm
Lunch Break

1:00 – 2:15 pm
Final presentations –
Each team gives a 10-minute presentation followed by 5 minutes for questions.

2:15 – 2:30 pm
Judge Deliberation

2:30 – 2:40 pm
Event Wrap-up and closing remarks

2:40 – 2:50 pm
Awards – Presented by the Judges

2:50 – 3:00 pm
Group and Team Pictures