



# Immunology Summer Discussion Course

Cervical Cancer Research Lab

Department of Pathology

The Johns Hopkins University School of Medicine

# General Information

**What:** Seminar-style introductory course to basic immunology, immunotherapy, and cancer (HPV-associated cancers)

**Where:** Johns Hopkins Medical Institutions, Cancer Research Building 2

**When:** July 13 – August 13, 2020. We meet 4x a week for 1 hour

**How:** There is a 2-step formal application process

Lab research and the summer discussion course are separate entities. Only if you are accepted to the course will you be a candidate to work in the lab, with further approval required.



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M E D I C I N E

# Discussion Course Topics

- There are a total of 18 lecture topics ranging from basic immunology concepts to immunological lab techniques
- Course topics and discussion are student-led
  - Individual students select the topic they would like to teach and lead course discussion that day
- The course meets 4x per week for 1 hour

Topic
What is HPV?
What is a tumor?
What is cervical cancer?
Introduction to Immunology
What is innate immunity?
What is adaptive immunity?
What are MHC molecules?
What is antigen presentation/APC?
What is a T cell? T cell activation?
What is the structure/function of CD4/CD8 T cells?
What is humoral immunity?
What are tumor antigens?
What is a vaccine?
What are DNA vaccines and strategies to enhance their potency?
Immunological techniques
Tumor Microenvironment
Preclinical models for vaccine development
Tumor protection and treatment experiments

# Course Instructors



Dr. TC Wu  
*Principal Investigator*



Dr. Chien-Fu Hung  
*Co-Principal Investigator*

Course Assistants: Louise Ferrall, Brandon Lam, C. Carter Polston

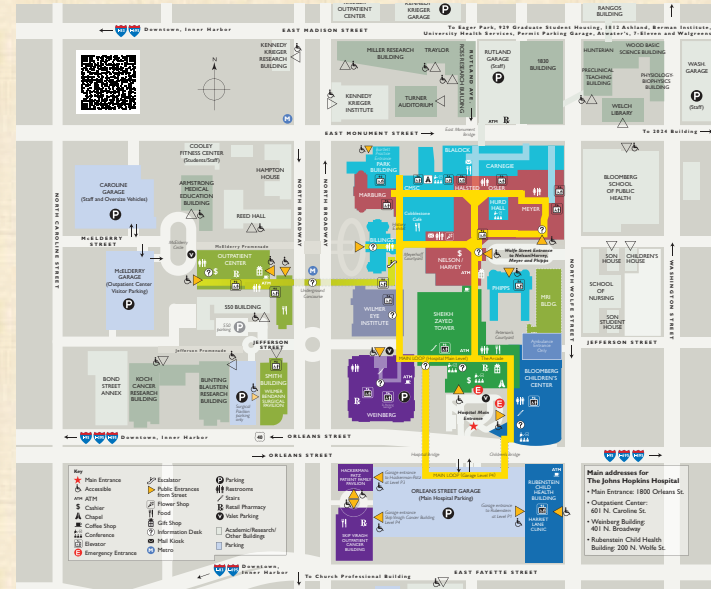
# Meet the Cervical Cancer Research Lab

- Our research is focused on the development of vaccines and immunotherapeutic strategies for the prevention and treatment of HPV-associated cancers (primarily cervical cancer)
- Led by Drs. TC Wu and Chien-Fu Hung
- We have a large, collaborative lab, which includes 4 postdoctoral fellows and 3 graduate students



# Living in Baltimore

- Johns Hopkins Medical Institutions (JHMI) is located in Baltimore, MD
- The JHMI Campus is an urban campus in close proximity to downtown Baltimore, Fells Point, and other famous Baltimore attractions
- JHMI provides transportation for students and employees to and from designated areas
- Where do students live?
  - Butchers Hill/Upper Fells Point
  - Fells Point
  - Mount Vernon
  - Homewood/Charles Village
- JHMI has information about housing on their website: <https://offcampushousing.hopkinsmedicine.org/>



# How to Apply

## Step 1

1. Submit your initial application to Louise Ferrall at [lferral1@jhmi.edu](mailto:lferral1@jhmi.edu):
2. Application Components:
  1. Curriculum Vitae or Resume
  2. Statement of Interest (250-500 words)
3. Applications will be reviewed and selected applications will be notified by email

\*\*Due to the highly competitive application pool, we can only accept a total of 3 students from your institution\*\*

## Step 2 (if selected to proceed)

1. Submit a formal application to the Johns Hopkins University School of Medicine Visiting Medical Student Program
2. Prepare for your visit!
  - You will be responsible for making your own arrangements for your travel, stay, and housing

# Questions?

For more information about the application process and discussion course contact  
Louise Ferrall at [lferral1@jhmi.edu](mailto:lferral1@jhmi.edu)