Implementing international training programs for oncology research development

Kenneth S. Cohen, M.D. Associate Professor of Medicine Program Director, Adult Hematology/Oncology Fellowship Program Section of Hematology/Oncology The University of Chicago

Introduction to research training

• Geography of the University of Chicago

• History of oncology research at the University of Chicago

Description of our fellowship training

Global Health Programs

University of Chicago Medical Center



Integrated university and medical center campuses



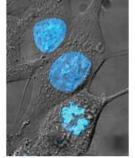
Oncology research at the university





Comprehensive Cancer Center

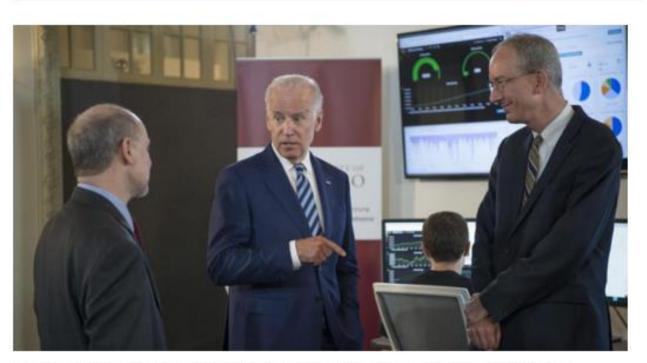
AT THE FOREFRONT OF CANCER CARE AND DISCOVERY"



Yusuke Nakamura, MD, PhD, develops a novel anticancer therapy targeting the T-lymphokine-activated killer cell-originated protein kinase (TOPK) and demonstrates potent activity in preclinical lung cancer studies.

Genomic Data Commons

Center for Data Intensive Science



Vice President Joe Biden talks with Prof. Robert Grossman, director of Center for Data Intensive Science at UChicago, and Louis M. Staudt of the National Cancer Institute as they tour the Genomic Data Commons on June 6.

Photo by Robert Kozloff 👱

Biden to unveil launch of major, open-access database to advance cancer research — Vice President Joe Biden to announce Genomic Data Commons project (Washington Post)

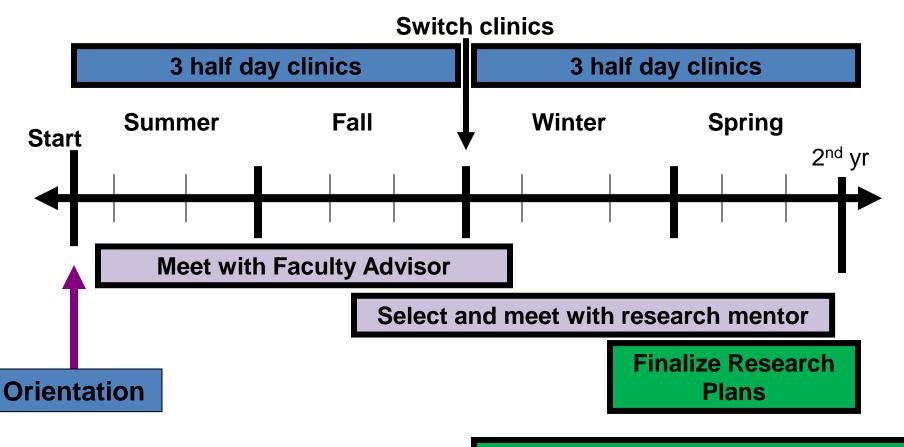
Related Links

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Science Life blog: Joe Biden visits Genetic Data Commons
Genomic Data Commons
National Cancer Institute
White House's Cancer Moonshot

First Year Clinical/Research Training



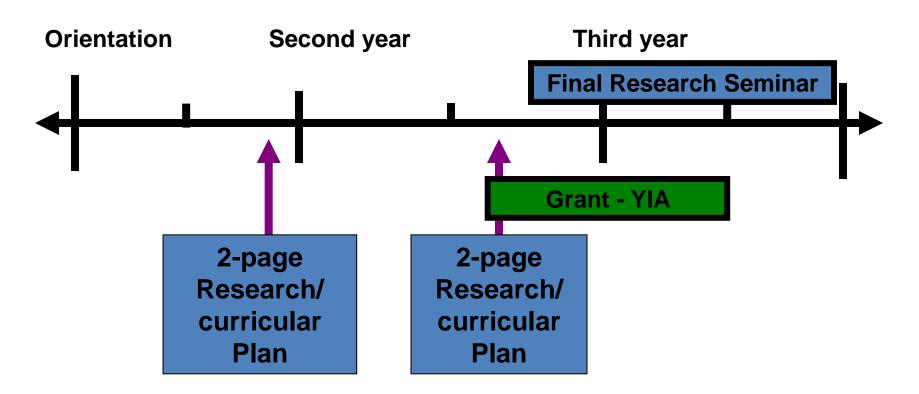


Author an Abstract or Review Paper

Senior Fellow Training (2 years)

Protected Time = 18 months

Clinical Disease Specialty



Mentorship Committee Meeting Every 6 Months

Specialized Training Programs

- Essentials of Patient Oriented Research
- <u>Summer Program in Outcomes Research Training</u>
- MERITS Fellowship for education
- Ethics Fellowship
- Geriatric Medicine Fellowship
- Masters Programs (selected options)
 - Masters in Science for Clinical Professionals
 - Bioinformatics
 - Arts and Humanities
 - Anthropology and Sociology

Individualized fellow training paths

- Traditional lab based projects
- Phase I trial experience with correlative research
- Investigator initiated and pharma phase I/II/III trial experience
- Outcomes research
 - Young adult and survivorship
 - Economics and health policy
 - Geriatriac Oncology (SOCARE clinic)
 - Sociology/Anthropology
 - Healthcare disparities research
- Hospitalist Scholars Program in Global Health

Clinical Pharmacology and Pharmacogenomics Training Program

- Clinical Therapeutics in Oncology
 - 4 year program
 - Joins our comprehensive heme-onc program with Clinical Pharmacology and Pharmacogenomics
 - Dual certification
- Clinical Therapeutics in Industry
 - 3-4 year program collaborative program
 - Specialized education and research programs at <u>Abbvie</u> in North Chicago
 - New training opportunity in international clinical trial education

Center for Global Health (CGH)

• Leadership

 Olufunmilayo Olopade, MD, FACP, Professor of Medicine and Director of the Center for Clinical Cancer Genetics

• Mission

 To collaborate with communities locally and globally to democratize education, increase service learning opportunities, and advance novel, transdisciplinary, and sustainable solutions to improve health and well-being while reducing global health disparities and inequalities

CGH Research Niche Areas

- Health, environment, and vulnerable populations
- Genomics and chronic non-communicable diseases
- Urban health services and systems delivery
- Women's and children's health and wellbeing

Training opportunities for Univ of Chicago students and trainees



Benefits of international exchange and research training

- Trainee access to novel and unique training resources
- Two way exchange of clinical and research practices
 - "Trainee as teacher"
- Creation of long term collaborative foundations for research
 - Research reagents and techniques
 - Shared databases and heterogeneous tumor banks
 - International multi-institutional clinical trials
 - Formal training exchanges can foster long-term informal exchanges between labs and clinical research teams

Relay for Life My Oncology Dream Award

- Awardee embeds in research group for year
- Primary time spent on research pursuits
- Additional educational resources open to awardee
 - Clinical research programs
 - Program director advice
 - All first year and senior fellow conferences
 - Graduate level conferences
 - Committee on Cancer Biology
 - Committee on Immunology

Research areas of first award recipients

- Dr. Ken Hatogai, Department of GI Oncology, National Cancer Center Hospital East
 - "Overcoming resistance to immunotherapy based on oncogene alteration in bladder cancer
 - Mentor: Dr. Thomas Gajewski
- Dr. Eisaku Miyauchi, Department of Respiratory Medicine, Tohoku University
 - "T cell receptor repertoire analysis in cancer tissues
 - Mentors
 - Dr. Yusuke Nakamura (lab)
 - Dr. Jyoti Patel (clinic)

Summary

- Wide array of training resources
- Mentors with experience in a variety of research activities and training
- Goal is to help train the next generation of clinician researchers
- We are interested in establishing international collaborations

