Implementing international training programs for oncology research development

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Introduction to research training

- Geography of the University of Chicago
- History of oncology research at the University of Chicago
- Description of our fellowship training
- The role of international collaboration in research training
Integrated university and medical center campuses
Oncology research at the university

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

• First year (12 months)
  – Intensive oncology clinical rotations
  – Core lecture series and Friday AM seminars
  – Oncotalk communication series
  – Mentor selection (July – January)
  – Write small research project or reviews
  – Develop senior research project (Feb – June)

• Second/third year (24 months)
  – 6 months of clinical hematology training
  – Fellows pursue independent research projects
  – One to two half day continuity clinics
Additional training resources

• Essentials of Patient Oriented Research
• Summer Program in Outcomes Research Training
• 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
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
  – 4 year program
  – Dual certification
  – Specialized pharma education and research programs at Abbvie in North Chicago
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
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 well-being
- Partnership with the MacLean Center for Clinical Medical Ethics
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
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