Resources for Career Success at CUMC

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What is the CTSA?

• A national consortium of medical research institutions, funded through NIH’s Clinical and Translational Science Awards (CTSAs), working together to improve the translational research process.

• The hubs seek to develop, demonstrate and disseminate innovative methods and technologies to turn scientific discoveries into clinical advances more efficiently:
  – *Train and cultivate the translational science workforce*;
  – *Engage patients and communities in every phase of the translational process*;
  – *Promote the integration of special and underserved populations in translational research across the human lifespan*;
  – *Innovate processes to increase the quality and efficiency of translational research, particularly of multisite trials*; and
  – *Advance the use of cutting-edge informatics*. 
NCATS studies translation on a system-wide level as a scientific & operational problem.
What is the Columbia CTSA?

- **Columbia CTSA** = Irving Institute for Clinical and Translational Research

- **Overall Goals:**
  - To transform the culture of research to hasten the discovery and implementation of new treatments and prevention strategies.
  - Key words
    - Translational
    - Interdisciplinary
    - Community-engaged
    - Precision Medicine
    - Integrating Special Populations (Pediatrics, Geriatrics, Rare diseases, and HIV)
What do the Irving Institute Resources Provide?

• Funding Opportunities
• Education
• Consultation Services
• Research Support
• Meeting and Research Facilities
Funding Opportunities
CTSA T32/TL1 Award

- For **doctoral students and postdoctoral fellows** (with US citizenship or permanent resident status)

- Program offers:
  - Two years of training stipend plus funds for tuition, supplies, travel, etc.
  - Didactic training
  - Externship opportunities
  - Colloquium on Career Development
  - Monthly lunches and seminars

- Next Deadline: **February 2018**

For more information, go to:
[http://irvinginstitute.columbia.edu/education/research_train_t32.html](http://irvinginstitute.columbia.edu/education/research_train_t32.html)
CTSA K12/KL2 Award

• For **junior faculty only** (Assistant Professors with US citizenship or permanent resident status)

• Program offers:
  – Two years of salary support (75% effort; 50% for surgeons) plus funds for tuition, research costs, travel, etc. ($25K/year)
  – Didactic training (MS/POR for those without research Master’s)
  – Mentored research project
  – Colloquium on Career Development
  – Assistance with independent grant application

• Application Deadline: **Fall**

*For more information, go to:*
http://irvinginstitute.columbia.edu/education/research_train.html
Precision Medicine Research Fellowship

• For *postdoctoral clinical and research fellows* (regardless of citizenship status)

• Program offers:
  – Two-year fellowship to be used as salary, funds for research, tuition, supplies, travel, etc.
  – $100,000 per year
  – Didactic training and coursework adapted to the applicant’s background and future career goals.
  – Monthly lunches and seminars

• Next Deadline: TBD

*For more information, go to:*  
http://irvinginstitute.columbia.edu/resources/precision_med.html
Pilot Awards

- Nine pilot awards
  - CaMPR Planning Grant* and Pilot Award
  - Bench to Bedside Pilot Awards (formerly CaMPR-BASIC)
  - Health Practice Research Pilot Award
  - Imaging Pilot Award
  - Irving Institute/Clinical Trials Office Pilot Award
  - Precision Medicine Pilot Award
  - Community-Based Participatory Research Course and Pilot Award
  - Integrating Special Populations Pilot Award
  - Translational Therapeutics (TRx) Pilot Award
- Duration: 1 year (*CaMPR Phase I Planning Grant is 3 months)
- Amount: ranges between $5,000 and $100,000
- Eligibility: ranges from Associate Research Scientist, Instructor, Assistant Professor, Associate Professor, to Professor
- Application deadlines: November 1 and early Spring

For more information and details for each award, go to: [http://irvinginstitute.columbia.edu/research_ops/pcsrr.html](http://irvinginstitute.columbia.edu/research_ops/pcsrr.html)
Education
Master’s Degree Programs

• For *fellows* and *junior faculty*

• Most relevant programs:
  – MS in Patient Oriented Research (30 credits): March 1\textsuperscript{st} Priority deadline for scholarships
  – Executive MS In Epidemiology (deadline May 1)
  – MS in Biostatistics: Clinical Research Methods Track (30 credits; deadline April 15)
  – MPH in General Public Health – GPH (45 credits; deadline June 1)
  – MPH in Disciplines (45 credits; deadline Jan 15)

*For more information, go to:* 
https://www.mailman.columbia.edu/become-student

*To apply:* https://www.mailman.columbia.edu/become-student/apply
• Intensive 5-week summer training program
• Curriculum includes: **biostatistics, epidemiology, race and health, decision and cost-effectiveness analysis, grant-writing**
• Earn **10 academic credits**; can be used towards full degree program
• Instructors are outstanding Mailman and P&S faculty
• Participants develop a grant proposal as part of the summer requirements

*Email: csri@columbia.edu*

Reach for the First R01

• Non-credit course, offered twice per year: Fall and Spring
• Eligibility: Must be an Early Stage Investigator as per NIH: http://grants.nih.gov/grants/new_investigators/index.htm
• Must be supported/recommended by a senior faculty member
• 4-6 junior investigators will be selected for this course each term, across all departments.
• Advantages: Expert pre-reviews on R01 applications, and a bi-monthly meeting to ensure structure and timeliness in completing the tasks required to submit a first application.

For details, contact Sophia Li Ferry, Senior Program Manager for TRANSFORM Educational Programs (ssl2133@cumc.columbia.edu)
Short-term Education

- **Methods in Minutes (½ day to 2 day, non-credit courses)**
  - Past courses have included mixed methods research, statistical genetics, and innovations in healthcare from an industry perspective.
- **Building Interdisciplinary Research Models (spring course; 2 credits)**
  - Allows participants to build skills in interdisciplinary research by collaborating with scholars from various disciplines.
- **EPIC (Epidemiology and Population Health Summer Institute at Columbia University)**
  - Intensive, week-long, non-credit courses offered by the Department of Epidemiology ([https://www.cuepissummer.org/](https://www.cuepissummer.org/))
- **Take individual courses at the Mailman School (for academic credit)**
  - Take coursework in epi, biostat, RCT as a non-degree student ([https://www.mailman.columbia.edu/become-student/degrees/non-degree-programs](https://www.mailman.columbia.edu/become-student/degrees/non-degree-programs))

For more information, go to: [http://irvinginstitute.columbia.edu/education/short_term_education.html](http://irvinginstitute.columbia.edu/education/short_term_education.html)
Short-term Education

Topics in Biostatistics

• Biostatistics in Action: Tips for Clinical Researchers
  – Monthly lunch-time talks geared towards clinical investigators interested in gaining insight into fundamental research design and statistical concepts with a focus on practical knowledge

• Speed Consulting Sessions
  – Short consultations (re: statistical methods, results interpretation) provided to clinical investigators to help with abstract submission and/or preparation before national/international meetings, e.g. ASCO, AHA.

More information can be found at:
http://irvinginstitute.columbia.edu/resources/biostat_educational_initiatives.html
Short-term Education

Topics in Research Ethics

- Mondays, 12n-1p
  - December 18, 2017 – Ruth Ottman, PhD, CUMC
  - January 8, 2018 – Rayna Rapp, PhD, NYU
  - February 12, 2018 – Sharon Schwartz, PhD, CUMC
  - March 19, 2018 – Gail Geller, PhD, Johns Hopkins University
  - April 16, 2018 – Vence Bonham, Jr., JD, Office of the Director and Social & Behavioral Research Branch, NHGRI
  - May 18, 2018 – Robert Krueger, PhD, University of Minnesota

To receive announcements of seminars, send email request to Manuela Cangiamila at cangiam@nyspi.columbia.edu
Short-term Education

Topics in Precision Medicine

• “Advances in Precision Medicine” monthly seminar series featuring leaders in the field from across the nation (second Thursday of each month)

• “Precision Medicine Updates”, an annual symposium featuring presentations by the Fellows and Pilot Award recipients

• A formal two-semester “Introduction to Precision Medicine” course

Topics in Translational Therapeutics

• 6 week Bootcamp (required for all pilot award applicants)

• Seminar series
Consultation Services
Consultation Services

Biostatistics (for CUMC faculty and staff; no students or dissertation work)

• Initial, one-hour consult and potential follow-up support
  – Grant preparation (at least 8 weeks lead time) including hypothesis writing, study design, analytic plans, and sample size justification
  – Manuscript analysis and writing (at least 4 weeks lead time)

All requests can be submitted here:
http://irvinginstitute.columbia.edu/resources/request_form_login.html
Consultation Services

**CUMC IRB Liaison Service (available for CUMC faculty or coordinators)**
- Help in preparing protocols to be compliant with IRB requirements
- Assistance with responding to IRB reviews, explaining IRB requests, and providing appropriate responses and/or implementing requested changes.

*Contact:* Rui Ferreira ([rf2554@columbia.edu](mailto:rf2554@columbia.edu); 212.342.5136)

**Health Literacy Assessment Service (available for CUMC faculty including research scientists)**
- Review of study documents with edits to conform to health literacy tenants
- Up to three hours of free service. Service beyond requires formal financial support

*All requests can be submitted here:*
[http://irvinginstitute.columbia.edu/resources/request_form_login.html](http://irvinginstitute.columbia.edu/resources/request_form_login.html)
Research Support

• Clinical Data Navigator
  – Access to database of over 4.5 million individuals treated at CUMC since the 1980s
  – With IRB approval, request information such as demographic data, physician orders, laboratory, radiology, pathology, and other reports, structured and free-text clinical document, and nurse flowsheets and task lists

  Request support through:
  http://irvinginstitute.columbia.edu/resources/request_form_login.html
  https://webapps.nyp.org/trac

• Biomarkers
  – Develops, validate, and executes biochemical assays in support of pre-clinical, translational and clinical research

  Request support through:
  http://irvinginstitute.columbia.edu/resources/request_form_login.html
Research Support

*Recruitment Services for Investigators:*

**RecruitMe**
- Access to list of patients and studies (active and past) by investigator
- Inform patients of newly available studies
- Pre-screen potential participants
- Track inquiries
- Access to metrics on study interest trends

*Sign-up through:* [http://recruit.cumc.columbia.edu](http://recruit.cumc.columbia.edu)

**ResearchMatch**
- Additional means for recruiting participants

*Sign-up through:* [www.researchmatch.org](http://www.researchmatch.org)
Research Support

Recruitment Services for Investigators (continued):

Advancing Precision Medicine

• **BRIDGE** Use information and biological samples stored in the biobank. For more information, go to: [http://www.cumc.columbia.edu/dept/bridge/aboutBridge.html](http://www.cumc.columbia.edu/dept/bridge/aboutBridge.html)

• **eMERGE (Electronic Medical Records and Genomics) Network** Conducts research in genomics, including discovery, clinical implementation, and public resources. For more information, go to: [http://emerge.cumc.columbia.edu/](http://emerge.cumc.columbia.edu/)

Trial Innovation Network

• Multi-site participant network
• Prepare NIH clinical trial proposals; identify research sites for existing research
• Single institutional review board system
• Master contracting agreements
• Quality-by-design approaches
• Focus on evidence-based strategies to recruitment and patient engagement

*Office hours: Mondays and Fridays from 11a – 1p in PH10-100. For more information, email Linda Busacca: lb103@cumc.columbia.edu*
Research Support

http://irvinginstitute.columbia.edu/cusp/

Maintain a personal research profile

Identify collaborators at CUMC or through community-based organizations in Washington Heights and Inwood
Meeting and Research Facilities
Meeting and Research Facilities

Columbia Community Partnership for Health (390 Fort Washington Ave., Ground Floor b/t 177th and 178th Streets)
- Physical examination room
- Interview/consultation room
- Conference room
- Reception, waiting, and computer area
- Audio/visual equipment

Room Request Form: http://irvinginstitute.columbia.edu/resources/ccph.html

The Irving Institute Educational Center (PH10-405AB and PH10-402C)
- Meeting space (for up to 72 people) – capable of various configurations
- Conference room (for up to 10 people)
- Projection capabilities, audio conferencing, video conferencing

Room Request Form: http://irvinginstitute.columbia.edu/education/resources.html
Meeting and Research Facilities

Inpatient and Outpatient units (PH10, HP10, and VC301)

- Adult and Pediatric studies
- Patient rooms
- Interview/consultation rooms
- Dental suite
- Phlebotomy, EKG, vital signs, IV placement, Infusions, and PK study capability
- Laboratory for specimen processing (includes refrigerated centrifuges)
- Telemetry antennas
- Access to IMPACT scheduling system

**All studies must undergo a protocol review prior to approval and use of research facilities. To submit an application, go to:**

http://www.irvinginstitute.columbia.edu/resources/clinical_home.html
How do I access these resources or get more info?

• To access the CTSA research resources, visit the website:
  http://irvinginstitute.columbia.edu

• Fill out the *request form* on the website for consultation or more information:
  http://irvinginstitute.columbia.edu/resources/request_form_login.html

• To find out more about courses at MSPH, visit the website:
  http://mailman.columbia.edu
Key Takeaways

• Potential funding sources
  – TL1 (can supplement T32)
  – KL2 (for trainee to faculty transition)

• Educational opportunities
  – MS in POR
  – CSRI

• Other resources
  – Biostatistics consulting
  – Clinical data navigators
  – Space and facilities
Questions