DPI Intramural Training Program

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DPI Intramural Training and Education
NCATS Strategic Plan Goal 3

Develop and foster innovative translational training and a highly skilled, creative and diverse Translational Science workforce.

- 3.1 Identify and broadly disseminate the distinct knowledge, skillsets and core competencies needed.
- 3.2 Develop and support Translational Science training and career development programs.
- 3.3 Support the widespread acceptance of Translational Science as a formal discipline.
- 3.4 Expand understanding of Translational Science.
GOALS OF THE DPI INTRAMURAL TRAINING AND EDUCATION PROGRAM

• Provide training opportunities that help trainees develop the fundamental characteristics of a translational scientist.

• Foster a well-rounded training experience by enhancing the combination of research, didactic, and professional development training.

• Increase awareness of the translational science field among STEM students.

• Increase promotion of DPI intramural training opportunities.
• Individual Development Plans
• Monthly Fellows Meeting
• Case Studies
• Postbac Poster Day
• Interactions with Invited Speakers
• Annual Fellows Retreat
<table>
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<tr>
<th>Training Program Components</th>
<th>Related Translational Scientist Characteristics</th>
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<tr>
<td><strong>Research Training</strong></td>
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<tr>
<td>Working across multiple projects</td>
<td>Boundary crosser, systems thinker, team player, process innovator</td>
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<td>Evaluating robustness of assays</td>
<td>Rigorous researcher, domain expert, process innovator</td>
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<td>Communicating with collaborators</td>
<td>Skilled communicator, team player</td>
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<td><strong>Education and Professional Development Activities</strong></td>
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<tr>
<td>Case studies</td>
<td>Boundary crosser, systems thinker, team player, process innovator</td>
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<tr>
<td>Monthly trainee’s meeting, annual poster day, and annual retreat</td>
<td>Skilled communicator, boundary crosser, domain expert</td>
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<td>Invited speaker seminars</td>
<td>Skilled communicator, boundary crosser</td>
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Individual Development Plan

- Aligns goals and expectations.
- Helps facilitate positive working relationships.
- Helps establish research plan and monitor progress.
- Facilitates identification and discussion of educational and career goals.
- Useful in identifying/addressing gaps in skill sets.
- Valuable tool during job search and interview process.
Monthly Fellow Meetings

• Showcase research.
• Develop/enhance presentation skills.
• Opportunity to:
  • Increase knowledge of other NCATS projects.
  • Increase network among NCATS Fellows.
  • Get updated on upcoming training events.
Case Study Sessions

• Metarrestin, FOP
• Integrated way to present multidisciplinary work.
• Highlight contributions of different teams and disciplines to a project.
• Explain how to apply translational science skills.
• Enhance familiarity with broader translational science concepts:
  ▪ Translational science spectrum.
  ▪ Transition points between each stage of the spectrum.
  ▪ Scientific and operational principles applicable to wide-array of translational research projects.
Postbac Poster Days

• All postbacs required to present at NIH and NCATS Poster Days.
• Opportunity to showcase research.
• NIH-wide networking with other fellows and scientists.
• Increase and expand knowledge domain.
Invited Speakers

• Sunita Shukla, MPH, PhD – FDA (NCATS Alum)
  ▪ “You’re in the Driver’s Seat: A Strategic Approach to Planning YOUR Career” (2018)

• Amy Hsu, PhD, RAC – FDA (NCATS Alum)
  ▪ “Career Transition from NCATS to FDA” (2019)

• Career Talk Series:
  ▪ Marc Abrams, PhD – Dicerna Pharmaceuticals, Inc. (July/2020)
  ▪ Keith C. Norris, MD, PhD – UCLA (August/2020)

• V. Devanarayan, PhD – GlaxoSmithKline (TBD):
  ▪ “Data Analysis Concepts, Reproducibility and Replicability for Drug Discovery Applications”
Annual Fellows Retreat
(NHGRI & NCATS)

- Professional development
- Expand professional network
- Three Minute Talk Competition
- Establish/foster support system
Examples of Trainee Activities

- Research Training
  - Lit. review & Lab techniques
  - Data analysis & Manuscript prep.
  - Team science & Collaboration

- Didactic Training
  - Onsite courses (i.e. FAES)
  - Online courses

- Science Communication
  - Written/Oral presentations
  - Conference/Symposia participation

- Journal Clubs
- Scientific Interest Groups
- Career/Professional Development Activities
- Health & Wellness Activities
- Career Counseling Sessions
Intramural Training Opportunities at DPI

Summer Internship (8-10 weeks)
Postbac Fellowship (1-2 years)
Pre-doctoral; Graduate Partnership (1-4 years/flexible)
Medical Research Scholars (1 year)
Postdoctoral Fellowship (1-5 years)
Visiting Program (1-5 years)

https://www.training.nih.gov/programs
https://ncats.nih.gov/jobs
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