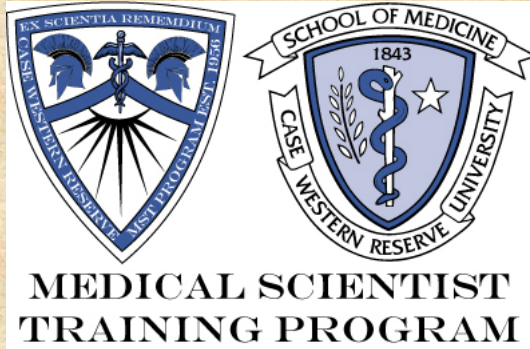


## **Advising Students in a Medium-Size MSTP: The Case Medical Scientist Training Program (MSTP)**



**Email: [mstp@case.edu](mailto:mstp@case.edu)**

**Website: [mstp.case.edu](http://mstp.case.edu)**

## **MSTP Mentorship Structure: “Three deep or more”**

- Pre-clinical phase: Co-Director (George Dubyak), MSTP Steering Committee members in student’s areas of interest, Director (Cliff Harding)
- Ph.D. phase: Thesis mentor, Thesis Committee (members include one from the MSTP Steering Committee and one with an M.D.), Director (Cliff Harding)
- Clinical: MSTP Clinical Tutorial Coordinator (Debra Leizman), Associate Director (Cynthia Bearer), Medical School Society Deans, Director (Cliff Harding)
- All phases: Cliff Harding, Society Deans

## MSTP Administrative Structure

- **MSTP Council (students)**
- **Administrative staff**
  - Kathy Schultz, Administrative Director
  - Bart Jarmusch, Program Coordinator
  - Donna McIlwain, Program Assistant
- **Associate Director, Dominique Durand, Ph.D.**
  - Engineering programs
- **Associate Director, Cynthia Bearer, M.D., Ph.D.**
  - Clinical advising, women's group
- **MSTP Clinical Tutorial Coordinator, Debra Leizman, M.D.**
- **Co-Director, George Dubyak, Ph.D.**
  - Rotations, grad courses, MD curric in first 2 years
- **Director, Clifford Harding, M.D., Ph.D.**
- **Steering Committee**



## MSTP Steering Committee

### Basic science representatives

- |                     |  |
|---------------------|--|
| • Vernon Anderson   | Biochemistry   |
| • Eric Arts         | Molec Virol, Microbiol, Infect Dis, HIV                      |
| • Clark Distelhorst | Cancer, Apoptosis  |
| • George Dubyak     | Co-Director, Physiol/Biophys, Pharm, Inflammation, Signaling |
| • Dominique Durand* | BME, PETP, Neuro-BME   |
| • Robert Fairchild  | Immunology (CCF)   |
| • Alison Hall       | Director of Graduate Education, Neuroscience                 |
| • Cliff Harding*    | Director, Pathology, Immunology, Infect Dis, Cell Biol       |
| • Sudha Iyengar*    | Molecular and Genetic Epidemiol, Genetics, Epidemiol.        |
| • Ruth Keri         | Pharm, Cancer, Endocrine                                     |
| • Gary Landreth     | Neurosciences, Neurodegenerative, Signaling                  |
| • Alan Levine       | Immunology, GI, Signaling                                    |
| • Roger Marchant*   | BME, PETP, Biomimetic materials                              |
| • John Mieyal       | SOM Admissions, Pharm  |
| • Helen Salz        | Genetics   |

### Clinical representatives

- |                  |                                 |
|------------------|---------------------------------|
| • Cynthia Bearer | Assoc Director, Pediatrics      |
| • Keith Armitage | Clinical Curric, Residency      |
| • Debra Leizman  | MSTP Clinical Tutorial Director |

(Plus MD admissions committee representatives)

\* = CTSTP

## MSTP Curriculum: First Two Years

- University Program MD curriculum
- Integration of graduate school components:
  - Graduate school courses (flexible afternoons)
  - Laboratory rotations (3 required) in summers or during fall or spring semesters
- Accelerated entry into Ph.D. phase
  - March of year 2

**Advising:** Co-Director (George Dubyak), MSTP Steering Committee members in student's areas of interest, Director (Cliff Harding)

## MSTP Curriculum: Ph.D. phase

- Graduate Program requirements:
  - Additional coursework (minimized by credit for MD curriculum plus grad courses in years 1&2)
  - Qualifying exam and/or thesis proposal
  - Original research
  - Publications (average 6/student achieved)
  - Thesis defense
- Integration of clinical training: MSTP Clinical Tutorial

**Advising:** Thesis mentor, Thesis Committee (members include one from the MSTP Steering Committee and one with an M.D.), Director (Cliff Harding)

## MSTP Clinical Tutorial: During the PhD Phase

- Optional (highly recommended) part-time clinical elective (1 morning or afternoon/week).
- Goals:
  - Connect scientific interests to clinical problems
  - Explore clinical fields
  - Enhance clinical skills
  - Facilitate transition to clinical phase
- Credit for 2 weeks of Med year 4 clinical elective for each year of MSTP Clinical Tutorial.
- Also replaces CPCP for MSTP students
  - Frees year 2 time for grad work
  - Places clinical warm-up closer to Med year 3
- Dr. Debra Leizman, Director

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