2020

MD-PhD: Is it Right for me?

Communications Committee of the MD-PhD Section of the Group of Research, Education, and Training (GREAT) AAMC

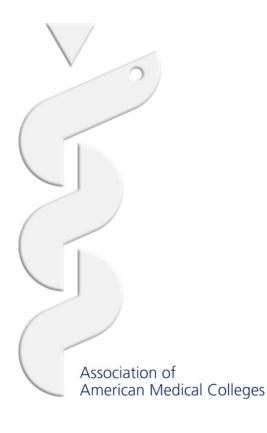
- Application Process
- Training
- ·Careers



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Why an MD-PhD?



Biomedical scientists
use the power of
research
to understand and
cure human disease



Students interested in careers as MD-PhDs are...

 fascinated by human biology and disease

• creative

persist in seeing a project to completion





MD-PhD graduates sit at the intersection of science and medicine





Where is MD-PhD training done?

- There are ~ 90 MD-PhD programs affiliated with medical schools:
 - 50 programs (with ~40-190 trainees) are supported by NIGMS training grants known as Medical Scientist Training Programs (MSTPs)
 - Most MD-PhD programs offer financial support: stipends, tuition waivers and health insurance





MD-PhD Program Overview

Goal: Prepare trainees for a career that combines research and clinical care, emphasizing research



- Curriculum integrates MD and PhD training
 - complete both in 7 or 8 years
- Many PhD fields are possible
 - Non-traditional PhD training opportunities



MD-PhD Alumni.....

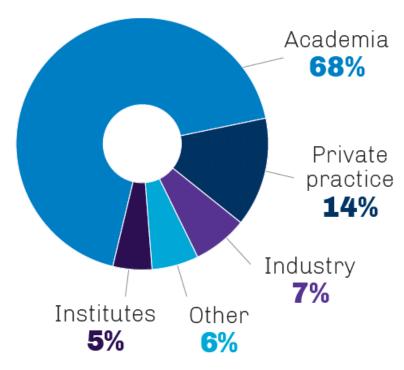
- Choose a variety of residency training specialties
- Do research more than 50% of the time
- Enjoy their careers; more than 80% would choose their career again



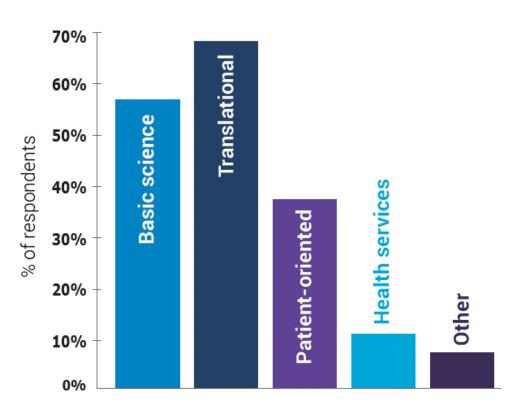


MD-PhD Careers: long term outcomes

Most MD-PhDs work in academia.



MD-PhDs conduct various types of research.

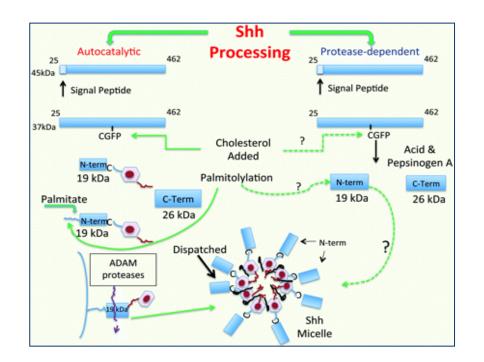




A Career as a Physician Scientist



Juanita Merchant, MD, PhD
Professor of Medicine
Chief, Division of Gastroenterology



...studies transcriptional control of gastrointestinal peptides that regulate cell growth and cancer







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Elements of a successful MD-PhD application



What constitutes a substantive research experience?

 Enough research experience to understand what you are getting into:

Multiple summer projects

Undergraduate research, Senior research thesis

 One or more years pursuing research after undergraduate degree (Post-bac)

Become familiar with testing a hypothesis



MD-PhD Statistics (2018-19)

- 5,563 MD-PhD trainees nationally
- 2018-2019 Application cycle (matriculated Summer/Fall 2019):
 - 1855 MD-PhD applicants (>50K straight MD)
 - 14 applications submitted/applicant (avg)
 - 672 matriculants: ~1/3 of MD-PhD applicants will enter an MD-PhD Program in 2019
 - 46% women entering 2019
 - 10.4% racial/ethnic URM
 - 8.9% multi racial/ethnicity



MD-PhD Applicant Statistics (2018-19)

	Mean	Range
Total applicant pool (n = 1,855)		
MCAT	510	472-528
GPA	3.6	1.9 – 4.0
Matriculants (n = 672), 36%		
MCAT	516	497 – 528
	(95%)	(40-100%)
GPA	3.8	2.7 – 4.0



Application Timeline Candidates Matriculating in the Summer of 2021

Pre-application (2-3 years)

- Courses
- Research
- Clinical exposures
- Activities and life experiences

Winter-Spring 2020

Preparing an exceptional application

Apply

Summer 2020

Apply

Fall 2020

Interview

Winter 2020/21

Acceptance

Summer 2021

Start

~1.5 year process

What should you look for in a MD-PhD program?

- Environment (research and academic)
- Students, program activities & professional development, community involvement
- Alumni achievement
- Location
- A sense of belonging or "good fit"





For more information:

- https://www.aamc.org/mdphd
- NIH.gov/training
- Role models
- Knowledgeable people who care about you:
- Directors and Mentors (Summer Program and Post-Bac)
- Professors, Lab Heads and Department Chairs
- MD-PhD Students, Graduate Students and Post-Docs
- Career Advising Offices
- PhD and MD-PhD Program Directors



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