Academic and Industry Physician Workforce Development in Experimental Neurotherapeutics BOSTON UC San Diego UNIVERSITY

INTRODUCTION

There is currently no standard method by which physicians-in-training (e.g., medical students, residents, or fellows) are introduced to clinical research careers in neurotherapeutics.

As such, decisions to embark upon a clinical research career in industry are based on very little first-hand exposure to "on-the-job training."

Traditional research training paths, such as MD-PhD or Medical Scientist Training Program (MSTP), typically do not focus on clinical trial/study design or principles of therapeutics development.

The main objectives were to:

- 1. Identify the needs for trained clinician-investigators in both academia and industry
- 2. Identify existing academic, academic-industry, and government-sponsored fellowships for postresidency fellows
- 3. Highlight difficulties of early career neurologists in finding relevant training opportunities

METHODS

Literature review and interviews with current fellows and early career faculty neurologists exploring a clinical research career in industry or academia

REFERENCES

- 1. Deplanque et al. Therapie 2020; 75:93-100.
- 2. Sweiti et al. Drug Discov Today 2019; 24:1865-70.
- 3. Lahiry and Gattu. Pharmaceut Med 2020; 34:175-84.

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Options for Post-Residency Neurotherapeutics Fellowships (2 yrs)

Academic University of Rochester Experimental Therapeutics T32 Fellowship

> Academic-Industry MGH-Biogen MGH-Takeda MGH-Pfizer

Government NIH-FDA Fellowship in Clinical Trial Methodology and Regulatory Science

U of Rochester T32: https://bit.ly/2Nd8tT3 *MGH-Biogen fellowship: <u>https://bit.ly/3pnODS8</u> MGH-Takeda fellowship: https://bit.ly/3api2ac Pfizer PfIRe-MGH fellowship: <u>https://bit.ly/2NylxIG</u> NIH-FDA fellowship: <u>https://bit.ly/3alVzLi</u>

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RESULTS

Physicians' perspectives are necessary for determining unmet health needs for a given patient population¹ and therefore, decision-making regarding the development of a specific therapeutic agent.

Physician expertise is needed for various specific functions relevant to testing and developing the therapeutic in a clinical population^{1,2}

Program

U of R T3 MGH-Biogen MGH-Takeda MGH-Pfizer **NIH-FDA**

Difficulties facing fellows and early career neurologists include deciding what is the optimal time spent in practice before joining industry², finding appropriate programs with on-the-job exposure, and visualizing the long-term career path. DISCUSSION A mentoring and education committee through a professional society, such as ASENT, with outreach to neurology residents and residency programs may help improve awareness of these training and career paths.

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n	Duration	Academic time	App deadline
32	2 yrs	100%	Rolling
	2 yrs	50%	Nov 1
	2 yrs	50%	Nov 1
	2 yrs	25%	Nov 1
	2 yrs		Rolling

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