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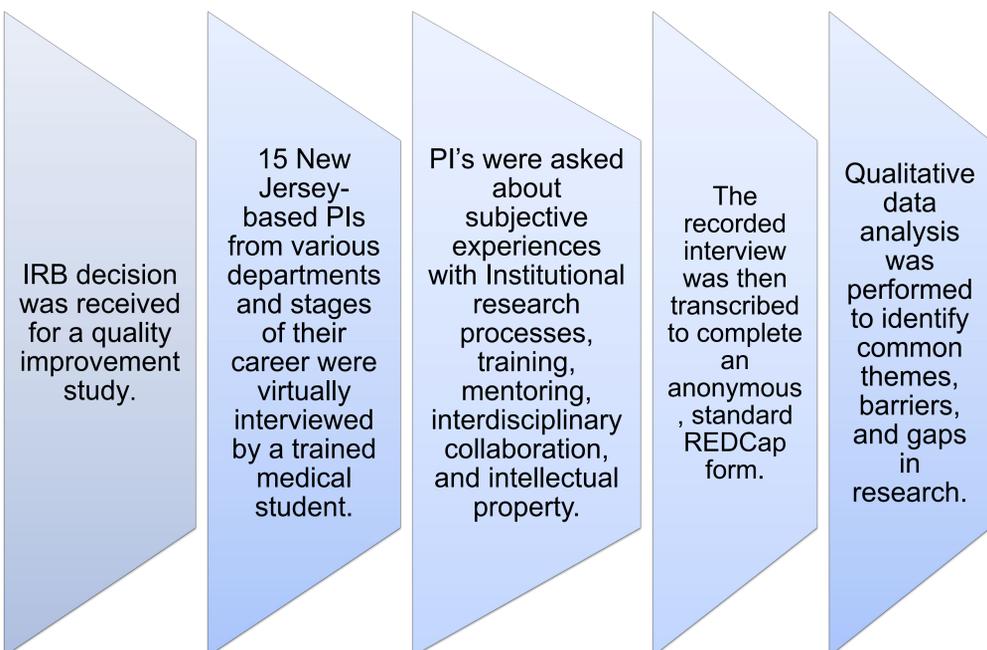
Introduction

Despite expanded interest in translational research, there still remain significant barriers for basic scientists to translate their research into clinical applications, including barriers in research funding and infrastructure, training opportunities, and interdisciplinary collaboration.

Study Goals

- 1) assess the training and/or information needs of basic science faculty to do translational research,
- 2) assess how institutional policies and processes affect their ability to successfully conduct translational research, and
- 3) evaluate possible barriers to accessing clinical collaborators, mentors, or others to support translational research efforts.

Methods



Standardized questions asked of the PIs.

Are you currently or have you been involved in the past in any translational research based on your basic science findings? If yes, please describe in a few sentences.

Do you believe that your research is ready for translation into human subject applications? If no, why not? If yes, what could be the next step?

What is the biggest barrier you face/or have faced in translating your research into human subjects' research?

What resources or training would help or have helped you the most in overcoming your barriers to translational research?

Does our institution's policies, procedures, and infrastructure adequately support and facilitate translational research? If not, how does this impact your work? In particular, what do you find is lacking?

What challenges or gaps exist for you when navigating the research process, such as knowing the regulatory process, navigating the IRB, federal IND, federal funding etc.?

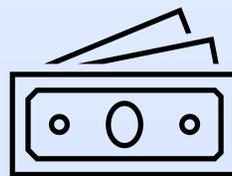
If you had adequate support and resources, would you have expanded your translation efforts? If so, how?

Do you feel like you have/had the appropriate training to successfully conduct translational research? If not, what kind of training or mentoring should be offered?

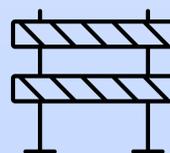
Do you feel there is stigma or career consequences for pursuing translational research rather than basic science research?

Do you/did you find challenges in identifying and working with interdisciplinary collaborators? Please explain the barriers you face/have faced. What other disciplines have you incorporated into your research proposals?

Do you plan to, or have you submitted an invention disclosure for your research discoveries? If so, What challenges or gaps have you encountered when navigating the research innovation process (invention disclosures, patents & licensing, start-up)? Are there specific areas where Rutgers could be more helpful in this regard?



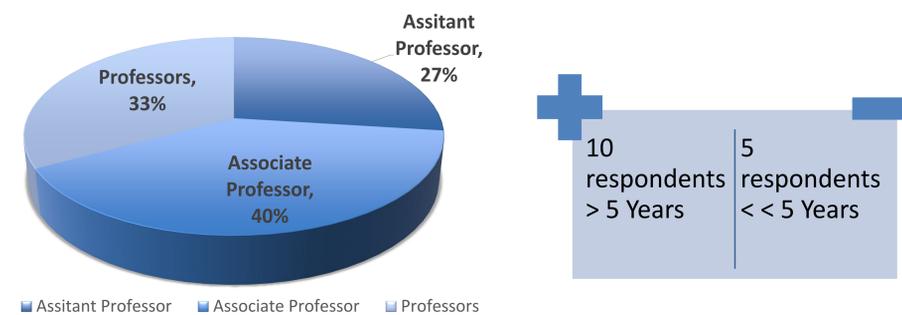
The most reported barrier was need of more translational research funding.



Other barriers included collaborator relations, sample acquisitions, clinical research workforce needs, administrative red tape, and time.



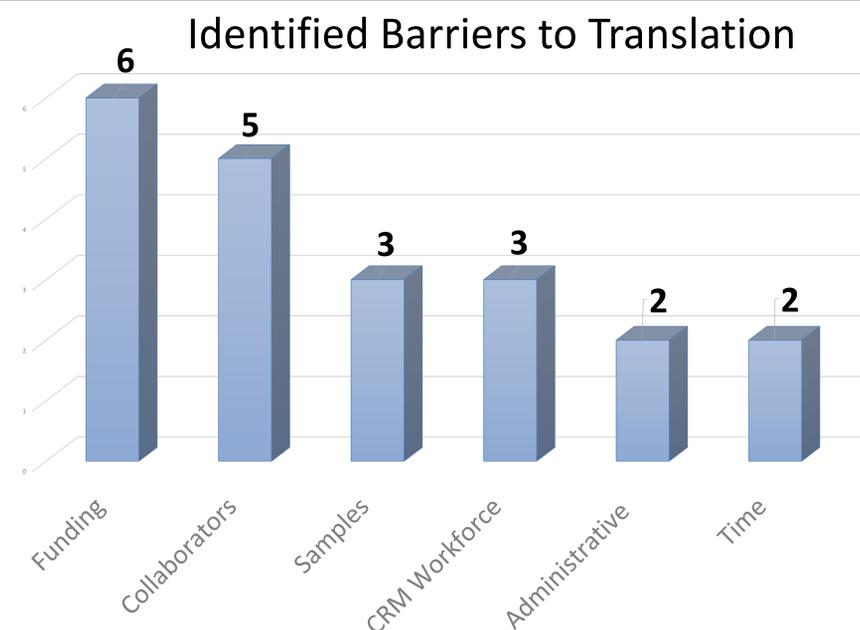
Results – Survey Population Characteristics



Results – General Response Summary

- Of the 15 PIs, 4 (27%) were assistant professors, 6 (40%) associate professors, and 5 (33%) professors.
- 5 (33%) joined the institution <5 years ago.
- One PI noted they were leaving the institution due to difficulty accessing clinical collaborators and patient samples.
- PIs with extensive training or who reported successfully conducting translational research noted fewer barriers.
- PIs praised their institution's innovation office for providing exceptional support and timely guidance with the innovation process.
- Suggested solutions included programs and grants to link basic scientists with clinicians, a streamlined IRB process, and better staffing to support research.

Results – Breakdown of Barriers to Translation



Acknowledgments

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