

Basic and Translational Science What Do I Need in My First Job To Succeed?

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Disclosures



None

My Career Path



•	General Surgery Residency at Cornell	2005-2012				
•	Two year dedicated Basic Science Research Fellowship at MSKCC after PGY3	2008-2010				
•	Surgical Oncology Fellowship at MSKCC	2012-2014				
•	First attending job at Dartmouth-Hitchcock Assistant Professor of Surgery	2014-2019				
	"Perfect" clinical job: sarcoma, melanoma, gastric cancer (+breast)					
	20% research time with opportunities for internal funding					

Timeline



Faculty Year	1	2	3	4	5
Clinic	2 d/wk	2 d/wk	1.5 d/wk	0.5d/wk	0.5d/wk
OR	2 d/wk	2 d/wk	1.5 d/wk	1d/wk	1d/wk
Research time	20%	20%	40%	75%	75% -> ?
Grants		DHMC surgery grant -\$ not time		KL2 CTSA - \$ and time	
			Dartmouth SYNERGY grant – time not \$		ACS-CSDG 50% R01 Co-l 10% K08 scored





NATURE | EDITORIAL





More surgeons must start doing basic science

They say they don't have the time or incentives to do research — and that's dangerous for translational medicine.

21 April 2017 | Corrected: 25 April 2017



News & Views | Published: 22 November 2016

Surgery

The surgeon–scientist – a dying breed?

Solomon L. Woldu & Ganesh V. Raj



Resilience

Persistence

So... you want to be a surgeon-scientist

Passion for research

Ability to accept failure

Educating the surgeon-scientist: A qualitative study evaluating challenges and barriers toward becoming an academically successful surgeon. Kodadek LM et al. *Surgery* 2016

Choosing the right job



- What's available?
- Clinical practice should parallel your research
- Do you want to have your OWN lab?
 - Do you LOVE writing grants???
- Who will you be learning from?

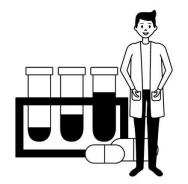


Research Start-up Package





\$ for X# of years



Lab staff



Equipment and lab space

Support and Infrastructure



Institutional environment









Medical School

Does the institution have a Clinical and Translational Science Award (CTSA)?

NIH - NCATS

Support and Infrastructure



Training and Career Development

Leadership







Knowledge advancement

Support and Infrastructure





YOU NEED TIME!!!!

Dedicated research time

Is it truly protected?

Clinical factors to consider



- Clinical time is ALWAYS more than what is scheduled
 - Calling back patients and referring providers
- More control over your practice will allow more true protected time
 - Supportive colleagues and adequate coverage
 - Outpatient vs inpatient/ complexity of case volume
 - Associate providers
- As you get more established in your research... your surgical practice blossoms (direct referrals, now you are known)

Your lab



- Integrating into a well established lab for a quicker start
 - Shared equipment and resources
 - Easy access to science discussions
 - More face time with mentors and collaborators
- Location
 - Easy back & forth to clinic/OR

