



New Faculty Orientation

The Clinician-Scientist Perspective

Stephen T. Bartlett, M.D.

Chairman, Department of Surgery

Peter Angelos Distinguished Professor

Surgeon-In-Chief

University of Maryland Medical System

- Starting your scientific career at the University of Maryland
- Avoiding sand traps
- Clinical success



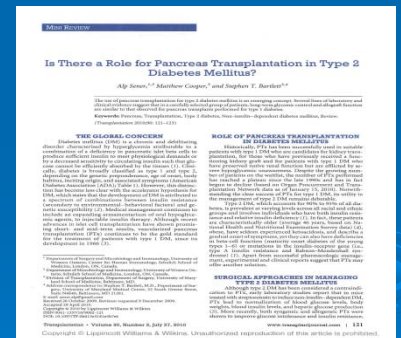
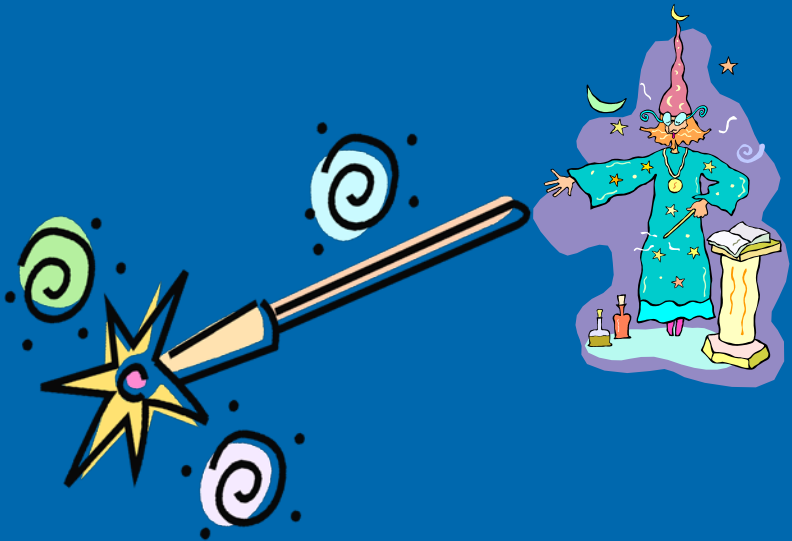
No Need to Pose a Scientific Question!



“Research Nurse”



“Data Base”



“Accepted Publication”

Scientific Career

- New faculty cover the range from no scientific experience to highly experienced researchers
- The highly experienced researchers (>Asst Prof) can take out their I-Phone4S. This is for entry level faculty

Choosing a Scientific Question

- Scientific curiosity must be born from passion
- When you read a textbook, journal article, care for patients, what makes you crazy? What issue makes you think, “Everybody is wrong but me, and I am going to prove it! For me: islets txps fail from autoimmunity
- Read everything written on the subject. Your literature review must be absolutely comprehensive.
- Start End Notes now. Write key points each article: never have to read it twice. The discussion sections of articles write themselves if you have command of the literature


1. [www.pubmed.gov](http://www.ncbi.nlm.nih.gov/pubmed)

2. www.cos.com



Choice Scientific Idea

Key Decision

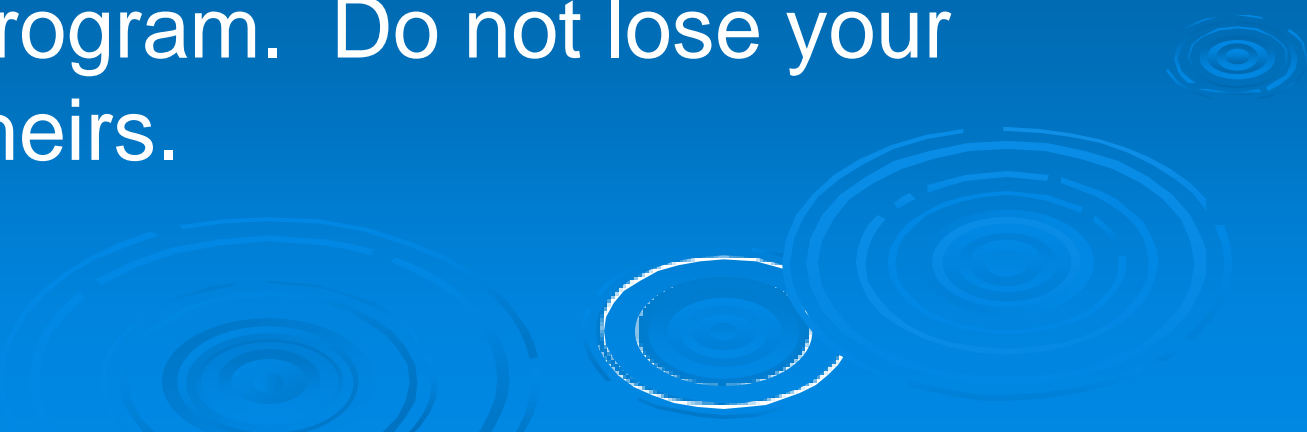
- Scientific question must be:
 - Tractable – can you get an answer?
 - Significant – important to large population, if you want to pursue a rare disorder or an arcane basic pathway, plan to be the best in the world if you want to get grant funding
 - Translatable
 - Start-up funds sufficient to cover cost of generating preliminary data?
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Scientific Idea Chosen

Choose a Mentor

- Available-pay attention to the cues: did they cancel two meetings before you met them the first time to discuss research?
- Know more than you
- Track record of career development- where are her/his trainees now?

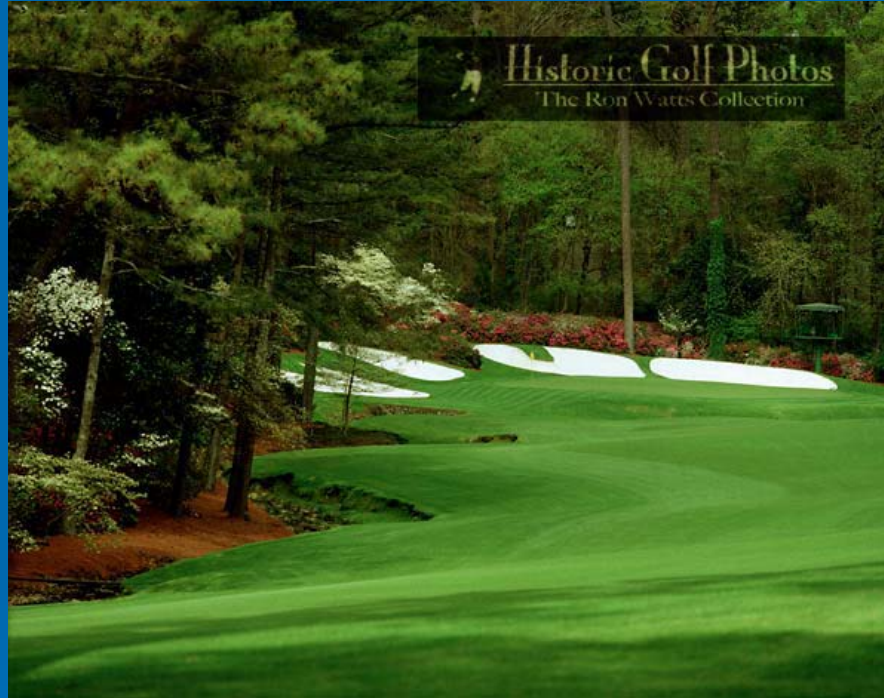
What If Your Mentor Recruited You?

- Everyone looking at their I-phone listen now
 - Make sure that you have a scientific idea of your own to pursue, in addition to the mentor's program. Do not lose your career in theirs.
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Clinical Demands vs. Scientific Development

- Who has time really?
- Do not fall into the trap of “I’ll build my clinical credentials first, then worry about science later.”
You never will.
- It will be OK for a while, but when your friends from residency or medical school are getting promoted, you’ll blame “the environment”, blame your Chair, and blame being on-call too much.
- Start your scientific program on the **FIRST DAY.**

Sand Traps



IACUC

Data
Collection/
Analysis

IRB

Warnings

1. Do not trifle with IRB (human subjects) rules and regulations. Period.
2. Do not trifle with IACUC (animal use).
3. Store your data in secure drives password accessible to all members of the scientific team. Assume a competitor or malcontent might question the validity of your work at any moment.
4. Before you send an email: each time ask yourself, would it be a problem if my S.O. read this? Would this be a problem if it were on the front page of the Baltimore Sun?

Clinical Activity

- If you are here you are probably extremely well trained, so clinical work will be the easiest thing you do.
 - Ask for help when you need it (pride goes before destruction and a haughty spirit before a fall (Proverbs 16:18)).
 - Document every time, on time.
 - Trust everyone, trust no one.
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