



SITEMAN CANCER CENTER[®]

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A National Cancer Institute Comprehensive Cancer Center

Strategies for addressing common concerns in collaborative research and how to maximize existing resources?

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Concerns

- Resource access and priorities of “collector” vs collaborator
- Academic careers –particularly junior faculty- that include a major contribution to team science

Resources

- Questionnaire data
 - (<http://epi.grants.cancer.gov/Consortia/cohort.html>)
- Blood based samples
 - Plasma (not renewable)
 - DNA (renewable?)
- Tissue samples
 - TMA gets us 100 slides (for cancer)
 - For benign premalignant lesions number of cuts assumed to be less

Cohort data

- Questionnaire data readily combined (hormones – Oxford; diet – pooling project; etc.
<http://www.hsph.harvard.edu/poolingproject/about.html>)
- DNA – combined in NCI funded large studies
 - cohort consortium (BPC3)
 - NHS samples in CGEMS (breast)
 - HPFS/PHS samples in CGEMS (prostate)
 - InterLymph – case-control studies combined
- Blood less readily shared due to non renewable nature

Non-renewable issues

- Priority goes to the collector /curator
 - Had hypothesis to do the collection
 - Expended years collecting cataloging and preparing samples for use
- Multilevel Challenge: balancing
 - careers (individual)
 - study (underlying research endeavor) and
 - scientific needs (society)

Large scale biomedical science (IOM report)

- Among difficulties addressed by committee was recruitment and retention of qualified scientific managers and staff for large scale projects
- Our challenge is the scientific leadership – training, retention, and promotion
 - Large-scale biomedical science. Exploring strategies for future research. NCPB/IOM 2001

Team Science

- Not large scale:
 - RO1
 - Program Project
- Large scale
 - SPOREs, EDRN, and transdisciplinary Centers (TTURC, TREC, etc)
 - Consortium
 - Through large scale studies the identity of the individual investigator becomes more difficult
 - The time commitment to building collaborations across institutions and even countries, and sustain the team effort increases

Tenure

- **Investigator criteria – HMS**
- Serve as associate professor with major accomplishments in research
- Continued publication of exceptional, original, and innovative research findings, and / or important clinical applications of basic science

Tenure (2) USC

- Promotion to associate professor with tenure requires evidence of independent research as reflected through funding (at least the equivalent of 2 RO1s – at onetime), and having a national impact on an area of research expertise as reflected through referee letters (of people with whom you have not collaborated) and publications in highly ranked journals

Where are we?

- Consortia type activities are already a common feature of the epidemiology programs at NCI; DCCPS and DCEG
- Our training programs do not offer any record of focus on how to prepare for participation in these large scale efforts
- Promotion criteria do not yet reflect these activities

Solutions - promotion

- Support junior investigators through the promotion system
 - Educate academic leaders (deans, provosts, department chairs, and other decision makers) that we can make major contributions through team science
 - Work to revise promotion “rules” to accommodate team science

Solutions

- Improve peer review process for consortia
- We need journals to allow long lists of authors – or other solutions
- We need to maintain funding of the basic components that feed into the consortia activities
- We need best practices readily identified
 - DCCPS can be repository

Addressing the challenges

- We have challenges
- The solutions are still to be defined
- We can continue to build collaborative large studies, frame the evaluation of large endeavors, and support the contributors to sustain academic careers and the research funding base