

2nd Annual Research Integrity Symposium October 7, 2016

Plenary Presentation:

Responsible Research Collaboration

Francis L. Macrina
Vice President for Research and Innovation
Virginia Commonwealth University



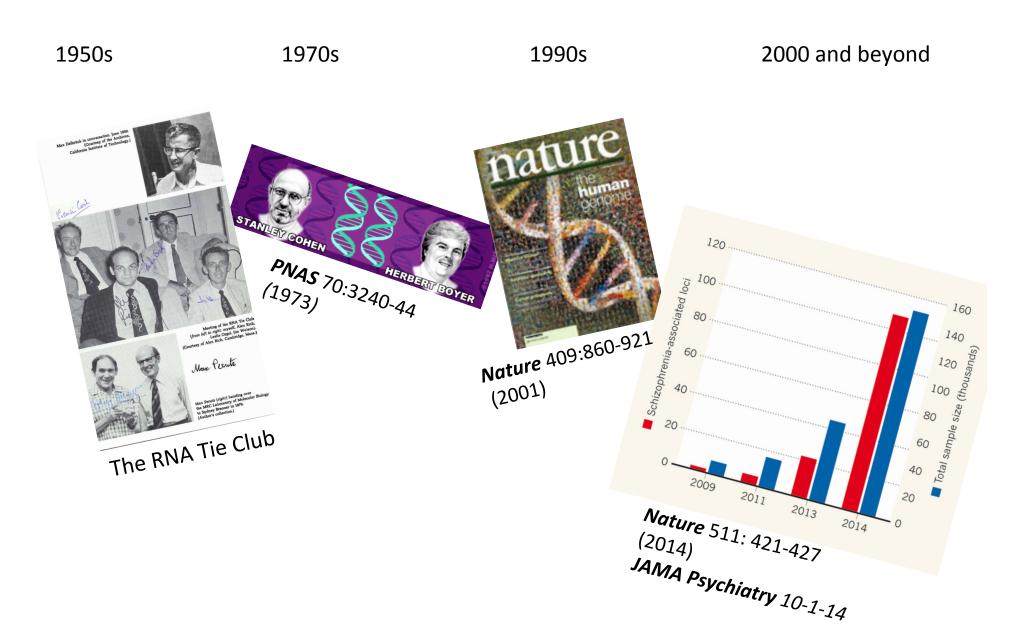
Most of the work still to be done in science and the useful arts is precisely that which needs knowledge and cooperation of many scientists . . . that is why it is necessary for scientists and technologists to meet . . . even those in branches of knowledge which seem to have least relation and connection with one another.

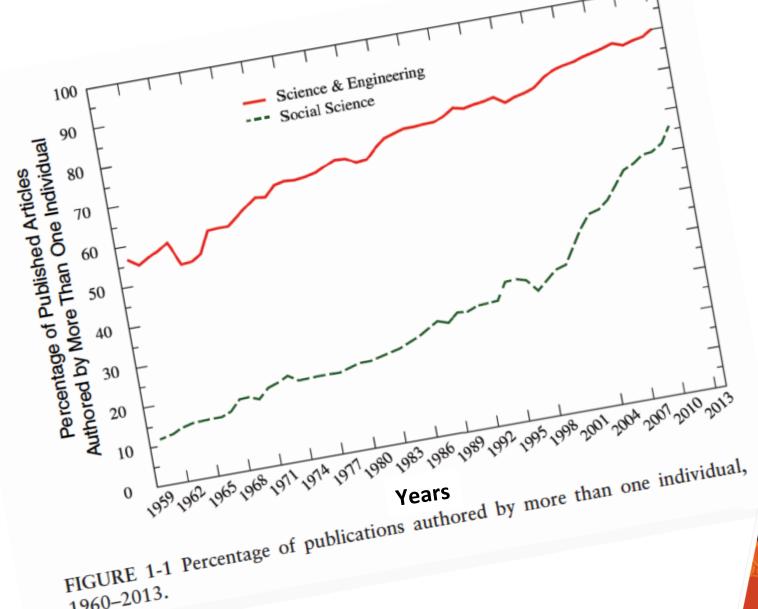
Antoine Lavoisier - 1793

If Watson had been killed by a tennis ball, I am reasonably sure I would have not solved the structure alone, but who would?

Francis Crick - 1974

Collaborative Research in the Life Sciences





1960-2013.







Drivers of Collaboration

Funders and other agencies

Communicating research

Institutions

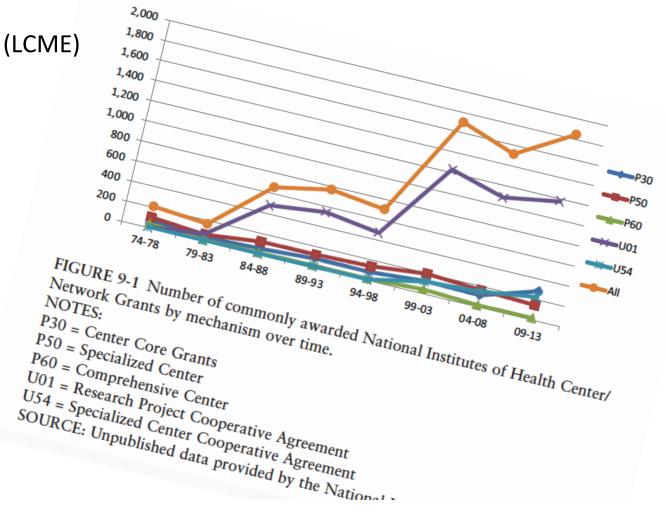
Funders and Other Agencies

Co-PI status

Funding Opportunity Announcements (RFPs: "Collaborative")

Infrastructure grants: e.g, NCI CCSG, NIH Clinical and Translational Award

Accreditation agency (LCME)





Institutions: Premium placed on interdisciplinary research

Strategic planning

Cluster hires

Promotion and Tenure

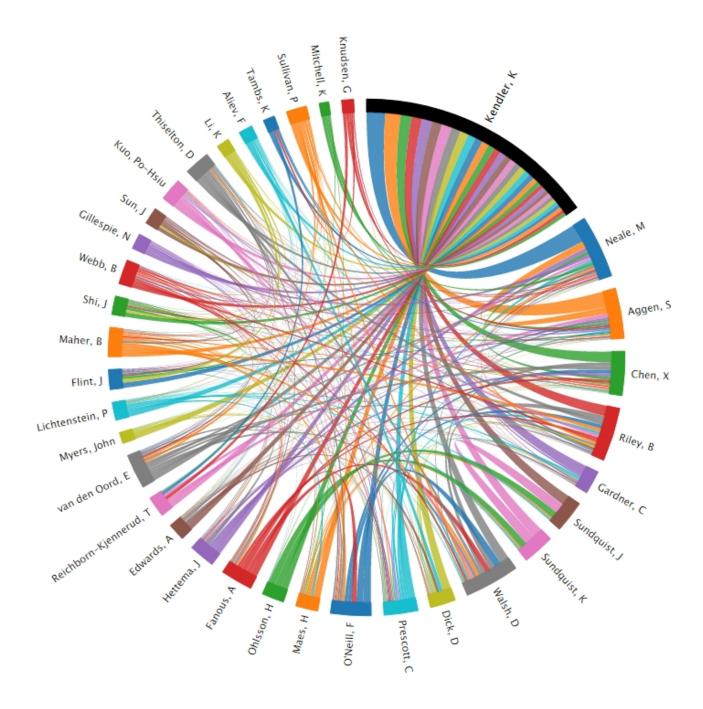
Technology transfer: GAP/Proof of Concept Grants

New infrastructure

The approved plans support multidisciplinary teams working in large
multi-use, collaborative spaces and
multi-use, the generation of new
will foster the generation of new
ideas and solutions to real-life
ideas and solutions to real-life
problems.

Warbhari





Communicating Research

Authorship guidelines

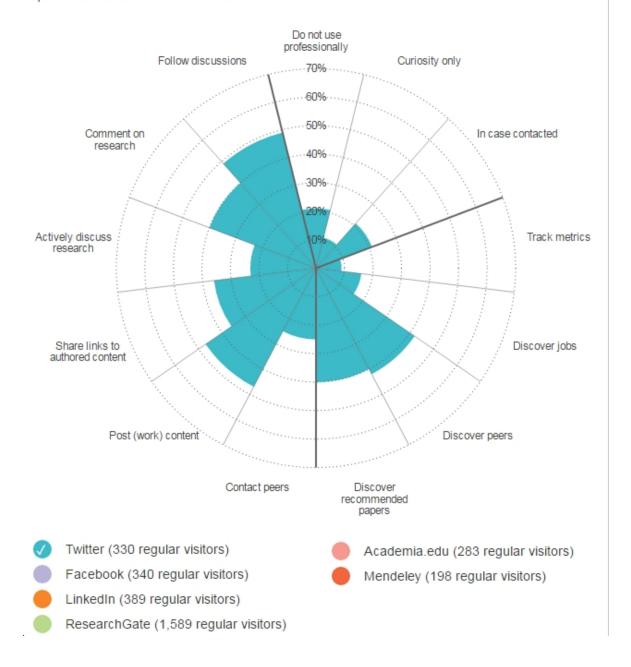
- -- Guarantor and Contributorship Model
- -- Accountability requirement
- -- All author submission approval
- -- Permitting identification of "equal" authorship

Preprint servers

Social Media

Interactive: Why scholars use social media

In *Nature*'s survey, a subset of scholars who said they 'regularly visited' social media sites were quizzed in detail about their activities.





Nature 14 August 2014

Making a Well-informed Decision to Collaborate

Do I really need this collaboration? For my own work? Advancement?

Can I contribute significantly even if there is no expected impact on my own work?

Do I have the time?

What might impede or compromise the collaboration? Any deal breakers?

Funding?

What do I know and what can I find out about my potential collaborator? (Respect, trust, compatibility, accessibility)



Challenges

Sharing the credit, responsibility, and reward

Competing Interests

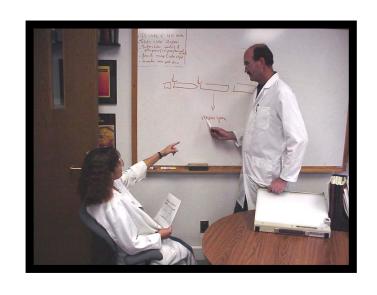
Existing Intellectual Property

Rigor and Reproducibility: data storage, access, and sharing

Risk Management

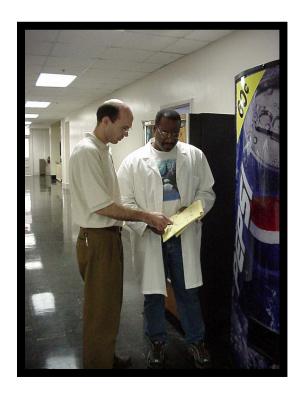
Dual Use Research of Concern

Export Control

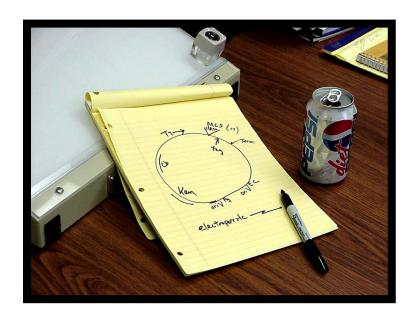


Collaboration plays a major role in scientific research

Realistic needs assessment is key



Plan, formalize, communicate





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