

# Flight Tracker Consortium Meeting

March 3, 2021



# Meeting Agenda



**Flight Tracker's Internal Data Sharing Algorithm**

**Email Lists**

**What's New?**

**What's Next?**

**Office Hours with Rebecca & Scott**

## Data Sharing: Central Problem

If you have more than one Flight Tracker operational at your organization, a scholar may be tracked in more than one instance.

Thus, possible to have multiple survey requests and wrangling.

Want to avoid extra work if possible.

➔ Automatic Data Sharing Inside a REDCap Installation



## Data Sharing: Characteristics



- Every **Saturday**
  - Only on same REDCap server
  - Only on projects with Flight Tracker External Module
  - Only on matching first names and last names (all derivations)
  - Pairs every project with another project
  - Only writes over blank information
- \*\*\* Does not use user-ids in matching
- Surveys, Publication Wrangling, and Grant Wrangling

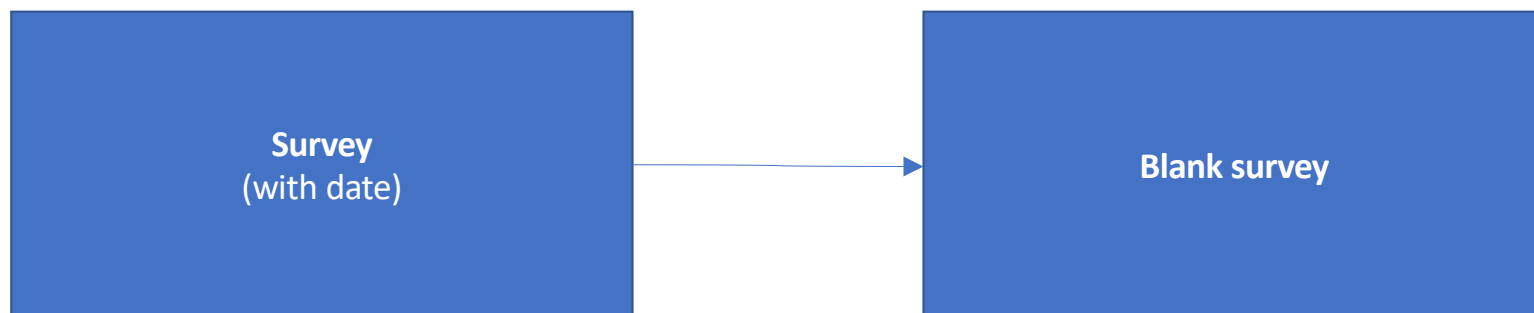


## Name Matching Algorithm

- Explode “**First-name (Nickname)**” into: First-name, Nickname
- Explode “**Maiden-Last**” into: Maiden-Last, Maiden, Last
- Explode “**Maiden Last**” into: Maiden Last, Maiden, Last
  - Except for van, von, van der, de, or de la
- **Pair all combinations** (*e.g.*, First-name Maiden-Last, Nickname Maiden-Last, First-name Maiden, Nickname Maiden, ...)
- Require a match on both first names and last names
  - If name is less than or equal to 4 characters, require exact match
  - If name is more than 4 characters, require that one name fits in the other

## Data Sharing: Surveys

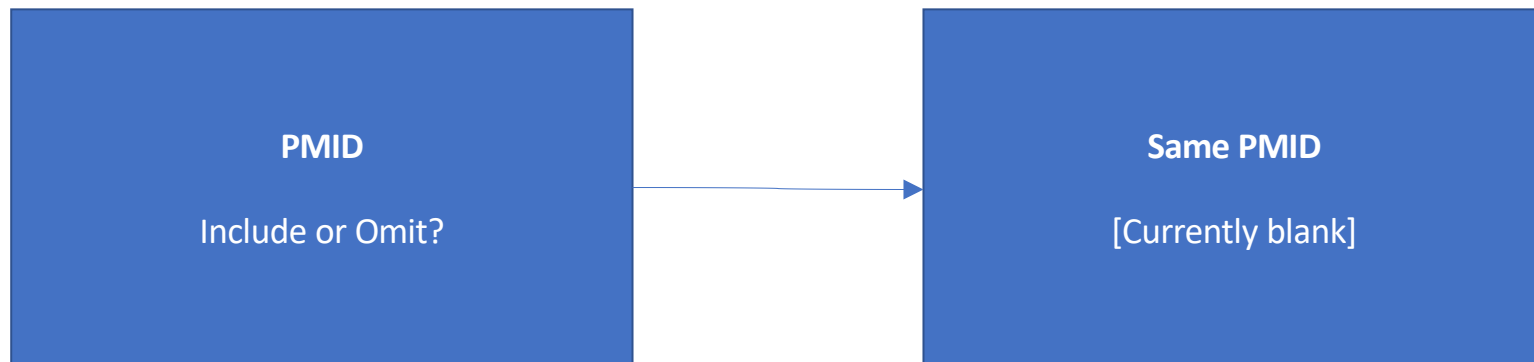
- Only Initial Survey and Follow-up Survey
- Only a complete survey (no incompletes) onto a blank survey
- Copies all fields
- Will be filtered into Flight Tracker's email utility with date
- Therefore, a scholar should not have to fill out unnecessary surveys!



# Data Sharing: Publication Wrangling

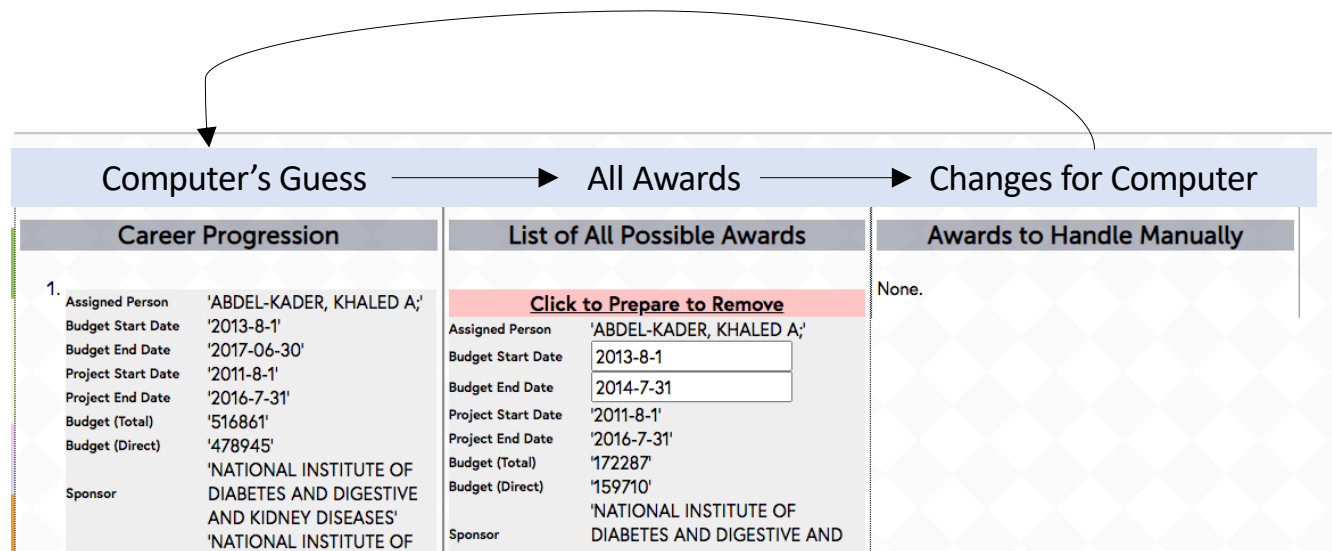


- Matches on PMID (along with scholar name)
- Only copy include/omit information onto a blank publication
  - No blanks written onto include/omit information
  - No include/omits written onto another include/omit → can disagree



# Data Sharing: Grant Wrangling

- Changes for Computer for each grant can be shared across projects
- Copy only if no other changes requested for that grant





## Email Lists



Received multiple requests for contact information of Flight Tracker lists. I have deliberately not yet fulfilled those.

Therefore, poll group with two separate questions:

1. Would adding to Edge for Scholars' email list be helpful? (You can always unsubscribe.)
2. Would providing information to commercial groups be helpful?

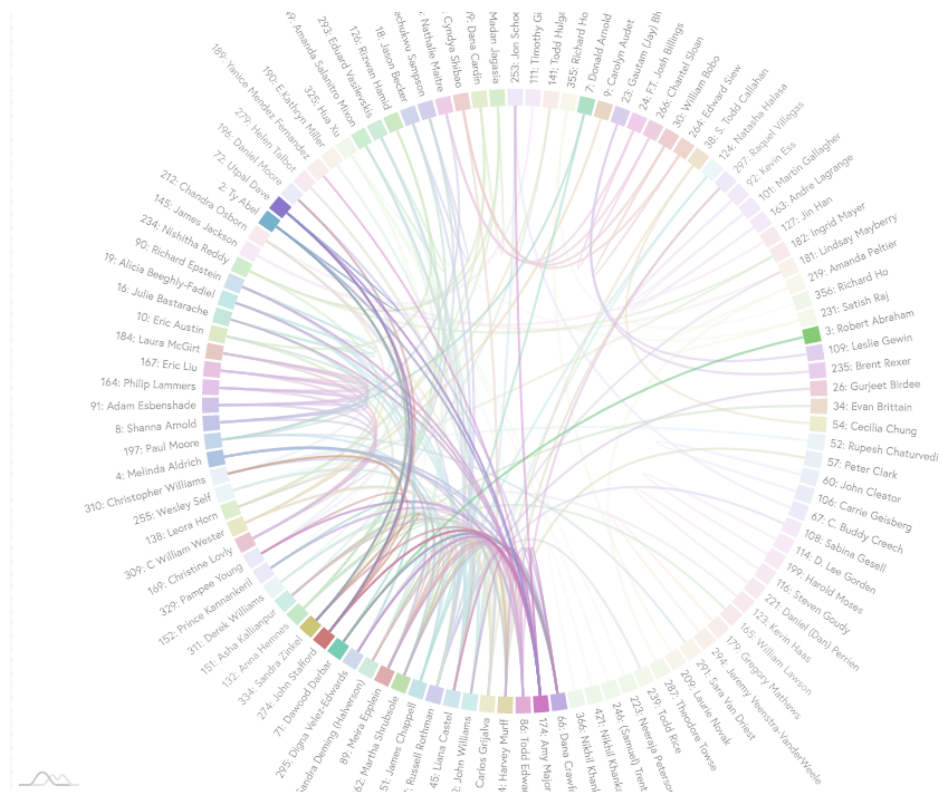


# What's New?



## Social Network Graph of Collaborations on Grants

- Same infrastructure as for collaborations on publications
- Under **View** Menu



# What's New?



## Financial Report of active grants' budgets at a date

- Ordered by department
- **View Menu** → **Active Budgets at a Time**

### Active Grants in Project at 03-01-2021

Active on

No-Cost Extensions are not represented in these data.

Group	Number of Faculty	Number of NIH Grants (Active)	Direct Dollars of NIH Grants (Active)	Total Dollars of NIH Grants (Active)	Number of Federal Grants (Active)	Direct Dollars of Federal Grants (Active)	Total Dollars of Federal Grants (Active)	Number of All Grants (Active)	Direct Dollars of All Grants (Active)	Total Dollars of All Grants (Active)
Medicine/Nephrology [104375]	15	8	\$12,612,743	\$18,449,380	8	\$12,612,743	\$18,449,380	9	\$12,986,283	\$19,038,891
Pathology [104500]	15	9	\$5,429,089	\$8,401,194	9	\$5,429,089	\$8,401,194	10	\$5,479,089	\$8,451,194
Medicine/Cardiovascular Medicine [104333]	15	8	\$3,737,351	\$4,855,074	8	\$3,737,351	\$4,855,074	9	\$3,877,351	\$5,009,074
Surgery/Thoracic Surgery [104726]	2	2	\$1,552,579	\$1,790,731	2	\$1,552,579	\$1,790,731	2	\$1,552,579	\$1,790,731

# What's New?



## Set Custom Grants as higher priority than surveys

<u>Old Source of Truth</u>	<u>New Source of Truth</u>
1. Manual Modifications	1. Manual Modifications
2. NIH ExPORTER	2. NIH ExPORTER
3. Federal RePORTER	3. Federal RePORTER
4. COEUS (Vanderbilt)	4. COEUS (Vanderbilt)
5. Follow-Up Survey	5. REDCap Custom Grants
6. Initial Scholar's Survey	6. Follow-Up Survey
7. REDCap Custom Grants	7. Initial Scholar's Survey

## What's New?

### Quicker publication data pulls

An **API** is an Internet URL that will fetch data from another database.

Most time is spent in accessing the server across the network.

Therefore, the goal is to make each call retrieve as much as reasonably possible in one fetch.

- Optimize iCite calls
- Optimize PubMed calls
- Altmetric – began talks about each site getting an API key (for cost)

PUBLICATIONS

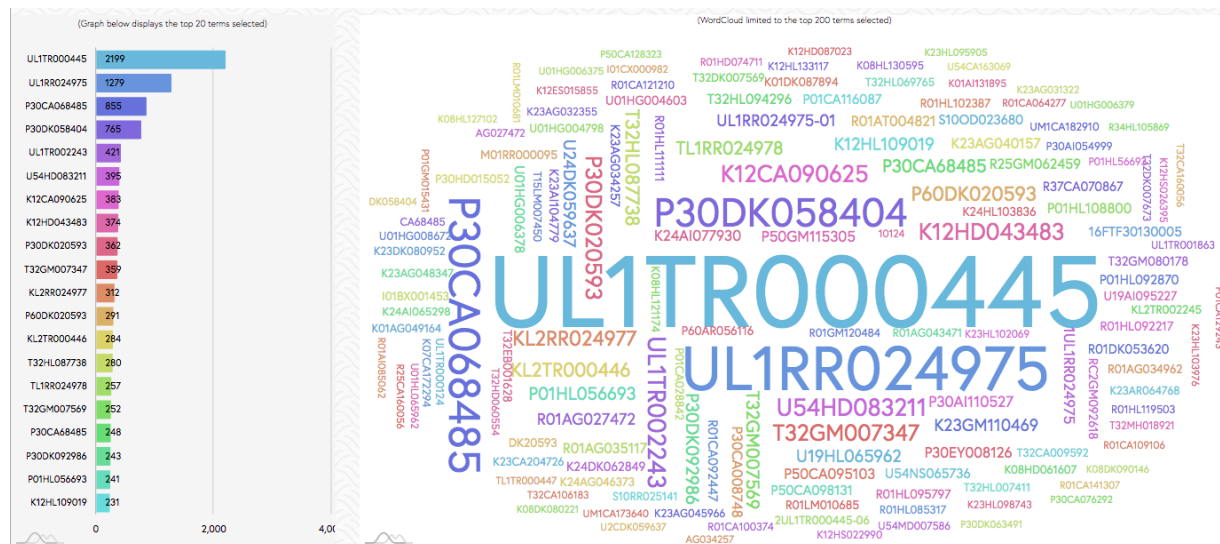


# What's New?

## Correlate publications with a certain grant

Can produce a Word Cloud of grants cited by your publication

**View** menu → **Word Clouds of Publications** → Associated Grants



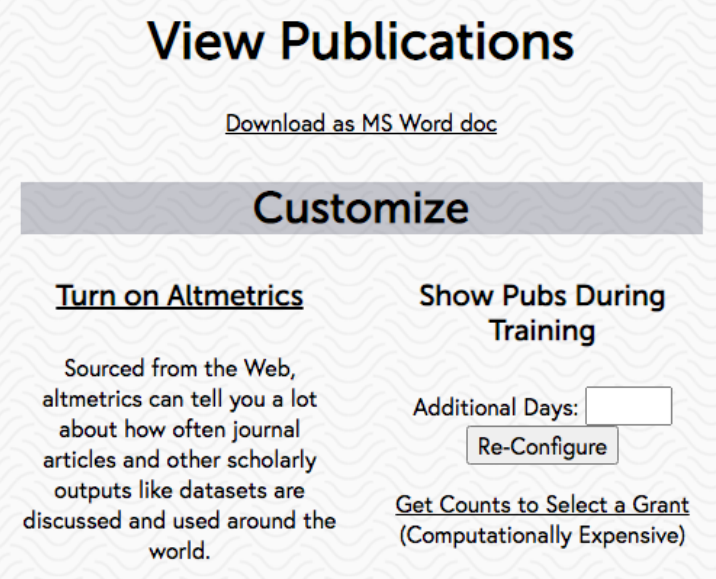
## What's New?

### Correlate publications with a certain grant

Can now make a publication list for a specific grant

(**View** menu → **Publication List**)

Have to search through all publications to make a list  
→ please be patient



**View Publications**

[Download as MS Word doc](#)

**Customize**

**Turn on Altmetrics**

Sourced from the Web, altmetrics can tell you a lot about how often journal articles and other scholarly outputs like datasets are discussed and used around the world.

**Show Pubs During Training**

Additional Days:

[Get Counts to Select a Grant](#)  
(Computationally Expensive)

←

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Additional Days:

**Pubs Associated With a Grant**



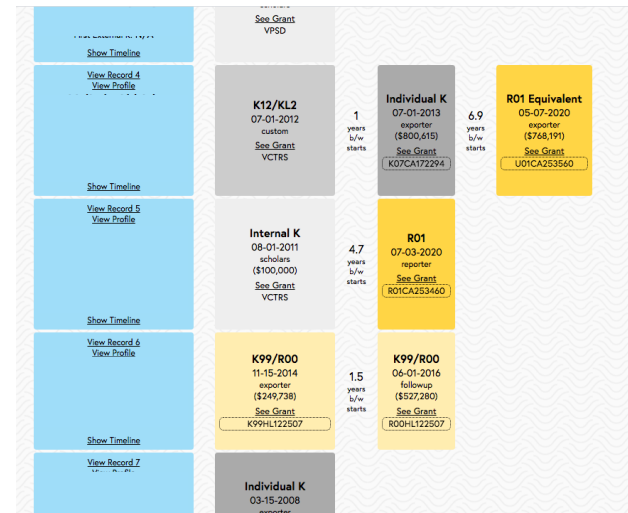


# What's Next?



## Adjustments for pre-docs and T-class training grants

- Minor miscellaneous adjustments
- Better count grant progression for Ts
  - T → K → R
  - T → Other grants
  - T → Science job
- Stylized CDA Table with training grants
- Mentors' publishing with trainees
  - Mentor stats
  - Already have co-authorship social network graph among trainees & mentors



## What's Next?



### Targeted Projects

- Everything: Mentoring + patents + publications + grants (default)
- Publications only
- Grants only
- Mentee-Mentor Agreements only
- Applicant Tracker (including intake survey)



# Office Hours with Rebecca & Scott

