Flight Tracker Consortium Meeting

February 1, 2023



www.edgeforscholars.org



https://redcap.link/flight_tracker

Meeting Agenda



What's New?

Filtering Publications on Charts
Scholar Inactivity Report
Updated Grant Wrangler

Current Version: v5.0.1

Deep Dive: Start to Finish on Grants

What's Next?

NIH Training Table 1 Support Documentation Update

Office Hours with Rebecca & Scott



What's New?

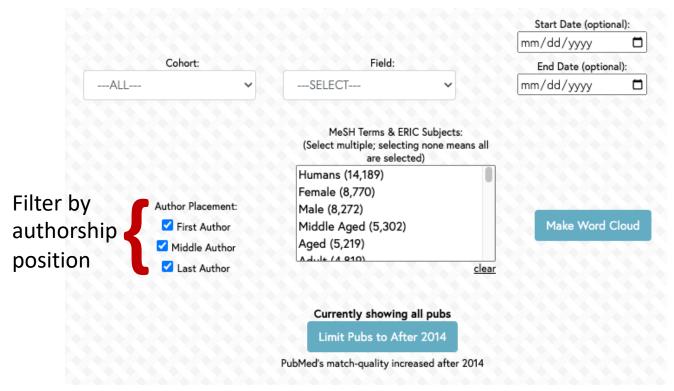
Filtering Publication Word Clouds



			Start Date (option	iai).	
			mm/dd/yyyy		
Cohort:	Field:	Field:		End Date (optional):	
ALL •	SELECT	~	mm/dd/yyyy		
	MeSH Terms & ERIC S (Select multiple; selecting n				
	are selected)				
	Humans (14,189)				
	Female (8,770)				
Author Placement:	Male (8,272)				
✓ First Author	Middle Aged (5,302)		Make Word (Cloud	
✓ Middle Author	Aged (5,219)		11000		
✓ Last Author	Adul+ /4 010\	clear			
	Currently showing all	pubs			
	Limit Pubs to After 2	014			

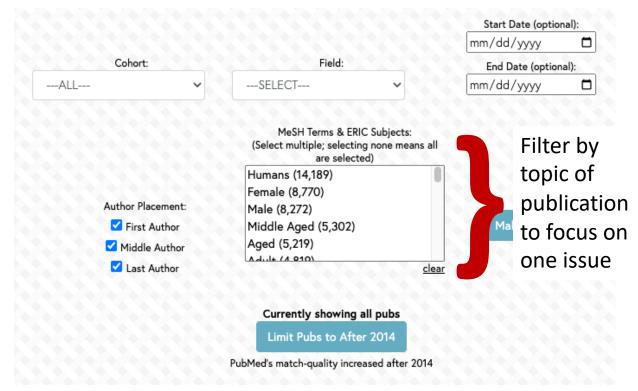
Filtering Publication Word Clouds





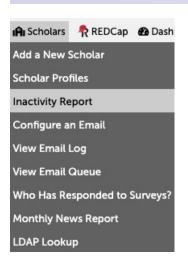
Filtering Publication Word Clouds





Scholar Inactivity Report





- Idea: Check for scholars without any new data in X number of months
- If inactive:
 - Retired?
 - Change institutions?
 - Change in job status?
- → Search Internet & possibly add Position Change Form

Scholar Inactivity Report



Scholars Inactive After a Certain Date

If a scholar is inactive for a period of time, you may want to check that she/he has not changed institutions. Of course, inactivity could be due to a number of other causes, like retirement or a change in job focus. Inactivity for both grants and publications is considered, but publication data must be wrangled in order to yield accurate results. Scholars without any confirmed publications are excluded from this list. Please fill out a Position Change form in REDCap if you find out they have made a career change.



Scholar Inactivity Report



Scholars Inactive After January 30, 2020

If a scholar is inactive for a period of time, you may want to check that she/he has not changed institutions. Of course, inactivity could be due to a number of other causes, like retirement or a change in job focus. Inactivity for both grants and publications is considered, but publication data must be wrangled in order to yield accurate results. Scholars without any confirmed publications are excluded from this list. Please fill out a Position Change form in REDCap if you find out they have made a career change.

Number of Months: 36

Make Report

Record 57: Chao Li - last active on 11-01-2019
Record 2: Michelle Lynn Baglia - last active on 07-01-2019
Record 11: Mi Ryung Han - last active on 05-01-2019
Record 22: Sudeshna Mukherjee - last active on 03-01-2019
Record 15: Webster Kasongo - last active on 03-01-2013
Record 14: Anne Wangui Kaiga - last active on 04-01-2012

Updated Grant Wrangler



- Version 5 released earlier this week
- The big new feature is an easier and spiffier Grant Wrangler
- Able to include or exclude certain grants

(More on this coming next...)





Deep Dive

Start to Finish on Grants

Downloading Grants

- Can turn on or off on Flight Tracker Home page
- On by default
- Included data sources:
 - NIH RePORTER all health-related grants
 - NSF Grants NSF & defense (DOD)
 - Dept. of Education (IES)
 - (Now retired) Federal RePORTER
- Like publications, match by name and institution
 - "Explode" names for all combinations (nicknames & maiden names)
 - Institutions = "home" institutions + institutions for record (Position Change)
 - Picky names and institutions must be exact



Off

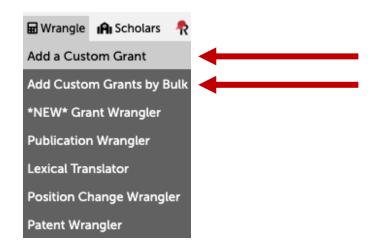


Manually Adding New Grants



Common Question: What about non-federal grants?

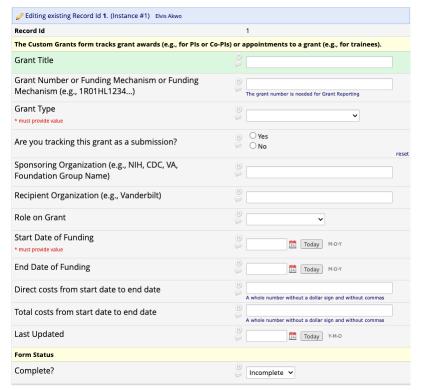
- E.g., Doris Duke Charitable Fellowship, American Cancer Society, American Heart Association, institutional grants
- Custom Grant form in REDCap
- Can also add in bulk (via CSV spreadsheet)
 - Template available on page



Manually Adding New Grants



- Custom Grant contains all grant information
- Can track costs
- Can track grant submissions, too



Manually Adding New Grants



- Want to automate and have some extra money?
- I have a guide to coach a PHP developer how to do this for your institution
- Estimate: 40 hours of targeted development work

We (Vanderbilt) hook it up to COEUS, our grants-management system, and it's a lot easier

VANDERBILT

Computing Grants: Issues



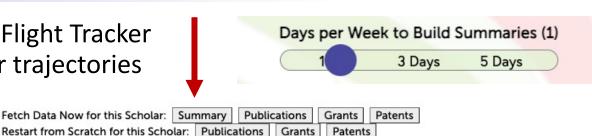
- How to filter out the noise?
 - Duplicates from multiple data sources
 - Details on REDCap form
- How to compare awards from different sponsors?
- How to construct a timeline for a scholar?
- How to construct a career trajectory for a scholar?



Computing Grants: Summary



 At least once a week, Flight Tracker reconstructs all career trajectories





- Can also update just one record's Summary
- Stored on Summary form in REDCap
- Contains demographics & up-to-15 most recent career-defining awards (= CDA)



Grant Categories/Bins/Types



- Internal K from your institution; not K12/KL2
- K12/KL2
- Individual K from NIH
- K Equivalent external, but not NIH
- R01
- R01 Equivalent 3+ years, > \$250k per year
- K99/R00
- Training Grant
- Research Fellowship
- Mentoring / Training Grant Admin



Grant Categories/Bins/Types



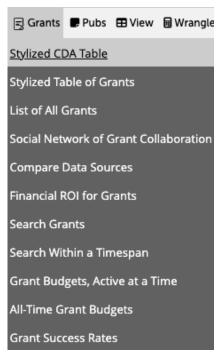
- Automatically placed into a category by computer's algorithm
- Smaller grants are filtered out
- Can view K→R conversions more easily (General menu → K2R Conversion Calculator)
- Individual K→R conversion status also on Summary form





Viewing Grants





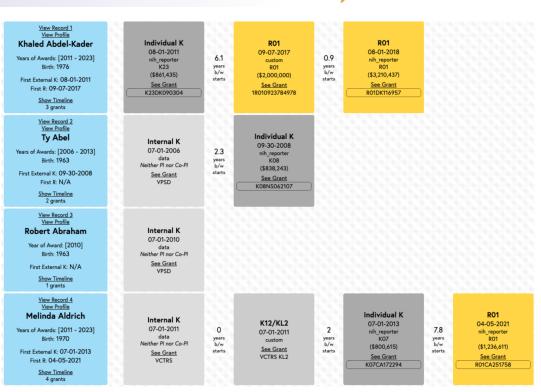


- Lots of ways to look at grants in Grants menu
- Not as many eye-popping visuals as publications
- We're going to focus on first two "stylized" tables
 - Same graphical paradigm, but different data

Stylized CDA Table



- CDA = Career-Defining Awards (from Summary form)
- More applicable to Kclass scholars/post-docs (not pre-docs)
- Can see K→R conversion
 en masse



Stylized Table of Grants



- Good for looking for everything pre-docs or details on post-docs
- Shows fellowships and other awards
- Slower for computer



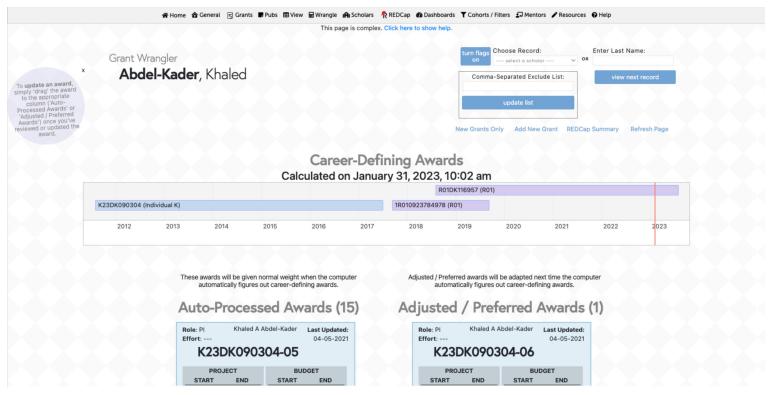
Correcting Automation



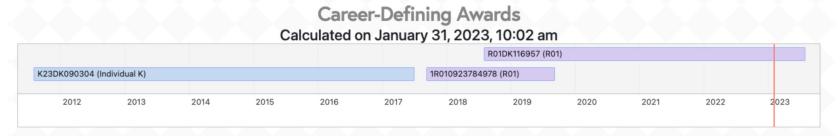
- A lot of automation at play here
- But code can be wrong at times
- "How can I correct the computer if it's wrong?"
 - → Grant Wrangler





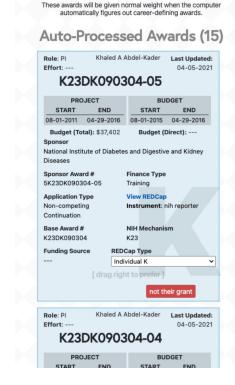






- Timeline of major awards (CDAs)
- Recalculated after each edit
- Check timestamp for recency date

- Left column all awards;
 automatically processed
- Right column any awards with changes or awards to be preferred in calculations (because of duplicates)
- Can drag-n-drop between the columns
- Drag-n-drop refreshes timeline





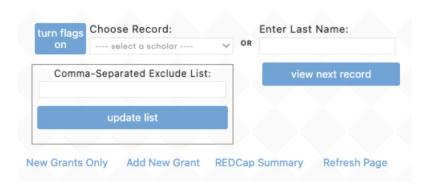
Adjusted / Preferred awards will be adapted next time the computer automatically figures out career-defining awards.

Adjusted / Preferred Awards (1)





- Exclude list names that are falsepositives
- Can view more information
- "New Grants Only"
 - A way to view only grants downloaded in last 60 days
 - Quickly look for changes and updates



Differences from Pub Wrangler



- Grants are fewer than publications
 - Grants are "opt out" instead of "opt in" (pubs)
 - New grants are automatically included before edits (unlike publications)
 - Make edits "mid-stream"
- Looking for "New Grants Only" can make the process quick
- Most of the time, no errors and algorithm is correct;
 thus, most of the time, no changes needed



Oops! Wrong Match!

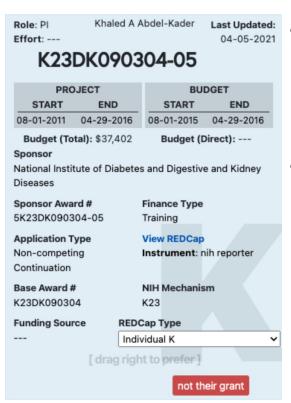
- E.g., Jo Ellen Wilson and John Wilson
- Click "not their grant"
- Add name to Exclude List at top?





Editing Information





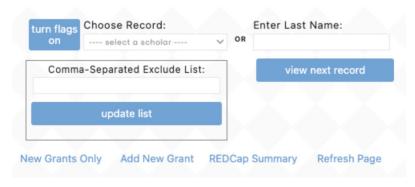
- Data sources are sometimes (but rarely) inaccurate
 - Can edit start/end dates for project and budget period
- Flight Tracker "binning" algorithm sometimes wrong
 - Can change REDCap Type

Flagging Special Cases

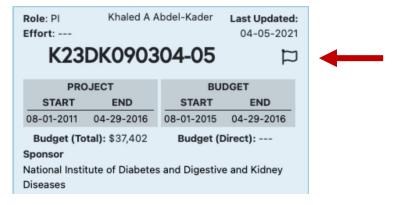


- Edge Case: Some research centers only want to view grants related to there are of interest (e.g., cancer, Alzheimer's)
- This will require manual effort, but you can turn flags on at the top

Step 1: Turn Flags On



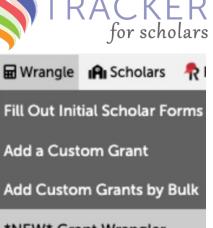
Step 2: Flag Individual Grants



Grants: Conclusion

- Getting any kind of award is a *big deal*
- K→R conversion likewise important
- Several ways to monitor (more than described here)
- Have been waiting on Grant Wrangler for a while
- Part of monthly review cycle; shouldn't take much time
- Hope: New Grant Wrangler will make handling grants more intuitive
- Flight Tracker version 5.0.0





NEW Grant Wrangler

Publication Wrangler

Lexical Translator

Position Change Wrangler

Patent Wrangler

BIRCWH Transition Forms

Poll



What Flight Tracker topics are you curious about?

Potential Deep Dive Topics



- "I've got a training grant due next cycle. How do I minimize the pain and stress?"
- "How can I report on my CTSA resources?"
- "How do I best design multiple Flight Trackers?"
- "How do I quickly wrangle publications?"
- "What are cohorts and what secrets can they share?"
- "How do I investigate K→R conversion?"
- ...Other (please share)



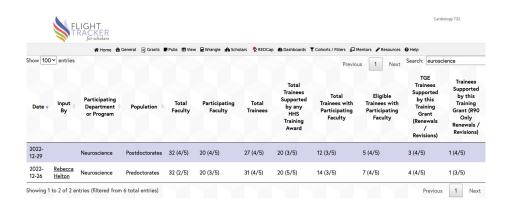


What's Next?

NIH Training Table 1 Support



- Current support for NIH Training Tables: 2, 3, 4, 5 & 8
- Last step: Table 1 for census of programs
- Relies on institutional collaboration for figures
- "Big project" for February



NIH 7	Training Table 1 Rows		AAA
Please o	omplete the survey below.		
Your ans	wers will be shared with other training grant administrators a	cross this institution. Thank you!	
1)	Name * must provide value		
2)	Ernail * must provide value		
3)	Participating Department or Program * must provide value		
	Postdocs and predocs must be entered separately so that the & 2. Some grants only have one component, and only that re		arts 1
4)	Population * must provide value	Predoctorates Predoctorates = Part I; Postdoctorates = Part II	reset
	The reliability index is a subjective measure to specify roug of 1 denotes a low reliability; a value of 5 denotes high relial to quickly ascertain whether they need to regenerate it or new terms of the control of the regenerate it or new terms of the regenerate it or new ter	bility. This index will allow consumers of yo	
5)	Total Faculty	Reliability Index (1 = low, 5 = high) 0 1 0 2 0 3 0 4 0 5	

Documentation Update



- Flight Tracker's in-app documentation is dated
- Will try to update in February
- Seek to provide more effective coaching
- Question for you:
 Is there anything that confuses you?



Troubleshooting Call



Monthly Troubleshooting Call (optional)

Third Wednesday at 1pm Central Time February 15, 2023

Driven by Your Questions & Problems

All are welcome!

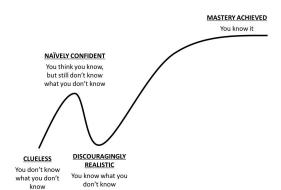
Ask to join our email list for an invitation...



Newbie Call



Just getting started with Flight Tracker?



There's a definite learning curve.

Move up more quickly by joining **February's "newbie" call**.

Friday, February 17, at noon Central Time [Thursday, March 16, at 2pm Central Time]

Leave your email in the chat to receive an invitation

Office Hours with Rebecca & Scott





www.edgeforscholars.org



https://redcap.link/flight_tracker