

Flight Tracker Consortium Meeting

July 2, 2025



www.edgeforscholars.org

https://redcap.link/flight_tracker

Meeting Agenda



Current Version:
v6.21.4

What's New?

Social Network of Collaborations by Cohorts
Increasing Minimum REDCap Version
Welcome, Ryan Moore!

Deep Dive: Publication Wrangling Inconsistencies

What's Next?

“Find a Collaborator” Major Upgrade

What's New?

Social Network of Collaborations



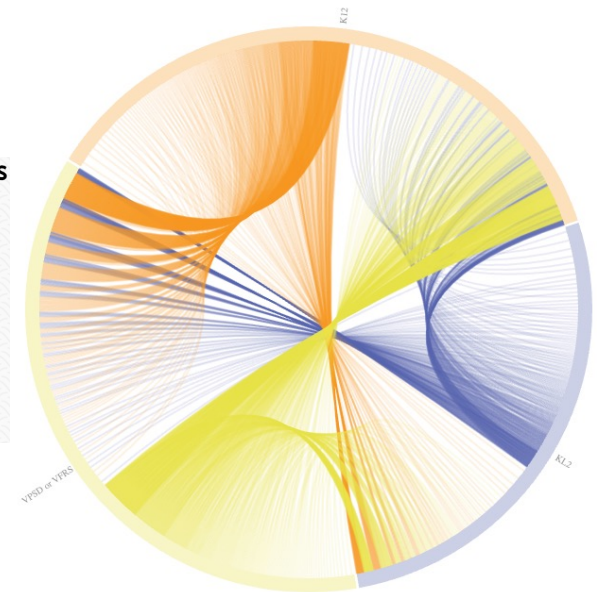
- In the next release [**v6.22.0**], the Social Network of Collaborations will have two revisions that allow you to group your scholars by either **Person Roles** or **Cohorts**
- Index by Field options:
 - Record ID [default]
 - Primary Department
 - Graduate Degrees
 - Current Division
 - **[Any Person Roles]**
 - **Cohort**
 - [Others...]

Publishing Collaborations Among Scholars

Make a Cohort to View a Sub-Group

Index by Field: Cohort

- ☐ Last CDA >= 2015
- ☐ Last CDA >= 2018
- ☐ NCI
- ☐ Female URM
- ☐ Active Ks
- ☐ Current Newman
- ☐ Last CDA After 2014
- ☐ Last CDA after 2012
- ☐ BIRCWH From List
- ☒ VPSD or VFRS
- ☒ K12
- ☒ KL2



Raising Minimum Requirements



- In the next release [**v6.22.0**], Flight Tracker will increase its minimum requirements to:
 - PHP version ≥ 7.4
 - REDCap version $\geq 14.0.2$
- By REDCap's records, **no one** will be incompatible for future updates
- Upgrading will enhance software security & developers' toolkit
- If you are incompatible, please contact me to troubleshoot



New Developer



- A new developer, **Ryan Moore**, will join Flight Tracker efforts alongside Andrew Johnson
- He's working with **Edge for Scholars** projects generally, not just Flight Tracker
- A priority for him is to familiarize himself with Flight Tracker
- You'll hear me mention his name



Deep Dive

Publication Wrangler
Inconsistencies

Publication Wrangling



- Main time-consumer in maintaining Flight Tracker data
- Two steps:
 1. Mass-approve longer, uncommon last names
 2. Look at non-approved scholars one by one – **our current discussion**

Existing Citations	
<input checked="" type="checkbox"/> 1. PubMed Search: Baer B, Lin J, Schaaf KR, Ware LB, Shaver CM, Bastarache JA . Matrix metalloproteinase-7 is dispensable in a mouse model of sepsis-induced acute lung injury. PLoS One. 2025-05-08; 20(5):e0321349. doi:10.1371/journal.pone.0321349. PubMed PMID: 40341670 Citation in REDCap PMC12061409.	Original Research reset
<input checked="" type="checkbox"/> 2. ORCID ID Match: Meegan JE, Riedmann KJ, Gonski S, Douglas JS, Bogart AM, Ware LB, Bastarache JA . Oxidation of low-density lipoprotein by hemoglobin causes pulmonary microvascular endothelial barrier dysfunction through lectin-like oxidized LDL receptor 1. Am J Physiol Lung Cell Mol Physiol. 2025-05-01. doi:10.1152/ajplung.00026.2025. PubMed PMID: 40249953 Citation in REDCap PMC12117588.	Original Research reset
<input checked="" type="checkbox"/> 3. ORCID ID Match: Riedmann KJ, Meegan JE, Afzal A, Cervantes-Cruz Y, Obeidalla S, Bogart AM, Ware LB, Shaver CM, Bastarache JA . Oxidized Cell-Free Hemoglobin Induces Mitochondrial Dysfunction by Activation of the Mitochondrial Permeability Transition Pore in the Pulmonary Microvasculature. Microcirculation. 2025-05-01; 32(4):e70012. doi:10.1111/micc.70012. PubMed PMID: 40394906 Citation in REDCap PMC12093041.	Original Research reset

Basic Question



How do I wrangle a scholar's publications
more accurately & more quickly?
What should I watch out for?

Outline



- Wrong name match
- Wrong institution
- Wrong ORCID match
- Varying initials in author list
- Publication before 2014
- Fixes besides correcting data:
 - Reset publication
 - Copy/paste PMIDs or PMCIDs
 - Exclude lists
 - Match without institutions [dangerous?]

Outline

①

②

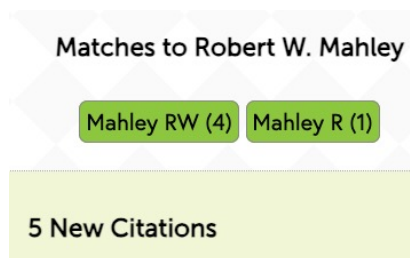
③



Wrong Name Match



- **Doppelgänger situation:** Same name
 - *E.g.*, Harold Moses & Harold Moses, Jr.
 - Check the middle initial
- **Remedy:** Uncheck the publication
 - When there are multiple author names, toggle all names at once via green button



Name “Explosion”



Flight Tracker “explodes” the names to include all available pubs:

- It searches all possible combinations of first names, nicknames, last names & maiden names
- From a maiden name?
- From a nickname?
- From skipping over the middle name?
- Doppelgänger scenario applies to each, too



Wrong Name Match



Situation: It pulls in data from the wrong person

- Cause: Your institution matches another author
 - Check the PubMed abstract via the link to PubMed PMID: #####

✓ 1. PubMed Search: Baer B, Lin J, Schaaf KR, Ware LB, Shaver CM, **Bastarache JA**. Matrix metalloproteinase-7 is dispensable in a mouse model of sepsis-induced acute lung injury. PLoS One. 2025-05-08; 20(5):e0321349. doi:10.1371/journal.pone.0321349. PubMed PMID: 40341670 Citation in REDCap PMC12061409.

- **Remedy:** Uncheck the publication

Matrix metalloproteinase-7 is dispensable in a mouse model of sepsis-induced acute lung injury

Brandon Baer ¹, Jason Lin ¹, Kaitlyn R Schaaf ², Lorraine B Ware ^{1 2}, Ciara M Shaver ^{1 2}, Julie A Bastarache ^{1 3 2}

Click here to see institutions

Affiliations + expand

PMID: 40341670 PMCID: PMC12061409 DOI: 10.1371/journal.pone.0321349

Wrong Institution



Affiliations — collapse

Affiliations

- 1 Department of Pathology, Microbiology, and Immunology, Vanderbilt University Medical Center, Nashville, TN.
- 2 Vanderbilt University School of Medicine, Nashville, TN.
- 3 Department of Medicine, Vanderbilt University Medical Center, Nashville, TN.
- 4 Division of Allergy, Pulmonary, and Critical Care Medicine, Department of Medicine, Vanderbilt University Medical Center, Nashville, TN.
- 5 Philips Research North America, Cambridge, MA.
- 6 Division of Pulmonary, Critical Care, Allergy, and Sleep Medicine, Department of Medicine, University of California, San Francisco, CA.
- 7 Division of Hospital Medicine, Department of Medicine, University of California, San Francisco, CA.
- 8 Division of Pulmonary and Critical Care Medicine, Department of Medicine, Zuckerberg San Francisco General Hospital, San Francisco, CA.
- 9 Department of Medicine, Zuckerberg San Francisco General Hospital, San Francisco, CA.
- 10 Cardiovascular Research Institute, University of California San Francisco, San Francisco, CA.
- 11 Division of Nephrology, Department of Medicine, University of California San Francisco, San Francisco, CA.
- 12 Department of Anesthesia, University of California San Francisco, San Francisco, CA.

- **Situation:** When you check out the PubMed abstract, your institution appears, but not with your person
- **Remedy:** Uncheck the publication

Missing Institution



- **Situation:** You're missing one of your scholar's institutions
 - Before they came to your place
 - After they left your place
- The Publication Wrangler has a list of institutions searched

16: Julie A Bastarache

Institutions Searched For: Vanderbilt University, Vanderbilt, Vanderbilt University Medical Center, Vanderbilt University School of Medicine, Meharry, Veterans Health Administration, and Tennessee Valley Healthcare System

- **Remedy:** Add a Position Change form in REDCap for that institution

Wrong ORCID Match



- Publications matched by ORCID are automatically accepted as wrangled
- **Nightmare situation:** You have a wrong ORCID!
- **Remedies:**
 - Get the right ORCID in the ORCID Wrangler [Wrangle menu] and remove the bad ORCID
 - Reset the incorrectly matched publications [described later]



Name	Outside Institutions in REDCap	Block All Searching?	ORCIDs in REDCap	ORCID Profile	
16: <u>Julie A Bastarache</u>	• Vanderbilt University	No <input type="button" value="block"/>	<u>0000-0003-0458-6507</u> <input type="button" value="remove"/> <input type="text" value="Add Custom ORCID"/> <input type="button" value="add"/>	ORCIDs <u>0000-0003-0458-6507</u> [in REDCap]	Profile Personal: <ul style="list-style-type: none">• Given Name: Julie• Family Name: Bastarache• Credit Name: Julie A. Bastarache

Initials in Author List



- **Rare situation:** Someone submitted a paper with a scholar's initials instead of their name
 - *E.g.*, SJ Pearson instead of Scott J. Pearson
- PubMed will not return results for the full name
- Rare, but no good way to automatically fill
- **Remedy:** Manually add the PMID/PMCID [described later]

Publications Before 2014



- **Situation:** PubMed's data quality increased in 2014
- Before 2014, PubMed included affiliations only for first authors
- During and after 2014, PubMed included:
 - One affiliation for each author during 2014
 - Multiple affiliations for each author after 2014
 - [Only if supplied by the publisher]
- **Remedies:**
 - You can do a manual name search without institutions
 - You may have to manually add PMIDs or PMCIDs



Tools to Fix Problems



- Reset publication
- Copy/paste PMIDs or PMCIDs
- Exclude lists
- Match without institutions [risky]



Reset Publication



- A publication's wrangling can be reset by clicking the tiny "reset" text on the Publication Wrangler then click "Finalize Pubs"
- Then you'll have to check or uncheck it, like it's a new pub

☒ **3. ORCID ID Match:** Riedmann KJ, Meegan JE, Afzal A, Cervantes-Cruz Y, Obeidalla S, Bogart AM, Ware LB, Shaver CM, Bastarache JA. Oxidized Cell-Free Hemoglobin Induces Mitochondrial Dysfunction by Activation of the Mitochondrial Permeability Transition Pore in the Pulmonary Microvasculature. Microcirculation. 2025-05-01; 32(4):e70012. doi:10.1111/micc.70012. PubMed PMID: 40394906 Citation in REDCap PMC12093041. Original Research

reset

RESET **3. ORCID ID Match:** Riedmann KJ, Meegan JE, Afzal A, Cervantes-Cruz Y, Obeidalla S, Bogart AM, Ware LB, Shaver CM, Bastarache JA. Oxidized Cell-Free Hemoglobin Induces Mitochondrial Dysfunction by Activation of the Mitochondrial Permeability Transition Pore in the Pulmonary Microvasculature. Microcirculation. 2025-05-01; 32(4):e70012. doi:10.1111/micc.70012. PubMed PMID: 40394906 Citation in REDCap PMC12093041. Original Research

reset

Reset Publication



- **Extra Hint:** You can change the “Include?” field on its REDCap Citation form to blank [=unwrangled] or “No” [=omitted]

Citation

Current instance: #**13** – 25730661 A randomized trial comparing didactics, demonstration, and simulation for teaching teamwork to medical residents | [Select another](#) [+ Add new](#)

 Editing existing Record Id 16 . (Instance #13) Julie Bastarache	
Record Id	16
PubMed ID (PMID)	<div><div>H</div><div>25730661</div><div></div></div>
Include?	<div><div>H</div><div><input checked="" type="radio"/> Yes</div><div><input type="radio"/> No</div></div>
reset	

Copy & Paste PMIDs/PMCID



The screenshot shows the FLIGHT TRACKER interface with two main sections: 'Lookup PMID' and 'Lookup PMC'. Each section has a text input field, a 'Go!' button, and a 'Switch to Bulk' link. A red arrow points from the 'Switch to Bulk' link in the 'Lookup PMID' section to the 'Switch to Single' link in the 'Lookup PMC' section. The 'Switch to Single' link is highlighted in red. Below the 'Switch to Single' link, the text 'One ID per line' is displayed in red. The 'Your citation[s] will go here' box is present in both sections.

- You can enter one PMID or PMCID at a time
- **Situation:** You have a CV with several PMIDs or PMCIDs
- **Remedy:**
 1. Manually edit them into a list, one per line
 2. Copy & paste the list into the Pub Wrangler to grab them all at once

Exclude Lists



- **Situation:** A scholar consistently matches the wrong person
 - Due to a bad name [e.g., Pearson SJ vs. Pearson AS]
 - Or from a different field [e.g., artificial intelligence]
- **Remedy:**
 - Add them to an “exclude list” at the top
 - You can add more than one item via a comma
 - Don’t forget to click the Update button!

To undo any actions made here, open the Citation form in the given REDCap record and change the answer for the **Include?** question. Yes means accepted; no means omitted; blank means yet-to-be wrangled.

Comma-Separated Author Exclude List:

Comma-Separated Title-Words Exclude List:

Match Without Institutions

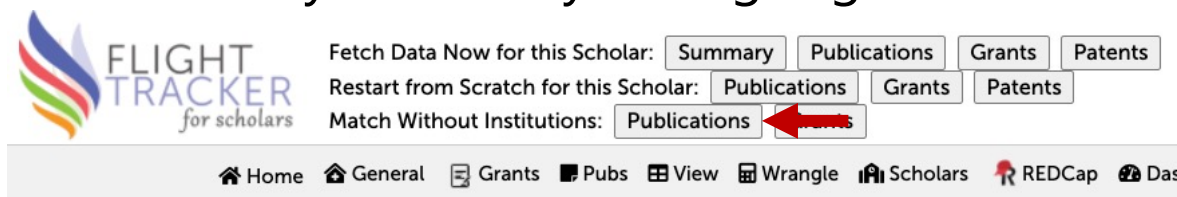


- **Situation:**

- You don't know if you have the institutions correct
- The name is fairly uncommon

- **Remedy:**

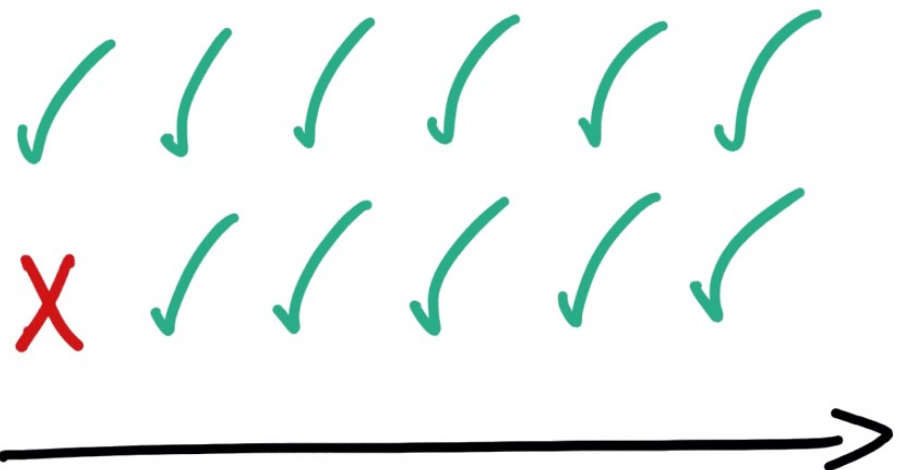
- Go on that scholar's record in REDCap or Flight Tracker
- Buttons will appear above the menu
- Click the "Match Without Institutions: Publications" button
- This action is risky because you might get false matches



Recap



- Wrong name match
- Wrong institution
- Wrong ORCID match
- Initials in publication author list
- Publication before 2014
- Fixes besides correcting data:
 - Reset publication
 - Copy/paste PMIDs
 - Exclude lists
 - Match without institutions [dangerous?]





What's Next?

Find a Collaborator



- Earlier in 2024, the Scholar Portal added a way to search all Flight Trackers for a certain publication topic [MeSH term]
- We've been using it to focus emails for career opportunities, like a research grant for "Health Services Research"
 - Avoiding excess email noise
- We love the targeting; we want to improve it:
 - Make a more advanced interface
 - Make a table of outputs
 - Add it to the admin side of Flight Tracker, too
- **In internal reviews**



Support Resources



Forum: Flight Tracker Community

Free accounts available

Monthly Troubleshooting Call

3rd Wednesday, July 16, at 1pm CT

Monthly “Newbie” Call

Tuesday, July 8, 11am CT

Monthly Getting Started Workshop

Friday, July 11, 11.30am CT

Type your email in the chat for more info



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