1. Data Flow

Grants in Original Sources

- \rightarrow Grant
- \rightarrow Grants
- → Summary of Grants

Demographic information

Spreadsheets and REDCap surveys

- → Summarized demographic information
- → Cohorts for analysis

2. Award Classifications

Definitions

Award-number pattern-match = starts with #[three-character, case-insensitive pattern, {letter}##] or starts with [three-character, case-insensitive pattern, {letter}##]

Preparation

Remove all suffixes

- -#{letter}## at end
- -#### at end
- -##{letter}# at end

Remove all prefixes for COEUS

- {letter}{letter}######{space}#{space} at beginning
- ######-###{space}#{space} at beginning

First Pass: Lexical translation

Match based of whether string matches award number (regular expressions).

VCTRS: Internal K VCRS: Internal K VPSD: Internal K VFRS: Internal K **VA Merit**: R01 Equivalent **VA Career**: K Equivalent

VA CDA: K Equivalent // VA, not plain, CDA

VCRS: K12/KL2 VCORCDP: K12/KL2 VEHSS: K12/KL2 NIEHS: K12/KL2 VEMRT: K12/KL2 VICMIC: K12/KL2 V-POCKET: K12/KL2 BIRCWH: K12/KL2

Human Frontiers in Science: K Equivalent

Clinical Scientist: K Equivalent

FTF: K Equivalent // First Things First Robert Wood Johnson: K Equivalent

ACS: K Equivalent

Dermatology Foundation: K Equivalent

Damon Runyon Cancer Research Foundation: K

Equivalent

LUNGevity: K Equivalent

AHA: K Equivalent

Burroughs Wellcome: K Equivalent

NASPGHAN: K Equivalent // North American Society for Pediatric Gastroenterology, Hepatology and Nutrition CDHNF: K Equivalent // Children's Digestive Health and

Nutrition Foundation **PhARMA**: K Equivalent

NKF: K Equivalent // National Kidney Foundation SDG: K Equivalent // Sustainable Development Goals CDA: K Equivalent // not VA CDA (covered above)

K Award: Individual K **DOD**: R01 Equivalent

Department of Defense: R01 Equivalent

Peds K12: K12/KL2 NCI K12: K12/KL2 NCIK12: K12/KL2 NCI-K12: K12/KL2

Second Pass

If award number blank or 000, then N/A

If not PI and not award-number pattern-matches K12, then N/A

If NIH mechanism equals K12 or KL2, then K12/KL2

If **award-number pattern-matches** on K12 or KL2: If **award-number pattern-matches** on K12 or KL2:

If COEUS and PI Flag N, then do not assign.

If COEUS/RePORTER/ExPORTER and PI Flag Y, then

Training Grant Admin

Else, K12/K12

Else, K12/K12

If **award-number pattern-matches** on VUMC, then N/A If **award-number pattern-matches** Unknown individual, then K Equivalent

If award-number pattern-matches R01, then R01

If NIH mechanism equals R01, then R01

If $award\text{-}number\ pattern\text{-}matches\ R00\ or\ K99\ , then\ K99\ /R00\ }$

If NIH mechanism equals R00, then K99/R00

If **award-number pattern-matches** T##, then Training Grant Admin

If budget >= 250,000 per year¹, project end – project start > 3 years, and not R01 and **award-number pattern-match** doesn't match K##, then R01-equivalent

Third Pass

If matches K23[space]-[space], then Individual K

If award-number pattern-matches K24, then N/A

If award-number pattern-matches R03, then N/A

If **award-number pattern-matches** IK2BX or IK2CX (VA Grants), then K Equivalent

If **award-number pattern-matches** I01BX or I01CX (VA Grants), then R01 Equivalent

If **award-number pattern-matches** R37, then R01 Equivalent If award number matches Internal K, then Internal K If award number matches Individual K, then Individual K

If **award-number pattern-matches** K99, then K99/R00 If **award-number pattern-matches** K## and doesn't match K99, then Individual K

If NIH mechanism equals K##, then Individual K

If award sponsor equals Veterans Administration, Tennessee, then K Equivalent

If sponsor type equals Non-Profit Foundations/ Associations AND percent effort >= 50% AND direct costs >= \$50,000/year for at least three years, then K Equivalent

Final Pass

All remaining N/A

3. Filtering Grants

Grants are filtered from an exclude list of people whose names are similar to names in the membership. E.g., Jane Johnson might be on the exclude list for Jane Johns.

4. Combining Grants

Grants are also combined if they have the same **base award number** (cf. section on Calculating the Base Award Number). All grants with type of N/A are not considered in the process of combining. This process creates one grant out of a sequence of grants and makes:

- Its start to be the earliest starting date in the sequence;
- Its end to be the latest ending date in the sequence;
- Its direct budget to be combined for all of the grants in the sequence;
- Its budget to be combined for all of the grants in the sequence.

 $^{^{\}rm 1}$ Approximately 90% (91.8% of the top 15,000 listed in FY2017) of R01 grants nationally in the NIH RePORTER meet this threshold.

5. Duplicate Grants

Definition

Two-or-more grants are considered duplicates of each other if one of the following is true:

- 1. They have the same **base award number** (cf. section on Calculating the Base Award Number). The script attempts to combine them (cf. section on Combining Grants).
- 2. They start on the same date and have the same type.

Preference

When two-or-more grants are duplicates of each other, the following order of priority of order of sources is used, with the most-preferred source coming first:

- modify = Grant Wrangler
- coeus = COEUS (only if have data before 2008)
- exporter = NIH ExPORTER
- reporter = Federal RePORTER
- custom = Custom Grant (REDCap form)
- followup = Follow-up Survey (later surveys preferred over earlier surveys)
- scholars = Initial Initial Survey
- data = Spreadsheet Newman "data"
- sheet2 = Spreadsheet Newman "Sheet2"
- new2017 = Spreadsheet of new scholars for 2017

Algorithm

- 1. Filter out exclusion list. This is a list of names which are often mistaken for members of this database. Currently, there is only one name: Harold L. Moses, the father of Harold Moses, Jr., one of our scholars.
- 2. Organize by data source (prioritized by order in the section Preference) and combine grants into a list, with one grant per award number. Combining grants will take place according to the protocol in the section of Combining Grants.
- 3. Import Grant Wrangling list of changes.

- 4. Make those changes to the grant list. When a grant is removed, it affects all grants with the same Base Award Number.
- 5. Order the grants by start date.
- 6. Remove duplicate base-award-numbers grouped by sources and combine these grants (grouped by sources) into a list, with one grant per base award number. Again, combining grants will take place according to the protocol in the section of Combining Grants.
- 7. All grants with type N/A are filtered out.
- 8. Remove duplicate base-award-numbers grouped by starting timestamp. If two grants start on the same date and have the same type, remove the grant that is of a less-preferred source. Again, the list in the Preference section is consulted.
- 9. Move data into final data structure for access. Prepare to save a copy in REDCap.

6. Calculating the Base Award Number

If the number can be broken up, Activity Code + Institute Code + Serial Number (usually six digits; sometimes more); otherwise, full sponsor award number.

HHS grants take the form of HHS[CHARACTER]#######[CHARACTER] or HHS[CHARACTER]##########[CHARACTER].

7. Handling Publications

Two NCBI Databases are accessed via their API E-Utilities. For more information on these, please visit https://www.ncbi.nlm.nih.gov/books/NBK25501/.

PubMed IDs are gathered from VUMC's internal publication script (which handles self-verification by each scholar) and directly from PubMed's eSearch API. PubMed eSearch is queried via the

scholar's name(s) and institution(s). *Citations without a PubMed ID are not handled.*

Information about each citation is acquired from the eFetch API with PubMed. The downloaded fields consist of: PubMed ID (PMID), PubMed Central ID (PMCID), DOI, Authors, Title, Publication Types, MESH Terms, Journal, Volume, Issue, Year, Month, Day, and Pages.

Each PubMed ID is used to access the citation on the iCite API. For more information on iCite, please visit https://icite.od.nih.gov/.

iCite provides the following fields: Is research?, Number of Citations by Other Papers, Number of Citations per Year, Expected Number of Citations per Year, Field Citation Rate, NIH Percentile, and Relative Citation Ratio. If no iCite record is matched, these fields remain blank.

There does not yet exist a foolproof way of matching a scholar's name with a particular scholar (i.e., the disambiguation problem). The publications are filtered through the known institutions, so mis-matches should be kept to a minimum. Nonetheless, each citation needs to be verified from a human.

VUMC's internal script has each scholar verify her/his matched citations. Therefore, these can be automatically included into our counts. PubMed matches that are not pre-matched need to be handled by the **Publication Wrangler**. Again, only names need to be verified in this step and nothing else.

7. Construction of Variables

Grant Information

Variable Name	Description	Data Source	Source File	Construction	Code Value / Format Label
	These are			All grants are downloaded into	
	intermediate			separate forms in the REDCap	
	values in the code			record. They are then imported	
	that are used for			into a generic format that is	
	calculation. As			described here. Then they are	
	such, they are			compared to each other,	
	passed to the			assembled in order of starting	
	final variables.			date, and filtered for duplicates	
				by base award number.	
Sponsor award	The full award	COEUS: Sponsor	Grant class	Directly assigned from data	String
number	number from the	Award Number		source	
	sponsor (e.g.,	RePORTER: Project			
	1R019999999-	Number			
	0101)	ExPORTER: Full			
		Project Num			
		Scholars Survey:			
		Grant number			
		Followup Survey:			
		Grant number			
		Custom Grant: Grant			
		number			
		Prior: Summary			
		Award Sponsor Number			
		Newman			
		spreadsheets:			
		• If of type K12/KL2,			
		K12/KL2			
		• If assigned a			
		sponsor type, use			
		this value			

		1	1		
Base award number	The basic award number without specification of the support year, other suffixes, or the application type fields (e.g.,	Otherwise label Internal K – Rec. ### or Unknwon Individual Rec. ### or Individual K – Rec. ### or R01 depending on placement in spreadsheet From Grant's Sponsor Award Number	Grant class	Calculated from sponsor award number	String Correlates with Sponsor award number
Is Federal	R019999999) A Boolean value whether the source is a known Federal source or not	COEUS: Direct Sponsor Type COEUS: Prime Sponsor Type ExPORTER form RePORTER form	Grant class	Perform the calculation for the direct_dollar amount, but only for grants designated Federal. If COEUS's either direct sponsor type or prime sponsor type as DOD, NASA, ED, NSF, Federal, DOE, NIH, or PHS, then Federal. If source is exporter or reporter, then Federal. (defined in Grant::isFederal)	Boolean
Туре	Award classification (bin) that we place this award in	Prior: Summary Award Type Custom: Manually Entered as Type Remaining: Calculated after all Grant information is entered	Grant class	Cf. Award Classifications (in section 2)	 99 = N/A (not in awards list) 1 = Internal K 2 = K12/KL2 3 = Individual K 4 = K Equivalent 5 = R01 6 - R01 Equivalent 7 = Research Fellowship

					• 8 = Training Grant Admin
Start	The starting date of the grant or of this portion of the grant (if divided into years)	Initial Survey: Grant Start Followup Survey: Grant Start Custom Grant: Grant Start COEUS: Project Start Date RePORTER: Project Start Date ExPORTER: Project Start Prior: Summary Award (Start) Date Newman: Spreadsheet Field	Grant class	Reformatted into YYYY-MM-DD format and assigned. In Coeus, if PI Flag = N, then assigned blank. In the algorithm, these numbers can be combined with other grants with the same Base Award Number and with the same Source.	Date data (YYYY-MM-DD)
End	The ending date of the grant or of this portion of the grant (if divided into years)	Initial Survey: Grant End Followup Survey: Grant End Custom Grant: Grant End COEUS: Project End Date RePORTER: Project End Date ExPORTER: Project End Prior: Summary Award End Date	Grant class	Reformatted into YYYY-MM-DD format and assigned. If from Newman spreadsheets, assigned blank. In the algorithm, these numbers can be combined with other grants with the same Base Award Number and with the same Source.	Date data (YYYY-MM-DD)
Source	The source of the data.	Prior: Summary Award Source Remaining: Hard- Coded into Grant Factories for each type of REDCap form	Grant class	Directly assigned from the form on which the data source sits	In order of priority: • modify = Data Wrangler • custom = Custom Grant (REDCap form) • coeus = COEUS

					 exporter = NIH ExPORTER reporter = Federal RePORTER followup = Follow-up Survey (later surveys preferred over earlier surveys) scholars = Initial Initial Survey data = Spreadsheet Newman "data" sheet2 = Spreadsheet Newman "Sheet2" new2017 = Spreadsheet of new scholars for 2017
Budget	The total budget for this portion of the grant. Cost from dates Start to End.	Scholars Survey: calculated from Grant Costs Followup Survey: calculated from Grant Costs Custom Grant: calculated from Grant Costs COEUS: Total Cost Budget Period RePORTER: Total Cost Amount ExPORTER: Total Cost Prior: Summary Award Total Budget	Grant class	Directly assigned from data source or calculated from direct costs and F&A rate (Scholars Surveys, Followup Surveys, Custom Grants only), depending on how the respondent entered the budget.	Floating point
Direct Budget	The part of the grant that is available for use (after F&A is subtracted). Cost	Scholars Survey: Grant Costs Followup Survey: Grant Costs	Grant class	If RePORTER data, calculated from the F&A rate and the total budget. Otherwise, directly assigned from data source.	Floating point

	from dates Start to End.	Custom Grant: Grant Costs COEUS: Direct Cost Budget in Period from Start to End RePORTER: calculated from Total Cost Amount ExPORTER: Direct Cost Amt			
Sponsor	The organization sponsoring the grant	Scholars Survey: Organization Followup Survey: Organization Custom Grant: Organization COEUS: Direct Sponsor Name RePORTER: Agency ExPORTER: IC Name Prior: Summary Award Direct Budget	Grant class	Directly assigned from data source	String
PI Flag	A Boolean value to tell whether the scholar is a PI/Co-PI of the given grant.	Scholars Survey: Role Followup Survey: Role Custom Grant: Role COEUS: PI Flag Prior: Y	Grant class	For COEUS, directly assigned from data source. For Scholars Survey, Followup Survey, or Custom Grant, Y if PI or Co-PI or not specified (blank); otherwise, N.	String Boolean Y = PI or Co-PI N = not PI and not Co-PI
Prime Sponsor Type	The COEUS type of sponsor; used to determine whether a grant is Federal or not.	COEUS: Prime Sponsor Type	Grant class	If COEUS, directly assigned from the data source. Otherwise blank.	String
Direct Sponsor Type	The COEUS type of sponsor; used to determine whether a grant is Federal or not.	COEUS: Direct Sponsor Type	Grant class	If COEUS, directly assigned from the data source. Otherwise blank.	String

Sponsor Type	The type of organization from which the grant originates.	RePORTER: Agency ExPORTER: IC Name COEUS: Direct Sponsor Type Newman: Calculated Type	Grant class	From COEUS, entered directly from encoded COEUS field. For RePORTER and ExPORTER, use the organization name For Newman, calculated from splitting a spreadsheet field	String (not enumeration)
Last Update	The date that the data was last updated according to REDCap scripts.	COEUS: Last Update RePORTER: Last Update Custom Grant: Last Update ExPORTER: Last Update	Grant class	Directly assigned from the PHP script that downloads the data	Date data (YYYY-MM-DD)
Link	An HTML- encoded hyperlink to the page with the original information	Hard-coded for each data source	Grant class	Directly assigned from the data source	String
Percent Effort	The percent effort that the individual devotes to the project.	COEUS: Percent Effort Prior: Summary Award Percent Effort	Grant class	Directly assigned from data source if extant; otherwise, blank.	Integer (percentage)
Summarized Av	vards				
[order of first 15 grants]		Grant Start, Grant Sponsor Number, Grant Base Number, Grant Source			
Date	Starting date for the award	Grant Start	Grant class	Assigned from grant data	Date data
End date	Ending date for the award	Grant End	Grant class	Assigned from grant data If grant is of type "Internal K" or "K12/KL2" and no end date	Date data

				exists. then apply the following logic: • If the scholar converts to an R01 or R01- Equivalent, the grant ends the day before the R01/R01Equiv grant begins. • Otherwise, the grant ends three years after the start date.	
Title	Title for the award	Grant Title	Grant class	Assigned from grant data	String
Last Update	The date of the last download (or update) for the award from the original source	Grant Last Update	Grant class	Assigned from grant data	Date data
Туре	Award classification (bin) that we place this award in	Grant Type	Grant class	Cf. Award Classifications (in section 2)	 99 = N/A (not in awards list) 1 = Internal K 2 = K12/KL2 3 = Individual K 4 = K Equivalent 5 = R01 6 = R01 Equivalent 7 = Research Fellowship 8 = Training Grant Admin
Source	Data source of award	Grant Source	Grant class	Calculated in 6b_makeSummary	In order of priority: • modify = Data Wrangler • custom = Custom Grant (REDCap form) • coeus = COEUS • exporter = NIH ExPORTER

					 reporter = Federal RePORTER followup = Follow-up Survey (later surveys preferred over earlier surveys) scholars = Initial Initial Survey data = Spreadsheet Newman "data" sheet2 = Spreadsheet Newman "Sheet2" new2017 = Spreadsheet of new scholars for 2017
Source type	Type of data source of award	Grant Source		Calculated in 6b_makeSummary from source	0 = Computer Generated 1 = Self-Reported 2 = Manually Entered
Sponsor no	Award sponsor number	Grant Sponsor Number	Grant class	Assigned from grant data	String data
Age	Age at start of grant (if date-of-birth specified)	Grant Start, Date of Birth	Grant class	Calculated from [start] date and identifier_dob	Floating-point number
NIH Mechanism	Three-letter NIH mechanism (e.g., K24, R01; if specified)	Grant Mechanism	Grant class	Directly assigned from COEUS.	String data
Total Budget	The total (direct + indirect) budget. Only applicable for the timespan from [start] date to end_date.	Grant Budget (total)	Grant class	Uses Grants class method to adjust for F&A. = [direct budget] * (1 + F&A) unless total budget is available from source, in which case that number is used.	Floating-point number; in dollars
Direct Budget	The direct budget transferred after F&A adjustment. Only applicable for the timespan	Grant Direct Budget	Grant class	Uses Grants class method to adjust for F&A. = [total budget] / (1 + F&A) unless total budget is available	Floating-point number; in dollars

	from [start] date to end_date.			from source, in which case that number is used.	
Percent Effort	Percent effort (if specified)	Grant Percent Effort	Grant class	Assigned from grant data	Integer
Conversion Vari	ables				
First Any K	The date of the start of the earliest grant of type Internal K, K12/KL2, Individual K, or K Equivalent	Grant Start, Grant Type	Grants class	In the Award List, find the first (earliest) grant with the given type; save starting date here.	Date data
First Any K source	Data source of award used in first_any_k	Grant Source	Grants	Copied from source of relevant grant.	 modify = Data Wrangler custom = Custom Grant (REDCap form) coeus = COEUS exporter = NIH ExPORTER reporter = Federal RePORTER followup = Follow-up Survey (later surveys preferred over earlier surveys) scholars = Initial Initial Survey data = Spreadsheet Newman "data" sheet2 = Spreadsheet Newman "Sheet2" new2017 = Spreadsheet of new scholars for 2017

First Any K source type	Type of data source of award used in first_any_k	Grant Source	Grants class	Calculated from source of relevant grant.	0 = Computer Generated 1 = Self-Reported 2 = Manually Entered
Last Any K	The date of the start of the latest grant of type Internal K, K12/KL2, Individual K, or K Equivalent	Grant Start, Grant Type	Grants class	In the Award List, find the last (latest) grant with the given type; save starting date here.	Date data
Last Any K source	Data source of award used in last_any_k	Grant Source	Grants class	Copied from source of relevant grant.	See first_any_k_source.
Last Any K source type	Type of data source of award used in last_any_k_source	Grant Source	Grants class	Calculated from source of relevant grant.	0 = Computer Generated 1 = Self-Reported 2 = Manually Entered
First External K	The date of the start of the earliest grant of type Individual K, or K Equivalent	Grant Start, Grant Type	Grants class	In the Award List, find the first (earliest) grant with the given type; save starting date here.	Date data
First External K source	Data source of award used in first_external_k	Grant Source	Grants class	Copied from source of relevant grant.	See first_any_k_source.
First External K source type	Type of data source of award used in first_external_k_s ource	Grant Source	Grants class	Calculated from source of relevant grant.	0 = Computer Generated 1 = Self-Reported 2 = Manually Entered
Last External K	The date of the start of the latest grant of type Individual K, or K Equivalent	Grant Start, Grant Type	Grants class	In the Award List, find the last (latest) grant with the given type; save starting date here.	Date data

Last External K source	Data source of award used in last_external_k	Grant Source	Grants class	Copied from source of relevant grant.	See first_any_k_source.
Last External K source type	Type of data source of award used in ast_external_k_so urce	Grant Source	Grants class	Calculated from source of relevant grant.	0 = Computer Generated 1 = Self-Reported 2 = Manually Entered
First R01 (or equivalent)	The date of the start of the earliest grant of type R01 or R01 Equivalent	Grant Start, Grant Type	Grants class	In the Award List, find the first (earliest) grant with the given type; save starting date here.	Date data
First R01 (or equivalent) award Type	The type of the earliest grant of type R01 or R01 Equivalent	Grant Type	Grants class	In the Award List, find the first (earliest) grant with the given type; save starting date here.	Date data
First R01 (or equivalent) source	Data source of award used in first_r01	Grant Source	Grants class	Copied from source of relevant grant.	See first_any_k_source.
First R01 (or equivalent) source type	Type of data source of award used in last_external_k	Grant Source	Grants class	Calculated from source of relevant grant.	0 = Computer Generated 1 = Self-Reported 2 = Manually Entered
"Ever" Variables					
Internal K	Yes/No question based on whether the scholar has ever had a grant of type Internal K.	Grant Type	Grants class	Yes if ever had any grant in the Award List categorized as type Internal K. Otherwise, No.	1 = Yes 0 = No
Individual K or Equiv	Yes/No question based on whether the scholar has ever had a grant	Grant Type	Grants class	Yes if ever had any grant in the Award List categorized as type Individual K or K Equivalent. Otherwise, No.	1 = Yes 0 = No

	of type Individual K.				
K12 KL2	Yes/No question based on whether the scholar has ever had a grant of type K12/KL2.	Grant Type	Grants class	Yes if ever had any grant in the Award List categorized as type K12/KL2. Otherwise, No.	1 = Yes 0 = No
R01 or Equiv	Yes/No question based on whether the scholar has ever had a grant of type R01 or R01 Equivalent.	Grant Type	Grants class	Yes if ever had any grant in the Award List categorized as type R01 or R01 Equivalent. Otherwise, No.	1 = Yes 0 = No
Last Any K to R01 or Equiv	Tells nature of K→R conversion where the K being measured is the last Internal K, K12/KL2, Individual K, or K equivalent (more common). Grouped into one of six bins, specified on right.	Grant Type, Grant Start	Grants class	Values are described in decoded language in the table cell to the right. Value is "1" if the last K is an Individual K or a K Equivalent and if the time between the last K and the first R01/R01-Equivalent is <= 5 years. Value is "1" if the last K is an Internal K or a K12/KL2 and if the time between the first K and the last R01/R01-Equivalent is <= 3 years. Value is "2" if the last K is an Individual K or a K Equivalent and if the time between the last K and the first R01/R01-Equivalent is > 5 years. Value is "2" if the last K is an Internal K or a K12/KL2 and if the time between the first K and	Groups of bins with encoding (1-4): 1. Converted K to R01-or-Equivalent in While on K 2. Converted K to R01-or-Equivalent Not While on K 3. Still on K, No R01-or-Equivalent 4. Not on K, No R01-or-Equivalent

(First) Futomol	Tells nature of	Cront Type Cront	Grants	the last R01/R01-Equivalent is > 3 years. Value is "3" if there is no R01/R01-Equivalent present in the list and if the last K is an Individual K or a K Equivalent and if the time between the last K and the present time is <= 5 years. Value is "3" if there is no R01/R01-Equivalent present in the list and if the last K is an Internal K or a K12/KL2 and if the time between the last K and the present time is <= 3 years. Value is "4" if there is no R01/R01-Equivalent present in the list and if the last K is an Individual K or a K Equivalent and if the time between the last K and the present time is > 5 years. Value is "4" if there is no R01/R01-Equivalent present in the list and if the last K is an Internal K or a K12/KL2 and if the list and if the last K is an Internal K or a K12/KL2 and if the time between the last K and the present time is > 3 years. Values are described in decoded	Groups of bins with
(First) External K to R01 or Equiv	K→R conversion where the K	Grant Type, Grant Start	class	language in the table cell to the right.	encoding (1-4): 1. Converted K to R01-or-
	being measured			Value is "1" if the first K is an	Equivalent in While on K
	is the first			Individual K or a K Equivalent	a. R follows K within
	Individual K or K Equivalent.			and if the time between the first K and the first R01/R01-	life of K award 2. Converted K to R01-or-
	Grouped into one			Equivalent is <= 5 years.	Equivalent Not While on
	of six bins,			Value is "2" if the first K is an	K
	specified on right.			Individual K or a K Equivalent	

				and if the time between the first K and the first R01/R01-Equivalent is > 5 years. Value is "3" if there is no R01/R01-Equivalent present in the list and if the first K is an Individual K or a K Equivalent and if the time between the first K and the present time is <= 5 years. Value is "4" if there is no R01/R01-Equivalent present in the list and if the first K is an Individual K or a K Equivalent and if the time between the first K and the present time is > 5 years.	 a. R follows K sometime after K award expires 3. Still on K, No R01-or-Equivalent a. K award is still b. There is no R yet awarded 4. Not on K, No R01-or-Equivalent a. K award is not active b. There is no R yet awarded
Last External K to R01 or Equiv	Tells nature of K→R conversion where the K being measured is the last Individual K or K equivalent (more common). Grouped into one of six bins, specified on right.	Grant Type, Grant Start	Grants	Values are described in decoded language in the table cell to the right. Value is "1" if the last K is an Individual K or a K Equivalent and if the time between the last K and the first R01/R01-Equivalent is <= 5 years. Value is "2" if the last K is an Individual K or a K Equivalent and if the time between the last K and the first R01/R01-Equivalent is > 5 years. Value is "3" if there is no R01/R01-Equivalent present in the list and if the last K is an Individual K or a K Equivalent and if the last K is an Individual K or a K Equivalent and if the time between the last K and the present time is <= 5 years.	Groups of bins with encoding (1-4): 1. Converted K to R01-or-Equivalent in While on K 2. Converted K to R01-or-Equivalent Not While on K 3. Still on K, No R01-or-Equivalent 4. Not on K, No R01-or-Equivalent

				Value is "4" if there is no R01/R01-Equivalent present in the list and if the last K is an Individual K or a K Equivalent and if the time between the last K and the present time is > 5 years.	
First Any K to R01 or Equiv	Tells nature of K→R conversion where the K being measured is the first Internal K, K12/KL2, Individual K, or K equivalent. Grouped into one of six bins, specified on right.	Grant Type, Grant Start	Grants class	Values are described in decoded language in the table cell to the right. Value is "1" if the first K is an Individual K or a K Equivalent and if the time between the first K and the first R01/R01-Equivalent is <= 5 years. Value is "1" if the first K is an Internal K or a K12/KL2 and if the time between the first K and the first R01/R01-Equivalent is <= 3 years. Value is "2" if the first K is an Individual K or a K Equivalent and if the time between the first K and the first R01/R01-Equivalent is > 5 years. Value is "2" if the first K is an Internal K or a K12/KL2 and if the time between the first K and the first R01/R01-Equivalent is > 3 years. Value is "3" if there is no R01/R01-Equivalent present in the list and if the first K is an Individual K or a K Equivalent and if the time between the first K and the present time is <= 5 years.	Groups of bins with encoding (1-4): 1. Converted K to R01-or-Equivalent in While on K 2. Converted K to R01-or-Equivalent Not While on K 3. Still on K, No R01-or-Equivalent 4. Not on K, No R01-or-Equivalent

				Value is "3" if there is no R01/R01-Equivalent present in the list and if the first K is an Internal K or a K12/KL2 and if the time between the first K and the present time is <= 3 years. Value is "4" if there is no R01/R01-Equivalent present in the list and if the first K is an Individual K or a K Equivalent and if the time between the first K and the present time is > 5 years. Value is "4" if there is no R01/R01-Equivalent present in the list and if the first K is an Internal K or a K12/KL2 and if the time between the first K and the present time is > 3 years.	
Year	The calendar year under inspection, from January 1 until December 31	Grant Start, Grant End	Summary Grants class	One year/form-instance exists for every year represented from the start time of grant 1 to the end time of the last grant in the Award List	Integer
Total Dollar	The total (direct + indirect) dollar amount for the given year	Grant Total Budget	Summary Grants class	For each grant in Award List, 1. Find all grants with same base award number. 2. Filter step 1's grants to include only the most-preferred source (from most-preferred to least preferred: modify, custom, coeus, exporter, reporter, followup [later surveys preferred], scholars, data, sheet2, new2017)	Integer

				 3. Calculate the fraction of each grant in the given calendar year (linearly). 4. Sum the total_budget-of-the-grant * fraction-in-the-calendar-year 	
Direct Dollar	The direct dollar amount for the given year	Grant Direct Budget	Summary Grants class	For each grant in Award List, 1. Find all grants with same base award number. 2. Filter step 1's grants to include only the most-preferred source (from most-preferred to least preferred: modify, custom, coeus, exporter, reporter, followup [later surveys preferred], scholars, data, sheet2, new2017) 3. Calculate the fraction of each grant in the given calendar year (linearly). 4. Sum the direct_budget-of-the-grant * fraction-in-the-calendar-year	Integer
Internal K or K12/KL2	The direct dollar amount for the given year for all grants of type Internal K or K12/KL2	Grant Direct Budget, Grant Type	Summary Grants class	Perform the calculation for the direct_dollar amount, but only for grants of type Internal K or K12/KL2	Integer
Individual-K/K- Equiv	The direct dollar amount for the given year for all grants of type Individual K or K Equivalent	Grant Direct Budget, Grant Type	Summary Grants class	Perform the calculation for the direct_dollar amount, but only for grants of type Individual K or K Equivalent	Integer

R01/R01-Equiv	The direct dollar amount for the given year for all grants of type R01 or R01 Equivalent	Grant Direct Budget, Grant Type	Summary Grants class	Perform the calculation for the direct_dollar amount, but only for grants of type R01 or R01 Equivalent	Integer
Federal	The direct dollar amount for the given year for all grants from a known Federal source	Grant Direct Sponsor Type, Grant Prime Sponsor Type, Grant Source	Summary Grants class	Perform the calculation for the direct_dollar amount, but only for grants designated Federal. If COEUS's either direct sponsor type or prime sponsor type as DOD, NASA, ED, NSF, Federal, DOE, NIH, or PHS, then Federal. If source is exporter or reporter, then Federal. (defined in Grant::isFederal)	Integer
Non-federal	The direct dollar amount for the given year for all grants from a non-Federal source	Grant Direct Sponsor Type, Grant Prime Sponsor Type, Grant Source	Summary Grants class	Perform the calculation for the direct_dollar amount, but only for grants NOT designated Federal (as shown in federal)	Integer
Demographic Inf	formation				
Citizenship and Citizenship (Source)	The current citizenship of the scholar	 Initial Survey Followup Survey Initial Import 	Scholar class	Copy variable from the first source with data	1 = U.Sborn citizen 2 = Acquired U.S. citizenship 3 = Non U.S. citizen with permanent residency 4 = Non U.S. citizen, temporary visa
Current Institution	The current institution of the scholar	 Manual input on the Identifiers form Initial Import Initial Survey 	Scholar class	Vanderbilt if specified so in the Initial Survey Meharry if specified so in the Initial Survey Else if specified in Initial Survey Other Institution field, copy from there	String

				Else fill with "Other"	
Current Division	The current division of the scholar	Followup Survey Initial Survey	Scholar class	Copy variable from the first source with data	String
Current Rank	The current academic rank of the scholar		Scholar class		1 = Research Fellow 2 = Clinical Fellow 3 = Instructor 4 = Research Assistant Professor 5 = Assistant Professor 6 = Associate Professor 7 = Professor 8 = Other
Current Appointment Start	The starting date of the current academic appointment in Current Rank		Scholar class		
Tenure Status	The tenure status of the scholar		Scholar class		
Degrees	The degrees that the scholar has received	 Override Followup Survey Initial Survey VFRS Spreadsheet data 	Scholar class	Copy variable from the first source with data	1 = MD only 2 = MD + PhD 3 = MD + other 4 = PhD 6 = Other
Gender and Gender (Source)	The gender of the scholar	 Override Initial Survey VFRS Initial Import Spreadsheet data 	Scholar class	Copy variable from the first source with data	1 = Female 2 = Male

Mentor and Mentor (Source)	The scholar's primary mentor	 Override Followup Survey Initial Survey VFRS Spreadsheet data 	Scholar class	Copy variable from the first source with data	String
Race/Ethnicity and Race (Source) and Ethnicity (Source)	The race and ethnicity of the scholar	 Override Initial Survey VFRS Initial Import Spreadsheet data 	Scholar class	For both race and ethnicity, from the first source with data, separately take data and combine them into this field's categories	1 =, White, non-Hispanic 2 = Black, non-Hispanic 3 = White, Hispanic 4 = Black, Hispanic 5 = Asian 6 = Other
Date of Birth and Date of Birth (Source)	The date of birth of the scholar	 Initial Survey VFRS Initial Import Spreadsheet data 	Scholar class	Copy variable from the first source with data	Date data
Primary Department and Primary Department Source	The primary affiliated department of the scholar	 Override Initial Survey VFRS Spreadsheet data 	Scholar	Copy variable from the first source with data	104300 = Anesthesiology [104300] 104250 = Biochemistry [104250] 120450 = Biological Sciences [120450] 104785 = Biomedical Informatics [104785] 104286 = Cancer Biology [104286] 104280 = Cell and Developmental Biology [104280] 104226 = Center for Human Genetics Research [104226] 120430 = Chemistry [120430] 104791 = Emergency Medicine/Administration [104791] 104625 = Health Policy [104625]

Speech Sciences [104782]	Т	1	1	
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Internal Medicine [104366]				
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Medicine [104353]				
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Medicine/Hematology				
Oncology [104379]				Oncology [104379]

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			Medicine/Nephrology
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			104386 =
			Medicine/Rheumatology
			[104386]
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			Neurology/Movement
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			[104415]
			104418 =
			Neurology/Oncology
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Gynecology [104425]
104450 = Ophthalmology
[104450]
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Rehabilitation [104475]
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Pediatrics/Adolescent
Medicine [104555]
104565 =
Pediatrics/Cardiology
[104565]
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Development [104570]
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Research Office [104568]
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Care Medicine [104578]
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Pediatrics/Emergency
Medicine [104582]
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Pediatrics/Endocrinology
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Pediatrics/Gastroenterology
[104585]
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Pediatrics/General
Pediatrics [104595]

Pediatrics/Genetics		 104500
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		and Rehabilitation [104795]
		104529 = Psychiatry/Adult
		Psychiatry [104529]
		104535 = Psychiatry/Child
& Adolescent Psychiatry		
[104535]		

[120660] 104675 = Oncology	Radiation
104675 = Oncology	Radiation
Oncology	
104650 =	[104675]
101030	Radiology and
Radiolog ⁻	ical Science
[104650]	
106052 =	School of Nursing
- Researc	h Faculty [106052]
104703 =	Section of Surgical
Science [104703]
SFS = Ser	vice Free Stipends
[SFS]	
126230 =	Special Education
[126230]	
104477 =	Sports Medicine
[104477]	
104705 =	Surgery [104705]
104714 =	Surgery/Liver
Transpla	nt [104714]
104760 =	Surgery/Pediatric
Surgery [[104760]
104709 =	Surgery/Surgical
Oncology	[104709]
	Surgery/Thoracic
Surgery [
	Surgery/Trauma
[104717]	-
	Urologic Surgery
[104775]	
	= Vanderbilt
	Center [104201]
	= Biostatistics
104267 =	
	tics/Cancer
Biostatist	tics (104267)

leaving Vanderbilt. If the data exist in the	Left Vanderbilt and Left Vanderbilt (Source)	The date when the scholar has left Vanderbilt	 Followup Surveys Initial Survey Spreadsheet data Override 	Scholar	For the surveys, look for an entry with Vanderbilt or VUMC as the institution. If found, look in that entry for an end-date. For the first end-date found, save this date as the date for	104202 = Center for Biomedical Ethics and Society (104202) 104790 = Emergency Medicine (104790) 104204 = Institute of Medicine and Public Health (104204) 120727 = Medicine, Health & Society (120727) Date data
					If the data exist in the	
spreadsheet or an override column, use that date.					spreadsheet or an override	

Proposals

At VUMC?	Whether	1.	Faculty Affairs?	Scholar	Admin. can manually input this	1 = Yes
	someone works	2.	Manual Input	class	information.	0 = No
	in their primary	3.	Followup Surveys		If that information does not	
	appointment at	4.	Initial Survey		exist, check the first affiliation	
	VUMC or not				on the survey, whether it is	
					Vanderbilt or another	
					institution.	
Destination	What institution	1.	Manual Input	Scholar	Admin. can manually input this	String
(Institution	the scholar works	2.	Followup Surveys	class	information.	
Name)	at if it is not	3.	Initial Survey		If that information does not	
	Vanderbilt				exist, check the first affiliation	
					on the survey; copy from most-	
					recent survey where this	
					variable is not Vanderbilt.	

Job Title	The job title this person currently holds, to the best public knowledge	 Manual Input Followup Surveys Initial Survey 	Scholar class	Admin. can manually input this information. If that information does not exist, check the first job title on the survey and copy. Need to add to surveys; should surveys be geared towards academic appointments? We might need to generalize these.	String
Date Left Vanderbilt	The date the scholar left Vanderbilt, if this information is known	 Faculty Affairs? Manual Input Followup Surveys Initial Survey 	Scholar class	Admin. can manually input this information. If that information does not exist, check the first end of the Vanderbilt appointment on a survey and copy.	Date data
Job Category	The type of position procured	1. Manual Input 2. Add to surveys?	Scholar class	Admin. has to manually input this information.	1 = Academia, still research- dominant (PI) 5 = Academia, still research- dominant (Staff) 2 = Academia, not research dominant 3 = Private practice 4 = Industry, federal, non- profit, or other – research dominant 6 = Industry, federal, non- profit, or other – not research dominant

Also, consider a definition of R01-Equivalence via the Activity Code (https://grants.nih.gov/grants/funding/ac search results.htm).