Authorship/DM/lab dynamics/RCR	Attitude/behavior/ conflict resolution/Understanding	Survey question	erica's thoughts on outcome	dena's thoughts on outcome	kevin's thoughts on outcome	
		Full preregistration is available at https://osf.io/pfxat				
		This document only gives the prespecified directional expectations				
		Items that are analyzed in the paper:				
RCR	Attitude	Have you changed your views about ethical research practices based on discussion within your la	up	up	up	
Authorship plan	Behavior	Does your lab have an established authorship plan governing the assignment and order of authors for manuscripts?	up	up	selection variable for selection model	
Data management	General understandi	Does your lab have a data management policy?	up	up	selection variable for selection model	
se						
RCR	Importance	How relevant to your area of work is learning about ethical research practices?	up	up		
RCR	Communication	To what extent do you agree that seeking others in your department to discuss ethical research practice is your responsibility as a scientist?	up	up		
		To what extent do you agree that seeking out others in your lab to discuss ethical research practices is your responsibility as a scientist?				Inadvertently left out of p
RCR	Communication	Do you have discussions with members of other labs regarding ethical research practices?	up	up		
RCR	Conflict resolution	If there was a disagreement about research practices, would lab members in your lab make reasonable points and try to make valid arguments?			Deliberation - up	
Lab dynamics	Communication	When discussing research with your lab, does everyone have a real opportunity to speak with no one inappropriately dominating the discussions?			Deliberation/respectful - up	
Lab dynamics	Communication	When discussing research with your lab, do lab members listen to one another respectfully and courteously?			Deliberation/respectful - up	
Lab dynamics	Communication	When discussing research with your lab, do other lab members seem to hear and understand your views?			Deliberation/respectful - up	
RCR	Behavior	How confident are you that your lab co-workers will use ethical research practices when conducting research?	up	up		
RCR	Conflict resolution	How often are there disagreements in your lab about research practices?	down	down		
Authorship plan	Conflict resolution	How often are there disagreements in your lab about authorship?	down	down		
Data management	Conflict resolution	How often are there disagreements in your lab about data management?	down	down		
cy						
Authorship plan	General understanding	Do you understand the rationale for having an authorship plan in your lab?	up	up		
Authorship plan	General understanding	Do you understand the importance of having an authorship plan?	up	up		
Authorship plan	General understanding	Do you understand the ethical implications of someone being an author on a paper?	up	up		
ıent Policy						
Data management	General understanding	How much do you understand the rationale for having a data management plan/policy?	up	up		
Data management	General understanding	Do you understand the importance of having a data management plan/policy?	up	up		
Data management	General understanding	Do you understand the ethical implications of data management?	up	up		
ials						

Data management	Attitude	How important to your lab is archiving records of earlier versions of datasets, manuscript drafts, and/or lab materials? - Datasets	up	up		
Data management	Attitude	How important to your lab is archiving records of earlier versions of datasets, manuscript drafts, and/or lab materials? - Manuscript drafts	up	up		
Data management	Attitude	How important to your lab is archiving records of earlier versions of datasets, manuscript drafts, and/or lab materials? - Lab materials	up	up		
Data management	Attitude	How worthwhile is it to maintain electronic copies of lab materials and methods?	up	up		
		Items that remain unanalyzed:				
Authorship plan	Attitude	To what extent do you agree with the authorship plan in your lab?	up	none	selection model	
Authorship plan	Attitude	To what extent do you feel your lab's authorship plan could be improved	none	none	selection model	
Authorship plan	Attitude	If you chose any response that indicates a need for improvement, please explain how you think the plan could be improved.	na	n/a		
Authorship plan	Behavior	Were you involved in the drafting of the authorship plan?	up: for this and other questions, up only if they had an authorship plan pre and post	up	selection model	
Authorship plan	Behavior	Have you seen the authorship plan put into practice?			selection model	
Authorship plan	Behavior	If yes, how exactly has it been put in to practice?	na			
Authorship plan	Behavior	Have you ever asked that the authorship order be reviewed based on the authorship plan?	up: post training, grad students may be more inclined to request an authorship discussion for a particular manuscript	up	selection model	
Authorship plan	Behavior	How exactly does your lab keep track of each individual's contributions to a collaborative lab project?	na: open ended response (although, we can always code these responses for things like complexity)			
Authorship plan	Behavior	How exactly does your lab keep track of individual contributions to a lab project?	na: see above			
Authorship plan	Conflict resolution	How comfortable or uncomfortable do you feel challenging the authorship plan in your lab?	up	up	selection model	not asked of PI
Authorship plan	Conflict resolution	How comfortable or uncomfortable do you feel if you are challenged on the authorship plan?	revisit	revisit	selection model	not asked of PI
Authorship plan	Conflict resolution	Does the authorship plan resolve authorship disagreements in your lab?	up	up	selection model	not asked if no disagreement
Authorship plan	General understanding	To what extent do you understand how your lab's authorship plan works in practice?	up	up	selection model	
Data management	Attitude	To what extent do you feel your lab;s data management plan/policy could be improved?	none	none		
Data management	Attitude	If you chose any response that indicates a need for improvement, please explain how you think the plan/policy could be improved	na	na		
Data management	Attitude	To what extent do you agree with the data management plan/policy in your lab?	none	none	selection model	
Data management	Behavior	Were you involved in the drafting of the data management plan/policy?	none: our training does not dictate that the lab members are involved in drafting this plan	up; if there's going to be a plan, I'd guess lab members would be involved	selection model	
Data management	Behavior	Do you know how the data management plan/policy works in practice?	up	up	selection model	
Data management	Behavior	How compelled do you feel to follow the data management plan/policy?	up	up	selection model	

Data management	Behavior	What is your personal data management policy?	na			
Data management	Behavior	Have you seen the data management plan/policy put into practice?	up	up	selection model	
Data management	Behavior	If yes, how exactly has it been put in to practice?				
Data management	Behavior	Is making data publicly available regarded as standard practice in your lab?				
Data management	Behavior	Does your lab have a system for maintaining records of individual contributions to a lab project?	up	up		
Data management	Behavior	Is making materials publicly available as a part of publication process regarded as standard practice in your lab?				
Data management	Conflict resolution	How often has the data management plan/policy resolved disagreements in your lab?	up	up	selection model	not asked if never disagreements
Data management	Conflict resolution	How comfortable or uncomfortable do you feel challenging the data management plan/policy?	up	up	selection model	
Data management	General understanding	To what extent do you understand how to implement the data management plan/policy in your own work?	up	up	selection model	
Data management - recording data	Behavior	Please indicate how you record data. Check all that apply: - Selected Choice				
Data management - recording data	Behavior	Please indicate how your lab typically records data. Check all that apply: - Selected Choice				
Data management - sharing data	Behavior	Please indicate how you and your lab typically share data with each other. Check all that apply: - Selected Choice				
Data management - storing data	Behavior	Please indicate how you store data. Check all that apply: - Selected Choice				
Data management - storing data	Behavior	Please indicate how your lab typically stores data. Check all that apply: - Selected Choice				
Data management - storing data	Behavior	My lab archives earlier versions of the following (check all that apply):				
Lab dynamics	Communication	When you're participating in discussions, do you go along with what the majority decides is best, even if it is not what you believe personally?			Persuadability - down	
Lab dynamics	Communication	When discussing research within your lab, do you prefer to remain neutral about complex research issues?			Need to evaluate down	
Lab dynamics	Communication	How much would you say your lab co-workers care about what you think regarding research projects in your lab?			not asked of PI - up	
Lab dynamics	Communication	Please indicate how your lab regularly communicates with one another (check all that apply): - Selected Choice				

Lab dynamics	Communication	In my experience, PIs treat undergraduate students, graduate students and post-docs in my lab fairly and respectfully.	This may be used as a moderator for creation of an authorship plan? The more the PI respects the lab members, the more likely they are to adhere to a fair authorship plan?			
Lab dynamics	General understanding	Do you enjoy working in your lab?	potentional mediator/moderator. Example: lab members who enjoy working in their lab and receive the training are more likely to participate in authorship/dm discussions, practices	potentional mediator/moderator. Example: lab members who enjoy working in their lab and receive the training are more likely to participate in authorship/dm discussions, practices		
Lab dynamics	General understanding	How would you rate your understanding of how your work fits with your lab's larger project(s)?	potentional mediator/moderator -- same as above	potentional mediator/moderator -- same as above	not asked of PI	
Lab dynamics	General understanding	Do you get to exercise your creative abilities while working in your lab?	potentional mediator/moderator -- same as above	potentional mediator/moderator -- same as above		
Lab dynamics	General understanding	Do you enjoy hearing about your peers' research projects?	potentional mediator/moderator -- same as above	potentional mediator/moderator -- same as above	not asked of PI	
Lab dynamics	General understanding	How much of the research in your lab is so complicated that you don't understanding what is going on?	potentional mediator/moderator -- same as above	potentional mediator/moderator -- same as above	Internal efficacy	not asked of PI
Lab dynamics	General understanding	How important is it to you to hold strong opinions about research projects in your lab?	potentional mediator/moderator -- same as above	potentional mediator/moderator -- same as above	Need to evaluate	
Personal demographics	Personal demographics	Please tell us your gender. - Selected Choice				
Personal demographics	Personal demographics	Please tell us your race/ethnicity. - Selected Choice				
Personal lab demographics	Personal lab demographics	How often does the research conducted in your lab call for specialized skills and knowledge that you don't fully understand?			internal efficacy - down	
Personal lab demographics	Personal lab demographics	What is your position within your lab? - Selected Choice	exploratory mediator	exploratory mediator		
Personal lab demographics	Personal lab demographics	What department are you a member of? - Selected Choice	exploratory mediator	exploratory mediator		
RCR	Attitude	How many things related to ethical best research practices would you say you have opinions about?	up	up	up	
RCR	Communication	How committed are faculty in your department to regular discussions with students about ethical research practices?	up: only if there are other faculty who have received training in the department	up, even if no other faculty since they may be more sensitized to recognizing these convos		
RCR	Communication	Participating in discussions regarding ethical research practice is part of my responsibility as a member of this lab	up	up		
RCR	Conflict resolution	How informed are you about challenges students encounter regarding ethical research practices?	up	up		
RCR	Conflict resolution	Would you take it personally when someone disagrees with your views on ethical best practices?			Conflict avoidance - down (less personally)	
RCR	Conflict resolution	In the lab, would you stand your ground even if everyone else disagrees with you?			Conflict avoidance - down (not stand ground)	

RCR	Conflict resolution	I am uncomfortable justifying my beliefs about ethical best practices to someone who disagrees with me.			Conflict avoidance -down (less uncomfortable)	
RCR	Conflict resolution	How comfortable or uncomfortable would you feel talking about your positions on ethical best research practices, even to someone who may disagree with you?			Conflict avoidance - up (more comfortable)	
RCR	Conflict resolution	How well would you be able to understand others' points of view in disagreements about ethical issues?			Conflict avoidance - up (more comfortable)	
RCR	Conflict resolution	Would disagreements about research practices make you feel uncomfortable?			Conflict avoidance - down (less uncomforable)	
RCR	Conflict resolution	How often does your research team schedule time to discuss ethical best research practices?	up	up		
RCR	understanding of research	As you understand it, what are the elements of research ethics/RCR (Responsible Conduct of Research) education?	none	none		
RCR	Importance	In your opinion, how important to undergraduates', graduate students' and post-docs' professional development is learning about ethical research best practice?	up depending on how many faculty received training from us	up depending on how many faculty received training from us		
RCR	Prior training	Have you had prior training in research ethics/RCR?	descriptors of participants at Time 1	descriptors of participants at Time 1		
RCR	Prior training	How was that training delivered? Please check all that apply. - Selected Choice	descriptors of participants at Time 1	descriptors of participants at Time 1		
RCR	Prior training	What was the total duration of that training?	descriptors of participants at Time 1	descriptors of participants at Time 1		
RCR	Prior training	How long ago was your most recent training?	descriptors of participants at Time 1	descriptors of participants at Time 1		
RCR	Training	In your opinion, how pro-active is your department currently in training undergraduate students, graduate students and post-docs in ethical research practices?	up depending on how many faculty received training from us	up depending on how many faculty received training from us		
RCR	Training	in ethical research practices for undergraduate students, graduate students and/or post-docs at your research institution?	up depending on how many faculty received training from us	up depending on how many faculty received training from us		
RCR	Training	To what extent does your supervisor or colleagues encourage you to seek out education and training in ethical best research practices?			up	