

## Exploring researchers' perspective on sex inclusive in vivo research Pre-workshop survey &

If you have any questions about this survey, please find a survey facilitator or contact Prof. Amrita Ahluwalia a.ahluwalia@qmul.ac.uk or Dr. Jonathan Ho jonathan.ho@qmul.ac.uk

\* Required

1.	By leaving your initials below, you acknowledge that you have had the
	opportunity to read the survey information sheet and consent form and
	have the research study explained. You have had the opportunity to ask
	questions about the research study, and your questions have been
	answered. You understand that if you are uncomfortable with any
	question, you may skip it.

Please make sure to write the same initials (minimum 3) below when filling out the pre and post surveys. *	

2.		s your current research use animal models to investigate your disease nterest? *
	$\bigcirc$	Yes
	$\bigcirc$	No
3.		s your research focus on a disease, or phenomena, that can occur in a sexes? *
	$\bigcirc$	Yes
	$\bigcirc$	Sometimes
	$\bigcirc$	No

4.		voften are you involved or can influence the planning of experiments living animals? *
	$\bigcirc$	Never
	$\bigcirc$	Rarely
	$\bigcirc$	Sometimes
	$\bigcirc$	Often
	$\bigcirc$	Always

5.	In th	ne past, how much statistical training have you received?
	$\bigcirc$	No training
	$\bigcirc$	Primarily informal/practical training (e.g., books, videos, discussion)
	$\bigcirc$	1-2 formal courses (e.g., Coursera, University class)
	$\bigcirc$	More than 2 courses or a statistical degree
6.		familiar are you with factorial experimental designs (please consider general knowledge and application of the technique)?
	$\bigcirc$	Not at all familiar
	$\bigcirc$	Not very familiar
	$\bigcirc$	Somewhat familiar
	$\bigcirc$	Familiar
	$\bigcirc$	Extremely familiar

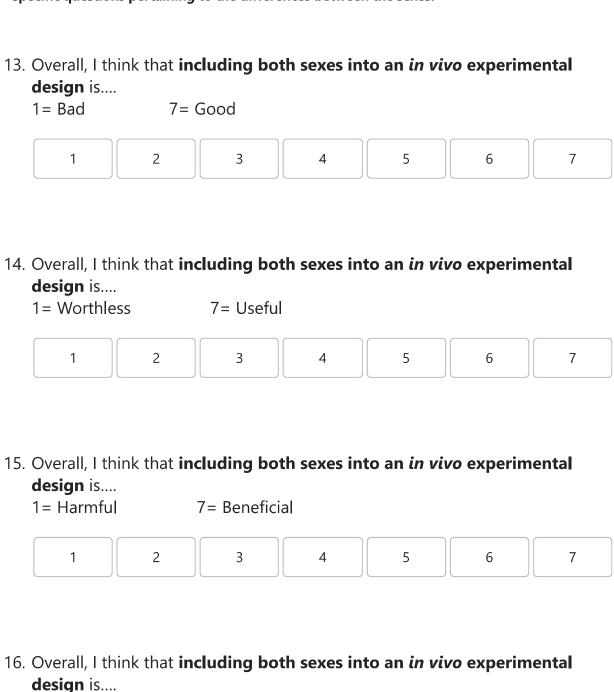
7.	sexe	king over the last 5 years, how often have you incorporated both s into your experiment while studying an intervention (for example a g treatment)?
	$\bigcirc$	Never: 0% of the time
	$\bigcirc$	Rarely: 1-25% of the time
	$\bigcirc$	Sometimes: 26-50% of the time
	$\bigcirc$	Often: 51-75% of the time
	$\bigcirc$	Almost always: 76-100% of the time

Over the next few questions, answer based on your current thinking about how incorporating sex into an in vivo experimental design may affect the overall design, data or statistical analysis resulting from that study.

8.	Do y size	you think inclusion of both sexes requires doubling a study's sample?
	$\bigcirc$	Yes
	$\bigcirc$	Sometimes
	$\bigcirc$	No
9.		you think sex influences data variability, therefore when you includen sexes, more animals are needed?
	$\bigcirc$	Yes
	$\bigcirc$	Sometimes
	$\bigcirc$	No

10.		en analyzing <i>in vivo</i> data collected from both sexes, do you think sex uld be included in the statistical model?
	$\bigcirc$	Yes
	$\bigcirc$	Sometimes
	$\bigcirc$	No
11.	ana con	en analyzing <i>in vivo</i> data collected from both sexes, do you think the lysis should be disaggregated (for example run a t-test comparing trol and intervention on the male data and then running a separate on the data from the females)?
	$\bigcirc$	Yes
	$\bigcirc$	Sometimes
	$\bigcirc$	No
12.	sho	en analyzing <i>in vivo</i> data, do you think data from the two sexes uld be pooled (combined) for the analysis (for example run a single t- comparing control and intervention group)?
	$\bigcirc$	Yes
	$\bigcirc$	Sometimes
	$\bigcirc$	No

Below we ask questions pertaining to <u>including both sexes in an *in vivo* experiment in addition to the intervention of interest.</u> This means that both sexes are planned into the experiment at the beginning stages. However, the purpose of the study does not have to include specific questions pertaining to the differences between the sexes.



7= The right thing to do

1= The wrong thing to do

	eel confident in my ability to <b>include both sexes into an <i>in vivo</i></b> perimental design
$\subset$	) Strongly disagree
$\subset$	) Disagree
	) Somewhat disagree
$\subset$	Neither agree nor disagree
$\subset$	) Somewhat agree
$\subset$	) Agree
$\subset$	) Strongly agree
	nether or not I <b>include both sexes in an <i>in vivo</i> experimental design</b> completely up to me
$\subset$	) Strongly disagree
	) Disagree
	) Somewhat disagree
	Neither agree nor disagree
	) Somewhat agree
$\subset$	) Agree
	)Strongly agree

19.	Ove	rall, using <b>both sexes in an <i>in viv</i>o experimental design</b> is
	$\bigcirc$	Extremely difficult
	$\bigcirc$	Moderately difficult
	$\bigcirc$	Slightly difficult
	$\bigcirc$	Neither easy nor difficult
	$\bigcirc$	Slightly easy
	$\bigcirc$	Moderately easy
	$\bigcirc$	Extremely easy
20.		ny professional environment, stakeholders I respect think I should ude both sexes into an <i>in vivo</i> experimental design
20.		
20.		ude both sexes into an <i>in vivo</i> experimental design
20.		ude both sexes into an <i>in vivo</i> experimental design  Strongly disagree
20.		Strongly disagree  Disagree
20.		Strongly disagree  Disagree  Somewhat disagree
20.		Strongly disagree  Disagree  Somewhat disagree  Neither agree nor disagree

21.		el professional pressure from my scientific community to <b>include</b> h sexes into an <i>in vivo</i> experimental design
	$\bigcirc$	Strongly disagree
	$\bigcirc$	Disagree
	$\bigcirc$	Somewhat disagree
	$\bigcirc$	Neither agree nor disagree
	$\bigcirc$	Somewhat agree
	$\bigcirc$	Agree
	$\bigcirc$	Strongly agree
22.		expected of me that I <b>include both sexes into an <i>in vivo</i> erimental design</b>
	$\bigcirc$	Strongly disagree
	$\bigcirc$	Disagree
	$\bigcirc$	Somewhat disagree
	$\bigcirc$	Neither agree nor disagree
	$\bigcirc$	Somewhat agree
	$\bigcirc$	Agree
	$\bigcirc$	Strongly agree

	pect to <b>include both sexes into an </b> <i>in vivo</i> <b>experimental design</b> in next in vivo experiment
$\bigcirc$	Strongly disagree
$\bigcirc$	Disagree
$\bigcirc$	Somewhat disagree
$\bigcirc$	Neither agree nor disagree
$\bigcirc$	Somewhat agree
$\bigcirc$	Agree
$\bigcirc$	Strongly agree
O	
	ant to <b>include both sexes into an <i>in vivo</i> experimental design</b> in my t <i>in vivo</i> experiment
	t <i>in vivo</i> experiment
	t <i>in vivo</i> experiment  Strongly disagree
	t <i>in vivo</i> experiment  Strongly disagree  Disagree
	t <i>in vivo</i> experiment  Strongly disagree  Disagree  Somewhat disagree
	t in vivo experiment  Strongly disagree  Disagree  Somewhat disagree  Neither agree nor disagree

25.	I intend to <b>include both sexes into an </b> <i>in vivo</i> <b>experimental design</b> in my next <i>in vivo</i> experiment			
	$\bigcirc$	Strongly disagree		
	$\bigcirc$	Disagree		
	$\bigcirc$	Somewhat disagree		
	$\bigcirc$	Neither agree nor disagree		
	$\bigcirc$	Somewhat agree		
	$\bigcirc$	Agree		
	$\bigcirc$	Strongly agree		

26.	futu	ct which of the following prevents you from <b>including both sexes</b> in re experiments in addition to the intervention of interest (choose <b>all</b> apply):
		Availability of sample/test material
		Complexity of experimental design
		Convention
		Cost
		Data analysis concerns
		Experiment would take longer
		Female animals are more variable
		Logistics
		Male animals are more likely to fight and may lead to premature euthanasia
		Model behavior may be different in the other sex
		Not relevant to the research question
		Sample size concerns
		Welfare issues
		Other

. Select which of the following you believe are the advantages, if any, to <b>including both sexes in an in vivo experimental design</b> ? (choose <b>all</b> that apply):		
	3Rs – Reduction	
	Animal welfare	
	Efficient use of all animals from breeding	
	Reproducibility	
	Translatability	
	Understanding sex differences	
	Other	
_	ou have any other thoughts or comments you would like to provide rding including both sexes in an in vivo experimental design?	
	inclus that	

29.	vvna	at is your age?		
	Num	ber must be between 18 ~ 110		
0.		ch of the following best describes your gender? (If you would prefer elf-describe, please do so in the free-text box.)		
	$\bigcirc$	Man		
	$\bigcirc$	Non-binary		
	$\bigcirc$	Woman		
	$\bigcirc$	Prefer not to say		
	$\bigcirc$	Other		
31.	How many years have you worked with animals in research?			

32.	32. What is the primary type of <i>in vivo</i> research in which you are involve several, chose the option you identify most with)?	
	$\bigcirc$	Basic biological investigation
	$\bigcirc$	Discovery (e.g., target identification)
	$\bigcirc$	Drug development/Lead optimization
	$\bigcirc$	Production quality and manufacturing
	$\bigcirc$	Research support (e.g., statisticians, ethical review board, or animal technician)
	$\bigcirc$	Safety pharmacology/preclinical safety/toxicology
	$\bigcirc$	Other
33.	Wha	at is your highest level of education?
	$\bigcirc$	Doctoral degree (PhD, veterinary degree, other)
	$\bigcirc$	Master's degree
	$\bigcirc$	Bachelor's degree (4 years at college/university)
	$\bigcirc$	Associate or vocational qualification (2 years at college/university)
	$\bigcirc$	High school diploma, GED, A level, or equivalent
	$\bigcirc$	Other

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