

Living under COVID-19 pandemic

- During this period we all desperately are looking forward to have from the scientific community "good news"
- **Social pressure** from the community to scientists is highest possible
- Time is very limited as thousands of people are passing away

- Probably this period could be considered as a period of "open communication" between scientists and the public concerning the biomedical research:
 - MEDIA (television, radio, newspapers, websites)
 - SOCIAL MEDIA (Facebook, Twitter, LinkedIn, Blogs)
 - INTERVIEWS with scientists
 - Hundreds of PRE-PRINTS uploaded everyday
 - Health & Science JOURNALISTS



Science journalism grows up y the only 1901s, an attilled part – governal access of the proposition and collection of the proposition of the of the propositio

Balancing use of animals and the scientific outcome by the public

 Public is invited to balance the use of animals with the scientific outcomes which may influence humans, animals or the environment



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- Does the public have the expertise/information to judge?
- How public can balance severity vs. scientific outcome?
- Based on which criteria? (common sense)

IN MOST OF THE PROJECTS THE RESULTS MAY TAKE YEARS TO GET IN OUR EVERYDAY LIFE

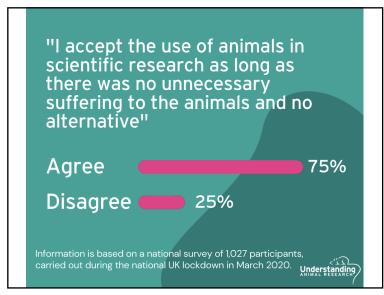


Survey report



Bella Williams, April 2020

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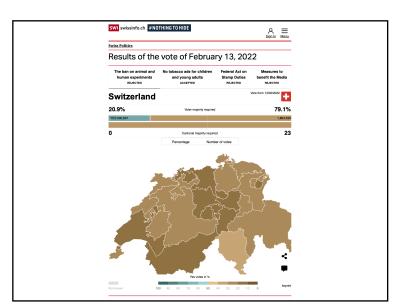


Findings part 4: changes to views about animal research

espondents were asked do you feel that your views around animal testing and animal research have changed in light of the COVID-19 outbreak? The responses were provided as short comments and manually coded to indicate a subjective change of views. Allowing that survey respondents tend to underreport changes in attitudes, a substantial change in views can be observed, with 11% of respondents indicating that their views around animal research have changed. In all cases their views have become more favourable, and many cite the severity of the situation. Some reported that they had not given the matter much thought until now.

"Yes I do [feel my views have changed]. Before I was very against animal testing. But after how many people have been infected and are predicted to be infected we've got to do something."

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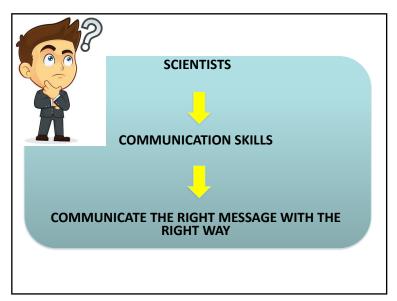


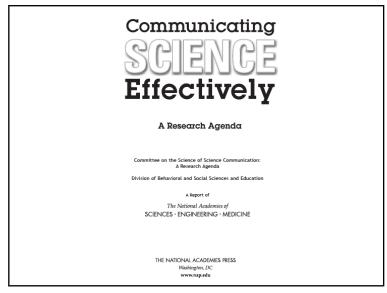
This existing situation should not be considered as an excuse to continue using animals

On the contrary

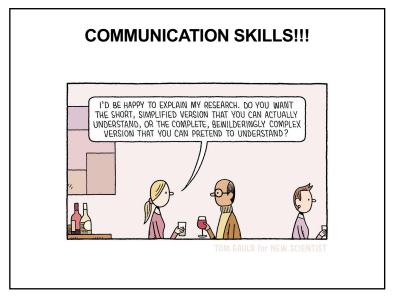
This situation demand further justification and transparency on the use of animals in research

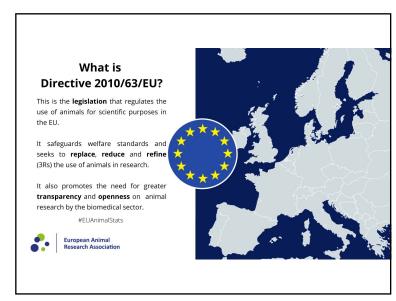
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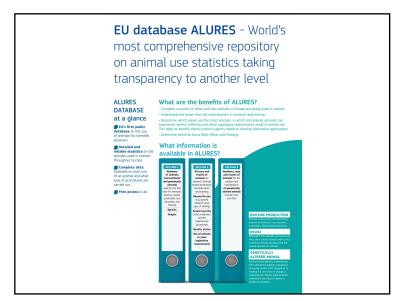


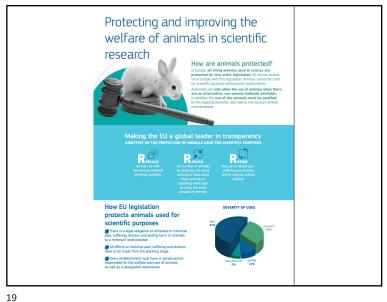


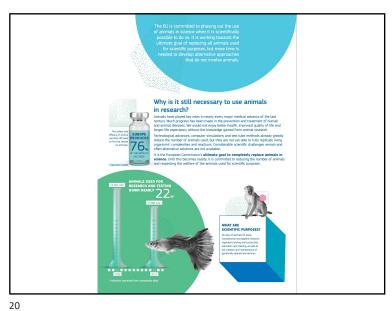


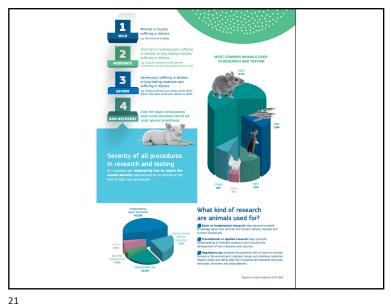


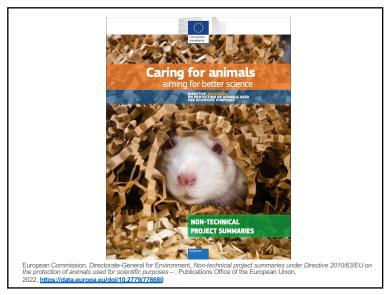












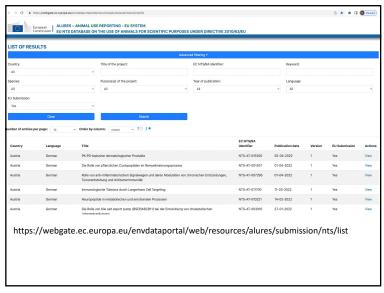
Non Technical Summary

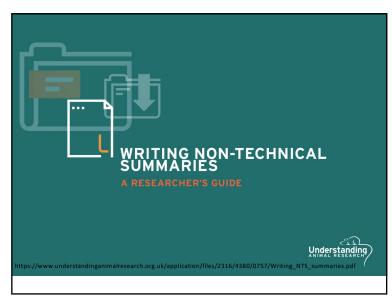
- Enhance openness and transparency regarding the use of animals in research
- Facilitate easy access and understanding of the various areas in which animals are used, between the public and nongovernmental organizations (NGOs)
- Encourage scientists to develop and improve their communication skills and better explain their research interests to the public
- Improve the quality of scientific information available to the public and prevent the dissemination of false information;
- Support the exchange of good practice on the 3Rs principle to replace or reduce the number of animals used or to improve experimental techniques;

Title of the project	Teaching and assessing competency in clinical skills involving cattle	Title of the project	Development of medical skills of medical and veterinary medical			
	relevant to veterinary degree programmes		students of University of Europia, and junior doctors, and doctors from University Hospital Europia for the improvement of the quality of their work			
Duration of project (in months)	12 months	Duration of project (in months)	60			
Keywords	Veterinary trainees' education; clinical skills practice; reproductive technology; cattle management;	Key Words (maximum of 5)1	Surgery; education; training; pigs			
Purpose of project (multiple choices possible)	Higher education Training for the acquisition, maintenance, or improvement of vocational skills	Purpose of project ² (multiple choices possible)	Higher education Training for the acquisition, maintenance, or improvement of vocational skills			
		Objectives and predicted	benefits of the project			
Objectives and predicted		Describe the objectives of	Provision of a theoretical and practical course for medical and veterinary			
Describe the objectives of		the project (for example,	medical personnel, during which the participants learn correct and safe			
the project (for example, addressing certain	veterinary students and nurses the best education possible, and make sure they become professionally competent individuals who can	addressing certain	actions during medical and veterinary medical manipulations and			
scientific unknowns, or	provide a good standard of care to animals when they qualify. The	scientific unknowns, or scientific or clinical needs).	surgical operations.			
scientific or clinical needs).	teaching and assessment of basic animal husbandry procedures, as well as practical clinical competencies, is an essential component of veterinary education and is a requirement of the national competent authority for the veterinary profession and international accrediting					
	organisations. The aim of this project is to train undergraduate veterinary medicine and veterinary nursing students in standard and					
	specialist veterinary practices in cattle. Training using live animals is					
	essential in order for students to gain competence in performing procedures that they will use throughout their veterinary careers.	What are the potential benefits likely to derive	Trainees that have completed the courses will have obtained irreplaceable skills and will have developed their current knowledge of,			
		from this project? Explain	and skills pertaining to, complex surgical techniques and manipulations.			
What are the potential	The ability to perform techniques such as taking blood samples and	how science could be advanced, or humans	Such knowledge and skills will significantly decrease the potential risk of a doctor or veterinary surgeon making a mistake, and will improve			
benefits likely to derive		animals or environment	a doctor or veterinary surgeon making a mistake, and will improve medical and veterinary medical care in general.			
from this project? Explain how science could be		may ultimately benefit	mode and recembly measure on general			
advanced, or humans.		from the project. Where				
animals or environment	also learn these important skills as part of this project, which they will	applicable, differentiate				
may ultimately benefit	eventually use in practice. Therefore, the benefit that will arise from this	between short-term benefits (within the				
from the project. Where	project is that it will improve the husbandry and clinical competencies	duration of the project)				
applicable, differentiate between short-term	of both veterinary medicine and veterinary nursing students so that they are better equipped for their careers upon qualification.	and long-term benefits				
between snort-term benefits (within the	are better equipped for their careers upon quasification.	(which may accrue after				
duration of the project)		the project is finished).				
and long-term benefits		Predicted harms In what procedures will	Animals will be anaesthetized throughout.			
(which may accrue after		the animals typically be	Animais will be anaestnetized throughout.			
the project is finished).		used (for example,				
Predicted harms In what procedures will the	Control of the second state of the second se	injections, surgical				
in what procedures will the animals typically be used		procedures)? Indicate the				
(for example, injections,		number and duration of these procedures.				
surgical procedures)?		What are the expected	N/A			
Indicate the number and	techniques. Calves will undergo restraint, placement of a tube through	impacts/adverse effects	TON.			
		- parin, autorise enects	·			

	procedures	will be perfor	rame time) ar rmed once p	d embryo er week fi	e. so that anir recovery. Typ or 6 weeks or	ically, the 12 weeks.	inactivity/reduced mobility, stress, abnormal behaviour, and the duration of those effects?							
	performed t	twice per yea	r. The majori	ty of the	rocedure will interventions hay take up to	are short-	What species and numbers of animals are	Species ⁴	Estimated total	Non-			Severe	
What are the expected impacts/adverse effects on the animals, for example pain, weight loss, inactivity/reduced mobility, stress, abnormal	Animals re- experience Cattle may a placement, repeated re- and embryo	ceiving inject slight pain of also experient and rectal in estraint. Female recovery may	tions or un or discomfort ce discomfort examination, ale cattle und y also experie	dergoing at the s during o as well lergoing noe brief	blood samp ite of needle ral dosing, fee as mild strer oestrus synch pain or discom	ling may insertion. ding tube s due to ronisation fort when	expected to be used? What are the expected severities and the numbers of animals in each severity category (per species)? What will happen to the animals loot alive at the	Estimated to be n		Estimated r		Estimated n	umber to	
duration of those effects?	collect embe		tances, these			o the cervix to end of the procedure? 5.4 habitat/husbandry system								
What species and numbers	Species	Estimated	Estim	ated num	bers per sev	erity	Please provide reasons for the planned fate of the animals after the	he under. At the end of the anaesthetic pigs will be euthanised.						
of animals are expected to		total	Non- rs recovery	Mild Moderat	Moderate	Severe	procedure.	_						
expected severities and the numbers of animals in each severity category (per species)?	Cattle	160	0	160	0	0	Application of the Three I 1. Replacement State which non-animal alternatives are available in this field and why they cannot be used for the	The participants in the courses, prior to starting their work all animals, will develop their skills using pre-prepar simulation devices. The study animals will be used to perfe by procedures and manipulations that cannot be learned cultures.					red computer orm only those	
What will happen to the animals kept alive at the end of the procedure?	Estimated number to be returned to habitat/husbandry system 150					purposes of the project. 2. Reduction Explain how the numbers of animals for this project were determined. Describe steps that have		ne number of study animals has bren calculated to make sure that as animals as possible are exposed to the procedures.						
		nd of the teach will live norm	hing period, a		s will return to	the herd,	been taken to reduce the number of animals to be used, and principles used to design studies. Where							
Application of the Three Rs							applicable, describe practices that will be used							
State which non-animal alternatives are available in this field and why they cannot be used for the purposes of the project.	procedures animals und However, s techniques to using liv possible. Ne	in live anim der their care a students will on non-anim we animals, in	als in order as qualified ve attend lectu al models, du n order to d rogression to	to event sterinarian res, wato immy anii evelop as	nt in common ually perform is and vetering the videos and mals and cada is much comp animals is ner	them on iry nurses. I practice wers prior etency as	throughout the project to minimise the number of animals used consistent with scientific objectives. Those practices may include e.g. pilot studies, computer modelling, sharing of tissue and							
Explain how the numbers	The number of animals selected for use is based on the number of veterinary and veterinary nursing students enrolled in the degree programmes at any one time. The minimum number of animals that will					e degree	3. Refinement	Animals will be under anaesthesia throughout the procedure and euthenised without recovery.						

were determined Describes the table been taken to the table taken	procedures without projectating the instinct, 'wetter will be used the work to work the product middle of indirectations and professional in the sales and the residue for that consider of works or expenses. **Advantage of the procedure of the	Give examples of the specific measure (e.g., portion of the specific measure (e.g., portion of the specific measure (e.g., portion of the specific measurement, training of the specific on the specific on the specific on the specific or th	N/A Deadline	Contains severe procedures	Uses pon- human primates	Other reaso
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NTTS STYLE: SUMMARISING FOR A LAY AUDIENCE If Has More Time, Vitwoold Have Written a Shorter Letter Blase Parel (through other attributed to Mara Twent) Summarising complex and bechnical information in by terms of the commentation of the commen





CONCLUSIONS

- The public has to know about animal research
- It is up to scientists and everyone who is involved on LAS to provide information
- Information has to be objective
- Education on communication skills is necessary
- The aim is to promote the beneficial character of our research and our Responsibility – Not making campaign for animal research

