



Contraceptive Research

Perspectives on Laboratory and Field Research Considerations

Moderator: Cheryl Asa, PhD

Panel: Linda Rhodes, VMD, PhD
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Amy Fischer, PhD
Andrew Rowan, PhD



Laboratory research in cats



Lindner Center for Conservation and Research of
Endangered Wildlife
Cincinnati Zoo & Botanical Garden

Lindsey Vansandt, DVM, PhD
Theriogenologist



Our research

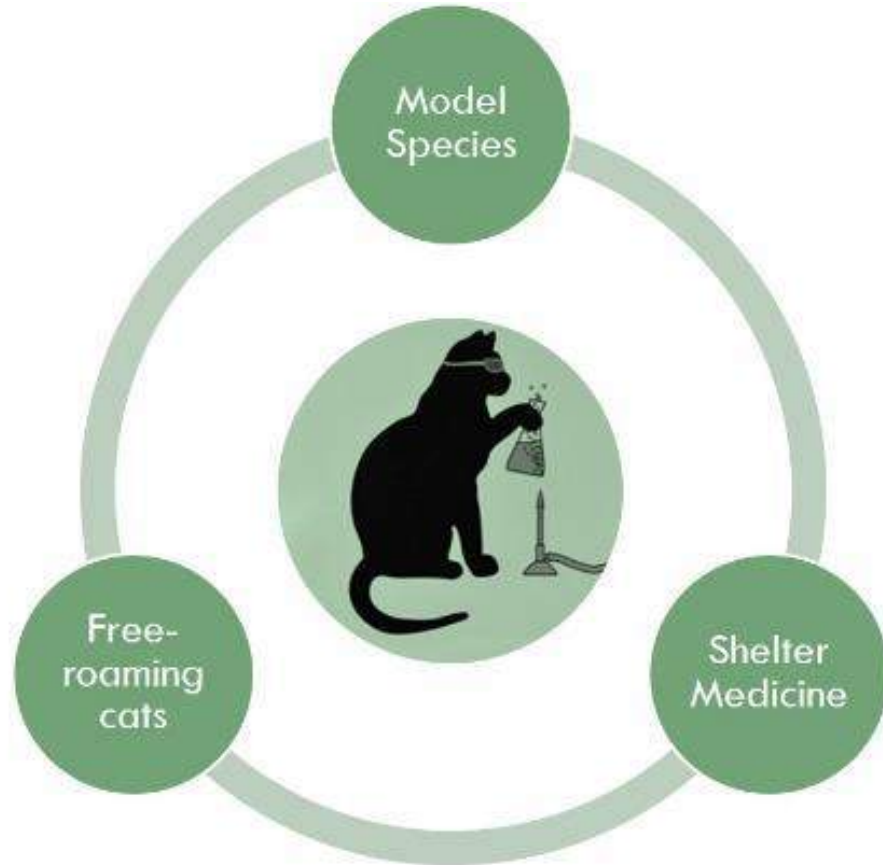
THE LINDNER CENTER FOR CONSERVATION AND RESEARCH OF ENDANGERED WILDLIFE



6TH INTERNATIONAL SYMPOSIUM
ON Non-Surgical Contraceptive
Methods of Pet Population Control

ACC & D
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Our research



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Our cats | housing



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Our cats | housing



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Our cats | medical care



Our cats | medical care



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Our cats | socialization



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Our cats in their forever homes!



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USDA-registered research facility



United States Department of Agriculture
Animal and Plant Health Inspection Service

- Ensure the humane treatment of animals covered by the Animal Welfare Act
- Facilities that use animals for research, teaching, testing, or experimentation
- Annual review of the premises, records, husbandry practices, program of veterinary care, and animal handling procedures

Institutional Animal Care and Use Committee

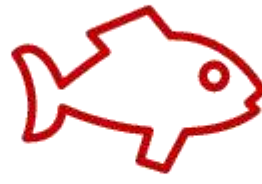
- Reviews research protocols
- Conducts evaluations of the institution's animal care and use

The 3 R's of Animal Research



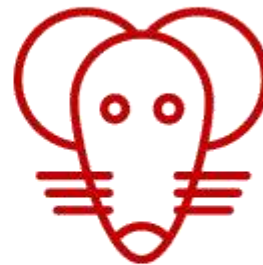
Replace

the use of animals
whenever possible



Reduce

the number of animals
needed to a minimum



Refine

tests to cause
animals the least
amount of distress

Institutional Biosafety Committee

- Reviews safety aspects of research involving recombinant or synthetic nucleic acid
 - Potential risk to environment and public health
- Roles
 - Provide technical advice on safety procedures
 - Periodic inspection of labs
 - Developing emergency plans

Challenges

- Cats are not big mice
- Cats are not little dogs
- Unique reproductive physiology
- Adoption considerations following gene therapy

FDA's stance on GE animals

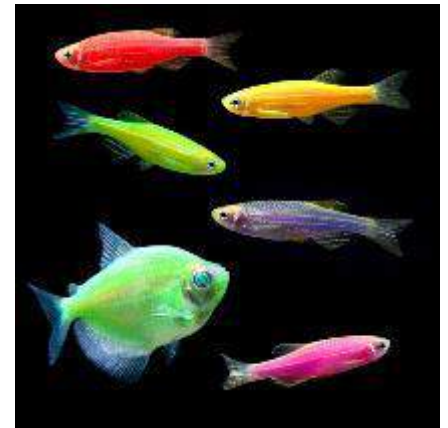
For the purpose of this guidance, FDA defines “genetically engineered (GE) animals” as those animals modified by rDNA techniques, including the entire lineage of animals that contain the modification. The term GE animal can refer to both animals with heritable rDNA constructs and animals with non-heritable rDNA constructs (e.g., those modifications intended to be used as gene therapy). Although much of this guidance will be relevant to non-heritable rDNA constructs, and FDA intends to regulate non-heritable constructs in much the same way as described in this guidance for heritable constructs, this guidance only pertains to GE animals containing heritable rDNA constructs. We may issue a separate guidance on the regulation of GE animals bearing non-heritable constructs to discuss when those constructs would be under FDA jurisdiction and the kinds of information that would

FDA's stance on GE animals

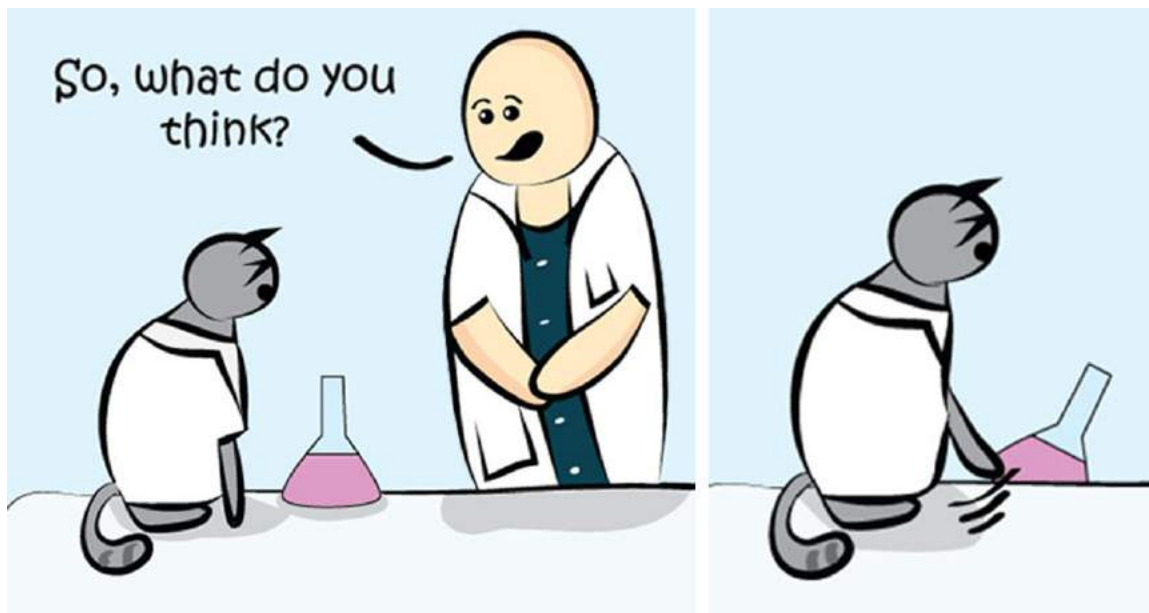
Statement Regarding Glofish

There has been much media attention recently about the marketing of "Glofish." On December 9, 2003, FDA issued the following statement:

Because tropical aquarium fish are not used for food purposes, they pose no threat to the food supply. There is no evidence that these genetically engineered zebra danio fish pose any more threat to the environment than their unmodified counterparts which have long been widely sold in the United States. In the absence of a clear risk to the public health, the FDA finds no reason to regulate these particular fish.



QUESTIONS?



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