

A photograph of a brown and black dog sleeping peacefully against a brick wall. The dog's head is resting on the ground, and its eyes are closed. The brick wall is made of reddish-brown bricks with some mortar visible. The ground is dark and has some scattered leaves and debris.

Tarshis Foundation

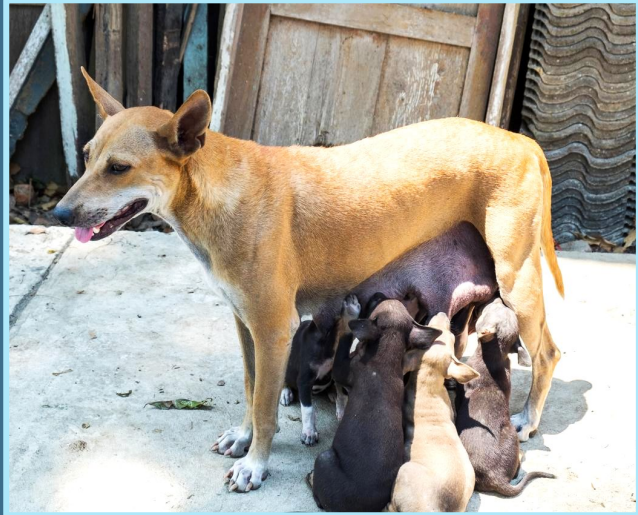
A 501(c)(3) Research Organization | Overview

Leveraging biotechnology to
solve animal overpopulation

The Tarshis Foundation Mission

The Tarshis Foundation is a 501(c)(3) public charity that believes all animals deserve to be treated humanely and live free from suffering.

That's why we are passionately advancing animal welfare through groundbreaking contraceptive solutions that ethically and effectively reduce animal overpopulation with care and respect.



This is a multi-billion animal crisis

Estimating the total number of feral animals around the worldwide that are at risk of culling is complex because it includes a variety of species across different ecosystems. Rough counts for key species include:



CATS:
600+ million globally.



DOGS:
200–300 million globally.



RABBITS:
200 million in Australia alone



HOGS / BOAR:
100+ million globally



HORSES:
1-2 million
worldwide

Putting an End to Inhumane Population Control

Stray dogs, cats, rats, wild pigs, rabbit, deer, wolves, and even wild horses are considered pests in many parts of the world, including across the U.S.A.

Individuals, state, city, and federal land-management groups typically resort to inhumane methods to address animal overpopulation, including poisoning, trapping, aerial shooting, and hunting.

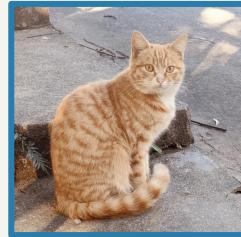
These harsh tactics are often ineffective in achieving meaningful population control.

While spay and neuter programs offer a more humane alternative, they are too costly, impractical and inaccessible for wild animal populations.



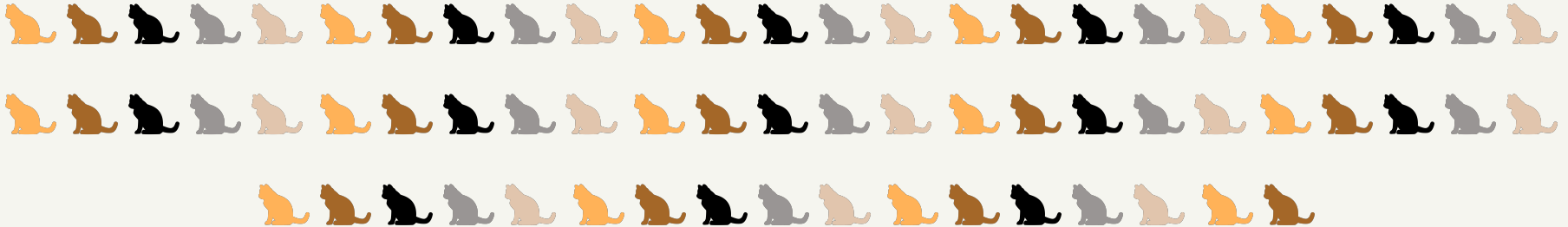
Exponential population growth underscores the urgency

Just ONE feral cat can produce 20,000 DESCENDENTS in a decade




This stray cat can have
67 KITTENS

(3 litters/year) × (6 kittens/litter) × (5 years); 75% survival



*Each of those kittens that survives on the street
can have 67 kittens of its own, and on, and on...*

Immunocontraception: An Unmet Need & Our Solution



The Tarshis Foundation is pioneering animal vaccines that provide **permanent contraception** without the need for surgery, offering a truly scalable solution to addressing animal overpopulation.

The Future is Already Here: Immunocontraception

Immunocontraception has the potential to be a low-cost solution for both wild and companion animals.



How immunocontraception works:

- Uses the body's immune system to block fertility
- Antigens associated with reproductive tissues are injected and cause an immune response against the animal's reproductive system, preventing pregnancy
- Follows a process used by familiar vaccines against bacterial, viral, and toxic agents



Other immunocontraception solutions are already available and being used, but have their limitations:

- Current options require direct human interaction with each animal for initial vaccine injection.
- Current options also require boosters; so not just one interaction, but multiple human interactions with each animal.
- Current options are generally limited to deer and wild horses only.

Our Approach: Single-Shot Sterilization

Unlike other options on the market today, we have developed a **new vaccine** that will sterilize intended animals **without the need for surgery, boosters or veterinarian intervention.**

- Created for wild boar with vaccines in development for dogs, cats, rats and other at-risk animal populations
- No harm to the injected animal
- No surgery or hospitalization required
- No veterinarians required to administer
- No boosters or repeat interactions with animals required after initial injection
- Targeting >80% sterilization effective after just one injection

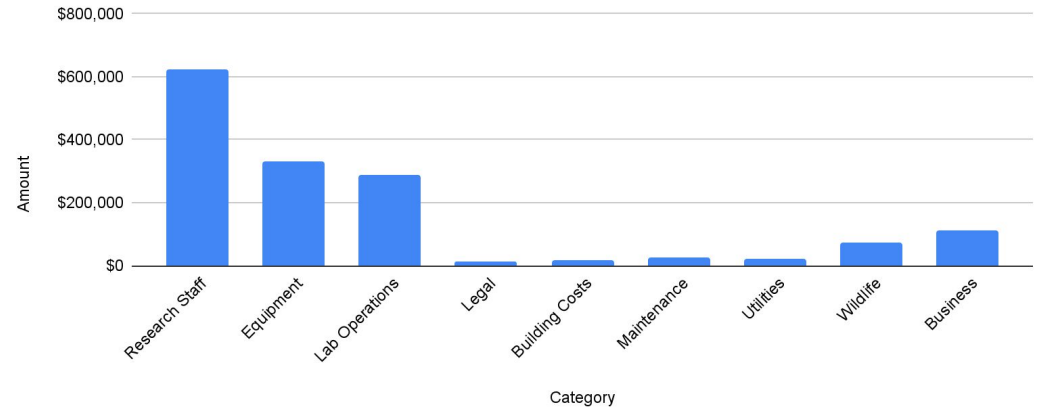
Making our solution **truly scalable** for humanely controlling stray and wild animal populations and providing high density urban populations with a low cost alternative to surgery.



Vaccine Costs & Our Funding Needs

- **\$1.5M has been spent to date to develop our first two vaccines**
- **An additional \$1.2M is needed for regulatory approval of our current vaccines and to initiate development on our next set of vaccines for dogs and cats**
- **All donations are tax deductible**

2022-2024 Foundation Expenses



501(c)(3) Tax deductible donations will be used for:

RESEARCH & DEVELOPMENT (60%)

- Additional development for current vaccine candidates
- Development for canine contraception vaccine

FIELD STUDIES (20%)

- Initial efficacy studies
- Full scale safety testing

REGULATORY & IP (20%)

- Convene scientific expert panels
- Initiate USDA permit process
- File patent applications



**We'd love to share more
about our work with you.**

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