

600 MILLION STRAY DOGS NEED YOU

Developing Food to Spay and Neuter - In One Serving - Without Surgery *The Cure for Animal Overpopulation*

Dear XXXX

We want to thank you for your support and wish you the very happiest of holidays -- and provide you with this update and overview of our work to date.

Our research and development has been a long process, the price we are willing to pay to meet our goal of finding: A permanent solution to the global problem of dog and cat overpopulation, suffering and homelessness.

If you are new to 600, we want to welcome you and encourage you to share this report with your friends.

Spay and Neuter Cookie Overview and Update

Our mission is to significantly reduce animal suffering by developing safe, non-profit, permanent lasting one-dose birth control food for stray dogs and cats, by modifying known ingredients such as calcium chloride, zinc, vinylcyclohexene and others so that they (in a single dose) will safely sterilize a stray, without surgery.

The first birth control food we are developing are the Spay and Neuter Cookies. They are being designed to be species and gender specific, and we expect the first Cookie that will be completed will be for female dogs.

Our Pilot Pups: When we rescue a stray, in addition to caring for her or him, we also feed her or him a single trial Cookie. Once a rescued stray has eaten a single trial Cookie, she or he becomes an official Pilot Pup. We also cover the

associated costs (veterinary care, food, housing, transportation, adoption -- and we add a hefty dose of love and affection).

Trial Cookies: Each trial Cookie contains a combination of key ingredients and trial formulations -- often as many as 15 or more variables go into a single Cookie (such as the varying temperatures at which they are prepared and the length of time they are heated), all of which we are evaluating.

At this stage of development, each trial formulation (trial Cookie) must be made by one or more scientists and made by hand one at a time. The work is labor-intensive and each trial formulation is unique and can cost thousands of dollars and take months to prepare -- and many formulations need to be evaluated.

Once the final formulation is completed, our goal is to be able to produce it in bulk for under \$5 per Cookie.

In our work, the welfare of the Pilot Pup comes first, before the science. We take precautions and go out of our way to ensure that each trial Cookie is as safe as possible, based on using ingredients and amounts that we already know to be safe.

For the safety of the Pilot Pup, to study variations in formulas, we only increase key ingredients by very small, controlled amounts, one tiny step at a time.

This is a big reason why it is taking so long to perfect our formulas. (In contrast, a for-profit drug company would not typically follow our one tiny step at a time approach; instead they would increase the dose as high as possible and as fast as possible, to cut costs.)

Some of us humans at 600 have eaten trial Cookies ourselves, myself included. Thus far there have been no negative side effects for animals or people. We suspect a key reason for the lack of negative side effects is that the Cookie is

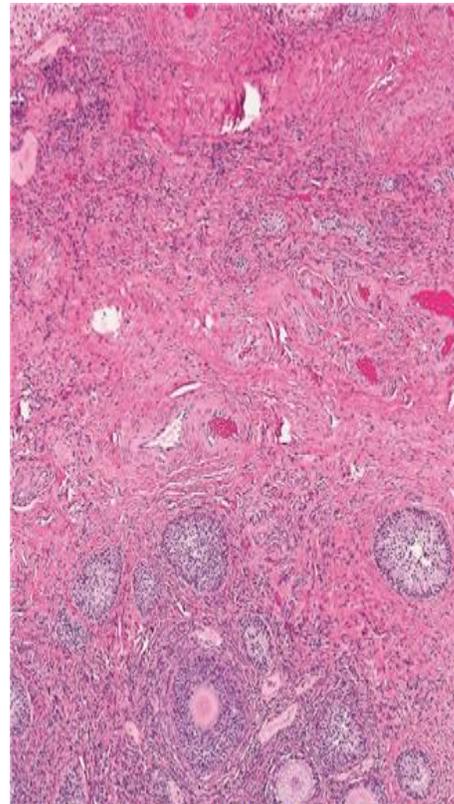
designed as a rare “only one dose over a lifetime” product, unlike traditional birth control products that are ingested daily.

Evidence also shows, thus far, that eating multiple doses (of the ingredients of the Cookies) does not harm the animal.

After the Pilot Pup eats the single trial Cookie, the Pup usually stays at the veterinary clinic for a few days to ensure that he or she is in good health. As soon as they get the green light from the veterinarian, they go home to their foster or permanent home. (If a home is not readily available, the Pup stays at the veterinary clinic or in a doggy day care center until a home is found.)

Approximately one month after eating the trial Cookie, the Pilot Pup comes back to the veterinary clinic, the veterinarian performs a spay or neuter surgery, and the Pup goes home again.

In a standard spay or neuter surgery, the veterinarian discards any tissue that is removed, such as the ovaries or testes. In our case, the veterinarians keep these now-treated tissues, and we provide them to other specialists to histologically process them (physically, chemically and digitally) for microscopic examination.



CONTROL ovary. A normal, untreated ovary from a rescued Pilot Pup who has not eaten a trial Cookie.

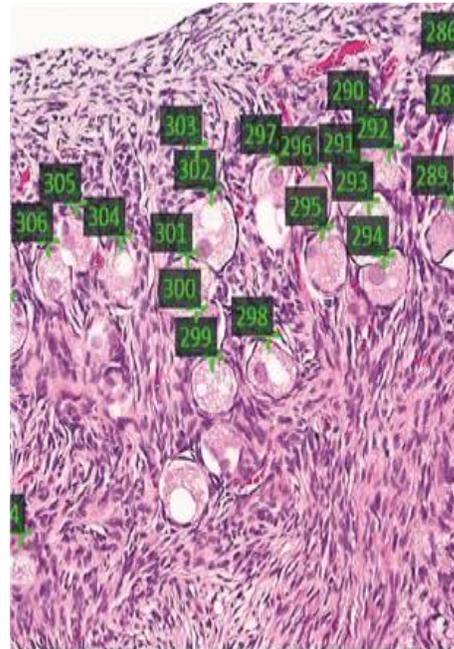
Once the slides are digitized, we have them microscopically examined by other specialists. This examination is a painstaking process, and it allows us to determine if the Pilot Pup is sterile as a result of eating the single trial Cookie. This in turn allows us to learn if the trial formulation worked. How do we know if the Cookie worked?

It's a long and important answer.

These are the basics of what we refer to as *the count*, our nickname for the percentage of various types of ovarian reproductive follicles that are impaired.

The more follicles that are impaired (the higher the count) the better, and the closer the dog is to being infertile. For example, a high count occurs naturally through aging, in humans and dogs -- which is why elderly humans and dogs naturally become infertile.

Our scientists review, analyze and quantify these follicles under a microscope, and one of the things we're trying to do is cause as many of these follicles as possible to become impaired -- without harming the animal, of course.



TREATED ovary from a rescued Pilot Pup who has eaten a single trial Cookie. Its microscopic effects are analyzed to determine how well the Cookie worked.

Our scientists then provide us with a report on each tissue, including the percentage of impaired follicles. A count of 20% means 20% of a certain type of follicle were found to be impaired.

Again, the higher the count the better, and the closer the dog is to being infertile. Conducting accurate counts is not easy, and we send the same digital slides to various specialists in order to secure second and third opinions.

Thus far, three of our best cumulative counts (the counts for all follicle types found to be impaired, combined) have been 41%, 45% and 69%. In short, these are surprisingly high numbers and good news for the animals.

Some additional good news: Three of our best individual counts (the counts for individual types of follicles) are higher than the cumulative counts. The best news is that each of these results have come from their own single trial Cookie formulation -- produced on a minuscule budget, with scientists working on our behalf in their spare time.

(Our entire operating budget, including our research and development, for this year is expected to be approximately \$270,000.)

What is the magic number -- the number that produces infertility?

According to the scientific community, the answer is unknown. At this time the answer is not clear when it comes to dogs, cats, or humans. What is known is that in humans, for example, it is common for an adult female in her sixties to be infertile yet still have a considerable number of normal follicles.

This is good news for dogs and cats, because it means that if a human female can be sterile even though not all of her follicles are impaired (she has less

than a 100% count), the same can be true for dogs and cats, who have reproductive systems very similar to humans.

Our ability, going forward, to reliably produce a high yet less than 100% count should be much easier than producing a 100% count -- all of which is good for the animals.

When will we discover the winning formula and how much will it cost?

As with most scientific endeavors, no one can answer this question with certainty – just as no one can predict the future with certainty. A team of scientists formulated projections for the time and cost that would be required to complete the work, including the studies needed to submit the data to the FDA and initiate the FDA approval process so that the product can be used in the U.S.

They reached the following conclusion: With a budget of \$3 million per year for 3 years, the Cookie could be developed within those 3 years, including the studies needed to initiate the FDA approval process. These funds would go toward hiring scientists, allowing them to devote themselves full-time to the project.

As you know, we are not waiting for the \$3 million per year funding to arrive. Our plan is to continue our research and development to find the winning formula -- without applying for FDA approval at this time.

Instead, our work is being performed at a grassroots level: Scientists are retained individually and paid on a limited hourly basis, and much is done outside of the U.S.

Instead of waiting for FDA-level funding, we intend to continue at the grassroots level, find the winning formula -- and put it to work in field trials in parts of the world where the need is the greatest and where the suffering is the most severe.

Despite the obstacles, we are pushing forward to make the Spay and Neuter Cookie a reality.

Support: Our work survives completely on donations and we must depend on our generous donors. We appreciate each and every dollar donated, and we want to assure you the money is being spent to ease the suffering of animals.

If you're new to 600, we invite you to become part of this life-saving project ... if each of us gives a little, we can prevent the needless suffering of many.

I'd Like to Contribute

Thank you very much for your past and future support. Sincerely,

A handwritten signature in blue ink that reads "Alex Pacheco". The signature is fluid and cursive, with the first letters of "Alex" and "Pacheco" being capitalized and prominent.

Alex Pacheco

600 Million Stray Dogs Need You, Founder

Animal Rights Hall of Fame

Adopt-A-Pet, Co-Founder

12/22/2018

PETA, Co-Founder and Chairman (1980-2000)
Sea Shepherd, *Crew Member of the Year*
Peace Abbey, *Courage of Conscience Award*



P.S.If someone were to win the lottery and provide the tax-deductible \$3 million per year funding themselves, the Cookie could also be named after them!

600 Million Stray Dogs Need You

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www.600MillionDogs.org

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From: Alex Pacheco at 600 Million Dogs <Alex@600MillionDogs.org>

Sent: Saturday, December 22, 2018 2:00 PM