

CREATING FUTURE PATHWAYS: NOW!

Partnering to Expedite Development of Non-Surgical Sterilants for Dogs and Cats

Purpose

The purpose of this session was to answer questions and create enthusiasm, ideas, and commitment for action. The Knowledge Café on Friday night and sessions on Saturday tried to capture what various stakeholders need to advance the development of non-surgical sterilants. “Creating Future Pathways,” a half-day session on Sunday, strove to get people networked on initiatives to meet some of those needs, as well as advance the newly presented ACC&D Agenda for Action. About half of the 125 attendees remained for this last session.

By this time, there was some growing consensus around what needs to be done and areas of interest. The morning started with a review of ACC&D’s Agenda for Action, an open floor for questions about that agenda, and requests for thoughts and comments on how to move these objectives forward. Write-ups from the Knowledge Café were also distributed for reference. After that, Sunday’s session was structured to give people work periods to put together plans of action, first through individual action planning, and then through collaborations. Small group work and larger group reporting out was alternated, in what most agreed was a very effective, if time-limited, opportunity.

Areas of Participant Action

Attendees were asked to select one of six groups to join for brainstorming. Based on the ACC&D worksheet (see “Ideas or Suggestions” below) on areas for support and participant input, groups were established to address the following interest areas:

- Research Initiatives
- Raising Awareness (Spreading the Word)
- Raising Funds
- Understanding Pet Population Management
- Identification (of Non-surgically Sterilized Pets)
- Legislation, Government, Public Health

Collaborative Action Plans

Working in breakout groups, attendees were asked to discuss and record answers to these questions: “What are the next steps we need to take? What can my organization or I do to help move the goals forward?” We returned to the large group session, and individuals shared key actions they identified. Next, attendees were asked to join an action they are most committed to working on and to discuss how collaborative work can help. We gathered again in a large group session, with additional sharing of collaborative ideas.

Sunday, November 12, 2006

Outcomes

Worksheets were handed in to record personal action plan commitments and collaborative ideas/work groups. This write-up was provided to attendees in early December, with input, revisions, additions and a lead contact for collaborations requested within three weeks. The results are below, starting on page 4.

Next Steps

ACC&D staff and board will be in contact with attendees and collaboration leads to see how we can support your initiatives. In addition, we will be determining priority for follow-up or ACC&D involvement based on ACC&D's Agenda for Action, priorities and capacities at this time.

Ideas or Suggestions for Support of and Collaboration with ACC&D

Research Initiatives

- Focus on development of technologies aimed at ACC&D priorities

Raising Awareness

- Story in newsletters and magazines
- Click-through on e-newsletters
- Link from website
- Promotion of petition
- Joint promotional campaigns or PSAs
- Exposure via booth or speaking engagements at relevant conferences
- Sign on with a letter of support (templates available) with affiliation promoted through both organizations



Raising Funds, Capital or Donated Services

- Key partner level financial support for select organizations and individuals
- Individual or organizational donation and membership
- Joint fundraising
- Program related investment from nonprofit endowment or assets
- Joint or facilitated investment in directed technologies
- Select donor introductions to those with particular interest in scientific advances
- Connecting to local entrepreneurs with interest in investing for social welfare
- Loaned executive, administrator or contract agencies (accounting, legal, marketing, PR, advertising agency)
- Pharmaceutical personnel sabbatical for drug development
- Support services allocation: graphics, website, database, legal counsel
- Office space

Sunday, November 12, 2006

Understanding the Market

- Shared data for increasing knowledge for greater good
- Support of or joint research projects on consumer and veterinary attitudes, desired product attributes
- Research data on target audience size, demographics, psychographics
- Research data on market, number of target animal populations
- Research to better understand effective deployment of sterilization programs
- Collaboration on field trials of products in development



Other Ideas?

Personal Action Plans: RESEARCH

Individual	Organization	Email	Action Plan	Resources Needed or Comments
Keith Stormo	Amplicon	keith@genomex.com	Our lab will make DNA sequencing and MALDI-TOF-MS services available to validate DNA or protein constructs for a reduced cost for ACC&D-sponsored projects.	Minimal funds
Sena Fitzpatrick	McKinley Cty. Humane Society	sfitz@wildblue.net	Work to get funding to expand our Chemspay pilot project.	List/search for possible donors/funding sources to support.
Dr. Clint Balok	Senestech	clintonbalok@yahoo.com	Design studies to further demonstrate product efficacy and support research and development. Scientific and applied. Respond to RFP.	Grant writers/\$\$\$
Dr. Cristine Gobello	Natl. U of La Plata	cgobello@netverk.com.ar	Go on working on canine contraception.	Funding
Dr. Enid Styles	Vets without Borders: Canada	estiles90@hotmail.com	Develop and initiate research on end-user concerns such as (1) population control (effective tools?) and (2) physiological and behavioral effects of non-surgical vs. surgical sterilization.	Products for research; +/- funds for research but can collaborate with universities and orgs such as Vets without Borders.
P.J. Devine	Senestech	patrick.devine@iaf.inrs.ca	Basic research: (1) VCD – Senestech; (2) monitoring success through new assays.	\$\$ and students
Dr. Julie Levy	U of FL, Coll. of Vet. Med.	levyj@mail.vetmed.ufl.edu	Respond to RFP for research.	\$ Details for desired research focus
Dr. Corri Waitt	University of Oxford	corri.waitt@zoo.ox.ac.uk	Examining effects on population biology and behavior, designing field studies for contraceptive trials.	
Dr. Chris Hardy	Invasive Animals CRC	chris.hardy@csiro.au	Explore mechanism to facilitate collaborative initiatives (funds and expertise) between Australian and U.S. researchers via Invasive Animals Cooperative Research Center.	List of key contacts and capacity/expertise and interests circulated to identify “best fit” of ability and need.
Dr. Iris Reichler	U of Zurich	ireichler@vetclinics.unizh.ch	Go on working on GnRH analogues.	None noted.
Dr. S.K. Gupta	Natl. Inst. Of Immunology (New Delhi)	skgupta05@rediffmail.com	My group is currently interested in developing zona pellucida based immunocontraceptive vaccine for female dogs with additional protective efficacy against rabies. We will be willing to build new linkages with other scientists to work on zona pellucida based contraceptive vaccine having dual efficacy to provide protection against other diseases that are important to human (dog acting as one of the hosts) or canine diseases per se.	None noted.

Collaborations Suggested/Initiated: RESEARCH

Individual	Organization	Email	Description of Collaboration Concept	Resources Needed or Comments
Dr. Stephen Boyle Dr. John Verstegen	Va Tech U. FL	smboyle@vt.edu VerstegenJ@mail.vetmed.ufl.edu	Explore a U.S. National Center for Feline and Canine Research to centralize development of contraceptives, as well as explore other animal health issues and zoonotic disease. Target funding from NIH through the Veterinary Workforce Expansion currently pending in legislature. This act is focused on training more veterinarians to work in public health and research. Center would strive to understand biology as related to environmental/disease states, treat the problem not the solution, and model humane research. Major focus on population management ties in which reduction of populations positioned as a key tool in reducing zoonotic reservoir.	Will draft concept paper
Dr. Loretta Mayer Keith Stormo Dr. Julie Levy	Senestech Amplicon U. FI (suggested-not in grp)	lmayer@senestech.com keith@genomex.com levyj@mail.vetmed.ufl.edu		Consider "virtual" center?
<i>Note: Dr. Patricia Olson of Morris Animal Foundation has two recommended contacts for this initiative.</i>				
Ed Boks Dr. Brij Saxena Dr. Meirong Hao Dr. Catherine Mullin	LA Animal Control Cornell Cornell UC Davis	eboks@ani.lacity.org brs2003@med.cornell.edu meh2005@med.cornell.edu chmullin@ucdavis.edu	Define RFP for dog/cat contraceptive: Male/female: single shot Reversible/irreversible Mitigates mating behaviors	
Ed Boks Dr. Jan Scarlet Dr. Brij Saxena	LA Animal Control Cornell Vet Weill Cornell Med School.	eboks@ani.lacity.org jms15@cornell.edu brs2003@med.cornell.edu	To fund RFP for contraceptive vaccine in dog and cat trial	
Dr. Chris Hardy Lyn Hinds	CSIRO CSIRO	chris.hardy@csiro.au Lyn.hinds@csiro.au	Fertility regulation in wild dogs. Vaccine development (new approaches). Vaccine delivery. (New approaches); mechanism of zona/hormonal fertility control; Cacity-molecular genetics/physiology/virology	Reproductive biology/virology Reproductive biology/herbivores
Key expertise: Marsupials/foxes/mice/rabbits biology Affiliation: Invasive Animals Co-operative Research Centre Commonwealth Scientific & Individual Research Organisation, Australia				

Individual	Organization	Email	Description of Collaboration Concept	Resources Needed or Comments
Dr. Enid Styles Tim Vail Patrick Devine	Vets w/o Borders: Canada Senestech Senestech	estiles90@hotmail.com Timothy.Vail@nau.edu patrick.devine@iaf.inrs.ca	Dr. Enid Styles is interested in collaborating on projects that need veterinary behavioral data. "We develop/are developing objective methods to work on behavioral studies with Senestech Chemspay Project." (Discussions not formalized). "Vets Without Borders would also be interested in doing field trials of these products."	
Ed Boks Dr. Brij Saxena Dr. Julie Levy Dr. Meirong Hao Dr. Catherine Mullin Amber Wells	LA Animal Control Cornell U of Florida Cornell UC Davis Albert Einstein	eboks@ani.lacity.org brs2003@med.cornell.edu levyj@mail.vetmed.ufl.edu meh2005@med.cornell.edu chmullin@ucdavis.edu	To develop (respond to?) an RFP for LHR (Receptor) and Hep-CTP vaccine in dogs and cats.	
Dr. Els Cawthorn Holly Anderson Kelly Coladarci Dr. Cori Waitt	PEI Humane Society Cornell, School of Vet Med SPAY University of Oxford	ecawthorn@peihumane society.com holly.anderson2@gmail. com kcoladarci@yahoo.com corri.waitt@zoo.ox.ac.uk	Collaboration between Prince Edward Island (Canada) Humane Society and the Atlantic Veterinary College with the aim to establish a collaboration with the pharmaceutical industry to use PEI as a "small island" study site for efficacy on an alternate method of contraception to control pet/animal overpopulation.	Perhaps this could be made more general: for example, "prepare publications demonstrating that spay and neuter programs are effective tools for cat/dog population control."

Personal Action Plans: SPREAD THE WORD

Individual	Organization	Email	Action Plan	Resources Needed or Comments
Azur Attura		aattura@yahoo.com	Raising awareness ("selling to suburbia"); target groups – general public (especially pet owners), vets, rescue groups, humane education groups.	Fliers at vet offices for general public; articles in trade mags and cat/dog mags; lecturer going to veterinary schools; web-based C.E. credit course for vets; promote/ disseminate the great work and results of Dr. Carlos' group and Galapagos group.
Ed Boks	City of LA, Dept. of Animal Services	eboks@ani.lacity.org	Promote the work of ACC&D and provide input from an "animal control" perspective.	Web links, emails, white papers, etc.
Debra Carlson	Utah State University	dacarlson@cc.usu.edu	To encourage academic/research institutions to make a greater effort to make their research more understandable and accessible to the public (particularly to the community it most affects).	Collaboration with marketing, public relations and English majors (all with perhaps better popular communication skills).
Dr. Els Cawthorn	PEI Humane Society	ecawthorn@peihumanesociety.com	1. Education: Raise awareness of "the problem." Talk about the toolkit. Lots of tools. Spay/neuter just one. Prepare audience for alternatives. 2. Target groups: Practicing veterinarians and veterinary students.	"Form" PowerPoint presentation (compare form letter) that is adaptable to individuals. Up-to-date reference lists of publications relative to the problem (animal overpopulation, control of reproduction), products, physiology of reproduction, projects.
Dr. Kelly Farrell	Angels of Assisi	kfarrell@angelssofarassisi.org	Develop: presentations, letters to journals/articles for local vet association, undergraduate and vet school groups, guest lecturer, etc.	None noted.
Amy Fischer	U of IL, Dept. Animal Sciences	afischer@uiuc.edu	I teach undergraduate animal sciences majors who may or may not attend veterinary school. I will promote the efforts of ACC&D and expose students to these issues and encourage them to consider relevant careers.	Communication, contacts.
Dr. Gail Golab	AVMA	ggolab@avma.org	AVMA is already working to develop backgrounders on animal welfare issues of societal (and hence veterinary) concern. These have the form of a 2-3 page (depending on complexity of issue) synopses of the scientific, historical and social literature/information.	Financial support to hire (or contract) with required scientists (biologic and social) to perform literature review/information retrieval and write backgrounders.

Individual	Organization	Email	Action Plan	Resources Needed or Comments
Dr. Cheryl Dyer	Northern AZ U/Senestech	Cheryl.Dyer@nau.edu	Rabies in dogs as a route to sterilization; WHO trap neuter/pill whose models of population control now target < one year or only female; international public health initiative, public health issues in the U.S. to help drive money into ACC&D directed research.	Need to issue RFPs from ACC&D to direct research community to expend efforts on needed area of investigation and development and have budgets that can support >1 year of research; opportunity to renew if productive and to publish for funders and have ACC&D-sponsored research meetings; provide \$ to help train next generation.
Amy Hogg	Best Friends Animal Society	amyh@bestfriends.org	<ul style="list-style-type: none"> – Education within my own organization – Sharing information through our communication structure (network/magazine?) – Sharing information with international spay/neuter projects 	None noted.
Esther Mechler	Spay USA	alwaysspay@aol.com	Information dissemination.	Funds. Not in budget which is extremely minimal.
Dr. Catherine Mullin	Koret Shelter Medicine Program, UC Davis	chmullin@ucdavis.edu	Disseminate information presented at conference to U.S. shelter community and their vets.	
Patt Nordyke	Texas Federation of Humane Societies	txfederation@austin.rr.com	Education	Updated materials. 10 minute DVD/ PowerPoint presentation to open dialogue.
Dr. Kris Otteman	Oregon Humane Society	KrisO@oregonhumane.org	<p>ACC&D summary of meeting: Vet Economics</p> <p>Article in Banfield Journal: future potential of non-surgical sterilants and possibilities</p> <p>Contact Ray Glick, Becky Turner, Kathy Baumgardner (these for Banfield or Vet Econ?)</p> <p>AVMA support? Concerned.</p> <p>UNAM support: Jeff Brant</p> <p>Brainstorm about non-vet supporters: AMA, etc.</p> <p>Speak at Western, Wild West Conference, and others: NAVC, etc.</p> <p>Lobbyist: OHS, Banfield, OVMA? Senators</p>	Time! Reminders. Writing support.
Dr. David Rundell	City of Houston	dprundellclan@aol.com	Field trials in a shelter? Education of veterinarians, other shelters.	

Individual	Organization	Email	Action Plan	Resources Needed or Comments
Lauren Semenuik	Feline Fdn. of Greater Washington	hilauren1@verizon.net	Promote non-surgical sterilization with emphasis on the legislative community.	None noted.
Dr. Lynne Swanson	Safe Harbor Farm	Safeharborfarmadoptions@hotmail.com	Conference/C.E. based outreach to practicing vets to increase awareness of the #1 cause of death in companion animals (death at high-kill shelters). There will be less resistance to new solutions if the problem is better acknowledged. Willing to help with conference schedules if needed.	Like-interested vets to join a committee with me with the aim of participation at large vet conferences asap, well-prepared with positive message, well-constructed sound bites and pictures that get our message across.
Heather Tallent	Humane Society International	htallent@hsi.org	Online fundraising methods; spreading word to international organizations (WHO, OIE), animal groups, governments; spreading word domestically; research getting issue on international donation sites (Global Giving, etc.). I'd also be happy to???	Collaboration with ACC&D staff
Dr. Bill Torgeson	American Humane Assoc.	billt@americanhumane.org	<ul style="list-style-type: none"> – Support for field/market studies potentially. – Dissemination of information to constituents of AHA, general public and vet medical professionals/shelter staff. – Training programs on non-surgical sterilization agents, technology and use. – Advocate at federal and state agency/legislative agendas. 	May have to add additional staff to support, coordinate, investigate or administrate grants, or to provide training when appropriate.
Dr. Amy Kasprisin	City of Fayetteville Animal Services	akasprisin@ci.fayetteville.ar.us	I would like to spread the word by doing field trial clinics in the community of the shelter where I am working. I am also willing to speak to any organizations, veterinarians, and veterinary students about chemical sterilization. I am willing to work with Vets without Borders to do field trials on a volunteer basis or with minimal financial assistance.	Possibly some financial assistance
Dr. Iris Reichler	U of Zurich	ireichler@vetclinics.unizh.ch	Give presentations about spay or neuter, contraceptives for dogs and cats, pet overpopulation to raise awareness in veterinary students, practicing veterinarians and pet owners.	Updated materials, data and photos

Individual	Organization	Email	Action Plan	Resources Needed or Comments
Holly Anderson	Cornell, School of Veterinary Medicine	holly.anderson2@gmail.com	<ul style="list-style-type: none"> – Conduct a survey on the current awareness/knowledge of euthanasia in shelters among veterinarians and veterinary students. – Research how much funding is currently devoted to developing methods of reducing euthanasia in shelters vs. how much funding is devoted to finding solutions to other main causes of death in dogs and cats. – Possibly compose a letter to the editor of JAVMA or other journals with the results. – Compile a concise summary of promising non-surgical contraceptives being developed. 	

Collaborations Suggested/Initiated: SPREAD THE WORD

Individual	Organization	Email	Action Plan	Resources Needed or Comments
Lorraine Chittock Possibly with: Kelly Coladarci, LVT Amy Hogg	SPAY Best Friends Animal Society	LC@LorraineChittock.com kcoladarci@yahoo.com amyh@bestfriends.org	L. Chittock writes: Very interested in putting together a video of what is in process in Mexico, Navajo Nation and Galapagos, to be used to promote use and interest in other countries (or the U.S., though the U.S. might be less interested in this and more interested in feral cat situations). Amy Hogg from Best Friends was interested in "shopping" this video to her contacts overseas who have shown a lot of resistance. A video could include data as well as more emotional snippets for multi-use purposes. I met with Kelly Coladarci who's working with municipalities on the Mexican Yucatan peninsula. This could be done in the Galapagos and Navajo Nation, too. Also have website ideas I can email later. Connect me with other international people, please!	Some basic funding. Since my lifestyle is more flexible, I could liaison with other interested parties who are already there. There could be interest from Animal Planet/Petfinder, but I wonder if this will take a lot of time.
Dr. Lynne Swanson Holly Anderson Kelly Coladarci, LVT Dr. Jan Scarlett	Safe Harbor Farm Cornell, School of Vet Med SPAY Cornell U (poss. write-in)	Safeharborfarmadoptions@hotmail.com holly.anderson2@gmail.com kcoladarci@yahoo.com jms15@cornell.edu	Web-based CE credit course for practicing vets and veterinary students about the overpopulation problem and need for "herd health" for companion animals.	None noted.
David Gies Dr. Steve Zawistowski	Animal Assistance Fdn ASPCA	giesd@aaf-fd.org stevez@aspc.org	Raising awareness (selling to suburbia); target groups: general public (especially pet owners), vets, rescue groups, humane ed groups.	
Dr. Cheryl Dyer Dr. Steve Zawistowski	Northern Arizona University/Senestech ASPCA	Cheryl.Dyer@nau.edu stevez@aspc.org	Public relations with Northern Arizona University administration and Flagstaff community to acknowledge research and potential benefit to cat/dog populations that leads to community and Navajo Nation benefit: managing cat/dog populations. Presence of ACC&D and other animal welfare agencies in collective thinking of university educators/administrators. Steve Zawistowski: To help researchers educate university administrators to adopt and promote research with VCD to address cat and dog overpopulation, particularly on the Navajo Nation with developing nation problems.	

Individual	Organization	Email	Action Plan	Resources Needed or Comments
Holly Anderson Dr. Els Cawthorn	Cornell, School of Vet Med PEI Humane Society	holly.anderson2@gmail.com ecawthorn@peihumanesociety.com	Create a "form" educational PowerPoint presentation (that is adaptable to individuals) for vet students, veterinary conferences, and/or shelter veterinarians. Goal: raise awareness of the problem of euthanasia in shelters, educate about current efforts of spay/neuter programs (including successful use of zinc gluconate in the field) and future directions (prepare audience for alternative of non-surgical sterilization; stress their advantages and exciting potential).	
*Holly Anderson	Cornell, School of Vet Med	holly.anderson2@gmail.com	Spread the word about the problem of euthanasia in shelters and the upcoming possibilities of non-surgical sterilization to veterinary students. Also increase efforts to include vet students in future ACC&D symposiums.	

Personal Action Plans: OTHER

Individual	Organization	Email	Action Plan	Resources Needed or Comments
FUNDING				
Minn Jordan	Blue Tabby Rescue	mjordan@umbc.edu	State funding for S/N programs and fundraising/ donations from foundations, animal welfare toward contraceptive research and development.	Information (and contacts?). I need to research how to get program into state budget.
Anne Ostberg	Pegasus Foundation	aostberg@pegasusfoundation.org	Discuss idea of committing 3-10% of program funding to development of non-surgical sterilants, then challenge other animal grant makers to also commit funding (assuming I get approval of our director, founder and trustees).	Power of persuasion
GOVERNMENT, LEGISLATION, PUBLIC HEALTH				
Lauren Semeniuk	Feline Fdn of Greater Wash.	hilauren1@verizon.net	I am interested in working with ACC&D on legislative/regulatory and public relations strategies.	None noted.
Dr. Cheryl Dyer	North. AZ U/Senestech	Cheryl.Dyer@nau.edu	Rabies in dogs as a route to sterilization. WHO trap neuter/pill whose models of population control now target < one year or only female. International public health initiative, public health issues in the U.S. to help drive money into ACC&D directed research.	
PET POPULATION STUDY				
Dr. Corri Wait	University of Oxford	corri.waitt@zoo.ox.ac.uk	Examine effects on population biology and behavior, design field studies for contraceptive trials.	None noted.
Kelly Coladarci	SPAY	kcoladarci@yahoo.com	Get population numbers internationally (Mexico-Yucatan) before and after S/N clinics. Help to prove the impact of these campaigns. Also, work with SAAB in the Yucatan region.	Guidance on establishing a proper assessment as an international model.
ADVISORY PANEL				
Dr. Marc Antoine Driancourt	Intervet	marc-antoine.driancourt@intervet.com	My suggestion is to set up an evaluation committee (which will include selected people from the industry) to select among scientific idea and hypotheses that have the potential to be changed into products.	None noted.
Dr. Apryl Steele	Tender Touch Animal Hosp.	apryls@tendertouchvet.com	Participate in clinical scientific advisory board as a practicing veterinarian.	Assistance in travel if done in person but online workgroups are better option.
EDUCATION				
Holly Anderson	Cornell, School of Vet Med	holly.anderson2@gmail.com	Learn about the drug approval process.	

Collaborations Suggested/Initiated: OTHER

Individual	Organization	Email	Action Plan	Resources Needed or Comments
GOVERNMENT, LEGISLATION, PUBLIC HEALTH				
Dr. Julie Levy	U of FL, College of Vet Med	levyj@mail.vetmed.ufl.edu	Combining human public-health initiatives such as rabies prevention with contraception. Funding from public health agencies. Combined resources for delivering disease vaccines and contraceptive products at the same time to benefit both public health and animal welfare agendas.	International contacts: public health, animal welfare, pharma funding.
Dr. Don Polley	Humane Solutions	ddpdvm@sbcglobal.net		
Dr. Andrew Rowan (nominated as lead but not in session)	HSUS	arowan@hsus.org		
Dr. Frank Boue	AFSSA	f.boue@afssa.fr		
Esther Mechler	Spay USA	alwaysspay@aol.com		
Holly Anderson	Cornell, School of Vet Med	holly.anderson2@gmail.com		
IDENTIFICATION				
Dr. Sarah Totton	Vets without Borders: Canada	sarah.totton@gmail.com	To find a relatively painless method of permanently marking an animal so that those who have been chemically sterilized can be identified as sterilized from a distance. Would be good if it could be done while the animal is awake, be quick, cheap, permanent, and with low risk of infection or marker loss. A USA and an international symbol for altered cats and dogs must be agreed upon and the information disseminated. We also discussed that this may not be as important as we currently believe. We need to ask our internal contacts. Feline (left ear tip) = DONE Canine. Three concerns: Cultural acceptance, seen up close (tattoo), seen far away (maybe radio-microchips).	None noted.
	Marwar Animal Protection Trust			
Dr. Kelly Farrell	Angels of Assisi	kfarrell@angelssofassisi.org		
Dr. Kris Otteman	Oregon Humane Society	kriso@oregonhumane.org		
Amy Hogg	Best Friends Animal Society	amyh@bestfriends.org		