The 7th International Conference on Fertility Control in Wildlife

Wednesday, August 29th

8:00-8:15 Welcome and Introduction (Jay Kirkpatrick)

SESSION 1. Development of Fertility Control Tools (David Cowan)

8:15-8:40 1.1 Development of Diazacon as a wildlife Contraceptive
Fagerstone, K. A., et al

8:40 – 9:05 1.2 Improving the immunogenicity of gonadotrophin releasing hormone (GnRH) immunocontraceptive formulations with ISCOMs and CpG ODN adjuvants  McDonald, I. J, et al

9:05 – 9:30 1.3 Chemical castration of the coyote (Canis latrans)
MacGregor, M. J., et al


9:55 – 10:25 Break

10:25-10:50 1.5 Approaches to the development of fertility-control vaccines based on zona pellucida antigens for invasive small Indian mongoose (Herpestes auropunctatus)  Asano, M. et al

10:50–11:15 1.6 Accelerated follicle depletion in vitro and in vivo using the combination of VCD and triptolide  Dyer, C., et al

11:15–11:40 1.7 How can rabies vaccines help control the fertility of wild brushtail possums?  Duckworth, J. A. et al

11:40–12:05 1.8 Laparoscopic vasectomy in African savannah elephant (Loxodonta africana); Surgical technique and results  Marais H. J., et al

12:05 – 1:05 Lunch

1:05 – 1:30 1.9 Effects of 4-vinylcyclohexene diepoxide on ovarian follicle populations and health of female brushtail possums  Burd, A. M.
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<th>SESSION 2.</th>
<th>Development of Delivery Methods (Cheryl Asa)</th>
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<td>1:30 - 1:55</td>
<td>2.1 Long-term methods and effects of remotely treating wildlife with Immunocontraception  Grams, K. and Naugle, R</td>
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<td>1:55 – 2:20</td>
<td>2.2 Development of a prototype dart system to deliver Suprelorin implants to kangaroos  Herbert, C., et al</td>
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<td>2:20 – 2:45</td>
<td>2.3 Assessing amorphous silica nanoparticles as an oral vaccine delivery system  McDonald, I. J, et al</td>
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<td>2:45 – 3:15</td>
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<th>SESSION 3.</th>
<th>Fertility Control in Captive Wildlife (Lyn Hinds, Chair)</th>
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<td>3:15 – 3:40</td>
<td>3.1 Relative risk of uterine pathology associated with contraception with Suprelorin® or a synthetic progestin compared to barren cycles or pregnancy  Asa, C. S., et al</td>
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<td>3:40 – 4:05</td>
<td>3.2 Immunocontraception of captive exotic species. V. Prolonged antibody titers and blood chemistry values in Dall Sheep (Ovis dalli dalli) and domestic goats (Capra Hircus) immunized with porcine zona pellucida  Lyda, R. O., et al</td>
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<td>4:05 – 4:30</td>
<td>3.3 The role of reproductive health surveillance in zoo and wildlife contraception  Moresco, A</td>
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<td>4:30 – 4:55</td>
<td>3.4 Applying human clinically proven techniques for contraception and fertility to endangered zoo species  Silber, S. J</td>
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**Thursday, August 30**

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<th>8:30 – 8:45</th>
<th>Announcements</th>
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<td>8:45 – 9:10</td>
<td>3.5 Long-term exposure to a high dose GnRH agonist permanently down regulates gonadotrope immunoreactivity in the anterior pituitary gland  Edwards, B., et al</td>
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<th>SESSION 4.</th>
<th>Wildlife Management Applications of Fertility Control (Lowell A. Miller, Chair)</th>
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<td>9:35 – 9:55</td>
<td>4.2 From evaluation to practical application of the immunocontraceptive vaccine GonaCon™ in the UK  Cowan D. P., et al</td>
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<td>9:55 – 10:25</td>
<td>Break</td>
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10:25 – 10:50  4.3  The use of DiazaCon to limit fertility in grey squirrels  
Cowan, D.

10:50 – 11:15  4.4  Use of contraception as a disease management tool  
Rhyan, J. C., et al

11:15 – 11:40  4.5  SpayVac® effectively controls the fertility of Columbian Black-tailed Deer (Odocoileus hemionus columbianus)  
Fraker, M. A

11:40 – 12:05  4.6  Field evaluation of the immunocontraceptive, GonaCon-B, in free-ranging horses at Theodore Roosevelt National Park  

12:05 – 1:05 Lunch

1:05 – 1:30  4.7  Effects of gonadotropin-releasing hormone vaccination (GonaCon-B) on fertility in free-ranging female rocky mountain elk (Cervus elaphus nelsoni)  

1:30 – 1:55  4.8  Effects of simultaneous intramuscular injections of GonaCon™ and rabies vaccine in captive female dogs (Canis familiaris) in Mexico  
Lecuona, L., et al.

1:55 – 2:20  4.9  Suprelorin contraception in Australian marsupials: reflections on 15 years of captive and field research  
Herbert, C., et al

2:20 – 2:50 Break

2:50 – 3:15  4.10  Trial of zona pellucida synthetic peptide to develop immunocntraception in Sika deer (Cervus nippon)  
Kobayoshi, K. et al.

SESSION 5.  Socio-Political and Regulatory Issues in wildlife fertility Control  
(Henk Bertschinger, Chair)

3:15 – 3:40  5.1  An economic model for developing effective, cost-efficient programs for managing wild Horse populations on public lands in the U.S.  
De Seve, C. and Boyles Griffin, S

3:40 – 4:05  5.2  Contraceptive technology for wildlife – bringing new products to market - The political and social barriers for contraception in pest birds: A case study of OvoControl®  
MacDonald, A. and Wolf, E. G

4:05 – 4:30  5.3  Ungulate fertility control in units of the National Park Service: future directions  

4:30 – 4:55  5.4  Managing wildlife with contraception: why is it taking so long?  
Rutberg, A. T.
Friday, August 31st

8:20-8:30   Announcements

8:30 – 8:55  5.5  State level approaches to managing the use of contraceptives in wildlife
Eisemann, J. D., et al

SESSION 6.  Population Level Effects of Fertility Control (J. F. Kirkpatrick, Chair)

8:55 – 9:20  6.1  Effects of immunocontraception on a population of insular feral horses
(\textit{Equus caballus}) Gillikin, P

9:20 – 9:45  6.2  Lack of spatial and behavioural responses to immunocontraception
application in African Elephants (\textit{Loxodonta africana})
Delsink, A. K., et al

9:45 – 10:10 6.3  Romance without responsibilities: the use of the
immunocontraceptive vaccine porcine zona pellucida to manage
free-ranging bison (\textit{Bison bison}) on Catalina Island, California
Duncan, C. L. et al

10:10 – 10:40  Break

10:40 – 11:05  6.4  The Tembe Elephant Park elephant (\textit{Loxodonta africana})
immunocontraception story Bertschinger, H. J., et al

11:05 – 11:30  6.5  Use of vasectomy in free ranging African elephants (\textit{Loxodonta africana})
as a method of population management in southern Africa
Stetter, M., et al

11:30 – 11:55  6.6  Single-treatment PZP immunocontraception associated with rapid
reduction of a white-tailed deer (\textit{Odocoileus virginianus}) population
at Fripp Island, SC, USA Rutberg, A. T., et al

11:55 – 1:05  Lunch

SESSION 7.  Animal Welfare in Relation to Fertility Control (J. F. Kirkpatrick, Chair)

1:05 – 1:30  7.1  Wildlife fertility control: an NGO perspective
Rowan, A., et al

SESSION 8.  Prospects and Challenges (Phil Cowan, Chair)

1:30 – 1:55  8.1  Twenty years of immunocontraceptive research: what have we learned?
Miller, L. A., and Fagerstone, K. A.

1:55 – 2:20  8.2  GnRH receptors and effects outside the
hypothalamo-pituitary-reproductive axis  Skinner, D. C
2:20 – 2:45  8.3  Litter sizes of captive and free-ranging African lions (Panthera leo) in South Africa: Implications for fertility control
Bertschinger, HJ and M. Schulman

2:45 – 3:15  Break

3: 15 – 3:40  8.4  Is immunocontraceptive vaccine efficacy reduced by the presence of enteric parasites?  Fagerstone, K. A.

3:40 – 4:05  8.5  Reproductive endocrinology of free-ranging African elephant (Loxodonta africana) cows treated with gonadotropin-releasing hormone (GnRH) vaccine  Bertschinger, H., et al

4:05 – 4:30  8.6  From the pens to the field: real-world wildlife Contraception
Turner, J. W., Jr

4:30 – 4:55  Closing Summary: Should wildlife fertility control be used on all conceivable occasions?  Mark Stetter

4:55- 5:00  Acknowledgements  (J. F. Kirkpatrick)

Conference Organizing Committee
Cheryl Asa
Henk Bertschinger
Dave Cowan
Phil Cowan
Lyn Hinds
Jay F. Kirkpatrick
Lowell Miller

Conference Coordinator
Carol England