



International Society for Wildlife Endocrinology (ISWE)
2nd Annual Meeting
Toronto Zoo
November 3-4, 2011



THURSDAY, NOVEMBER 3:

- 7:45-8:00 Transport from Delta Hotel to Zoo
- 8:00-8:30 Registration
- 8:30-9:00 Welcome & Opening:
Drs. Janine Brown and Nadja Wielebnowski, co-chairs of ISWE

Session Moderator: Janine Brown, Smithsonian Conservation Biology Institute

Keynote Address I:

- 9:00-9:50 **Environmental Endocrinology: Applications to Understanding the Fitness of Wildlife**
Glen Van Der Kraak, Department of Integrative Biology, University of Guelph, Guelph, ON, Canada

Session I: Method Development

- 10:00-10:25 **Data Integrity for the Wildlife Endocrinology Database.** E. Wilkerson, D. Armstrong, R. Santymire.
Presenter: Edward Wilkerson, Lincoln Park Zoo, Chicago, IL, USA
- 10:25-10:50 **Validation of an Assay for Measurement of Salivary Melatonin in Nocturnal Primates.** G. Fuller, M. Vick, M.A. Raghanti, C. Kuhar, P. Dennis, K. Lukas.
Presenter: Grace Fuller, Cleveland Metroparks Zoo, Cleveland, OH, USA
- 10:50-11:10 BREAK
- 11:10-11:35 **An Inter-lab Comparison of Progesterone EIA versus RIA in Bovidae and Hylobatidae Species.** D. Armstrong, J. Bauman, M. Rafacz, R. Santymire.
Presenter: Diana Armstrong, Lincoln Park Zoo, Chicago, IL, USA
- 11:35-12:00 **What about Hair Cortisol: a Radiometabolism Study in Guinea Pigs.** M. Lepschy, K. Keckeis, H. Schöpfer, J. Troxler, R. Palme.
Presenter: Michael Lepschy, Department of Biomedical Sciences, University of Veterinary Medicine, Vienna, Austria
- 12:00-1:00 LUNCH

Session Moderator: Nadja Wielebnowski, Chicago Zoological Society

Session II: Innovative Endocrinology

- 1:00-1:25 **Estradiol in the Reproductive Biology of Edible Sea Urchins: Which is the Function?** M. Sugni, S. Mercurio, D. Fernandes, N. Guazzoni, C. Porte, M.D. Candia Carnevali.
Presenter: Michela Sugni, Department of Biology, University of Milan, Milan, Italy

- 1:25-1:50 **Habitat Quality and Hormone Profiles in Female Red Colobus Monkeys (*Procolobus rufomitratu*s) in Kibale National Park, Uganda.** K. Milich, R. Stumpf, J. Bahr.
Presenter: Krista Milich, Department of Anthropology, University of Illinois at Urbana-Champaign, IL, USA
- 1:50-2:15 **Does the Odour (or/scent) of Faeces allow Individual Identification in Brown Bears and Iberian Lynx?** M. Dehnhard, A. Zedrosser, F. Rosell, K. Jewgenow.
Presenter: Martin Dehnhard, Leibniz Institute for Zoo and Wildlife Research, Berlin, Germany
- 2:15-2:35 BREAK
- Session III: Recent Advances in Basic Endocrinology as Applied to Adrenal Function**
- 2:35-3:00 **Corticosterone and Thyroxine Profiles of Kemp's Ridley Sea Turtles (*Lepidochelys kempi*) Recovering from Cold-stunning.** K.E. Hunt, C. Innis, R.M. Rolland.
Presenter: Kathleen Hunt, New England Aquarium, Boston, MA, USA
- 3:00-3:25 **Identification of a Suitable Enzyme Immunoassay for Assessment of Adrenocortical Endocrine Function in African Buffalo (*Syncerus caffer*) based on Faecal Analysis.** A. Ganswindt, A.S.W. Tordiffe, E. Stam, M. Howitt, F. Jori.
Presenter: Andre Ganswindt, Department of Zoology and Entomology, University of Pretoria, Pretoria, Republic of South Africa
- Session IV: Recent Advances in Basic Endocrinology as Applied to Reproduction**
- 3:25-3:50 **Monitoring of Reproductive Steroid Hormones in Female Aardvarks (*Orycteropus afer*) – Evidence for Embryonic Diapause.** A. Ganswindt, D. Gierhahn, A. Bellem, N. Wielebnowski.
Presenter: Andre Ganswindt, Department of Zoology and Entomology, University of Pretoria, Pretoria, Republic of South Africa
- 3:50-4:15 **An Effective and Reversible Contraceptive Option for the Management of Captive Cotton-top Tamarins (*Saguinus oedipus*): Method Validation and Results from a Study of Long Acting Subcutaneous Levonorgestrel (LNG) Gel Depot.** C.J. Wheaton, A. Savage, D. Neiffer, W. Qu, Y. Sun, B.L. Lasley.
Presenter: Catherine Wheaton, Disney Animal Kingdom, Lake Buena Vista, FL, USA
- 4:15-4:30 Closing Remarks
- 4:30-5:30 Tour of Wildlife Health Centre
- 6:00-7:00 DINNER
- 7:30-8:00 Return transport to Delta Hotel

FRIDAY, NOVEMBER 4:

8:15-8:30 Transport from Delta Hotel to Zoo

8:30-9:00 Welcome & Refreshments:

Session Moderator: Karen Goodrowe, Point Defiance Zoo & Aquarium

Keynote Address II:

9:00-9:50 **The Ecology of Stress: Insights from Natural Populations**

Rudy Boonstra, Centre for the Neurobiology of Stress, University of Toronto at Scarborough, Toronto, ON, Canada

Session IV: Recent Advances in Basic Endocrinology as Applied to Reproduction (cont'd.)

10:00-10:25 **Investigation of Individual and Group Variability in Estrous Cycle Characteristics in Female Asian Elephants (*Elephas maximus*) at the Oregon Zoo.** J.L. Brown, S.S. Glaeser, M.S. Martin, M. Finnegan.
Presenter: Janine Brown, Smithsonian Conservation Biology Institute, Front Royal, VA, USA

10:25-10:50 **Endocrine and Behavioural Correlates of Musth in the two Phenotypes of Male Asian Elephants (*Elephas maximus*).** R. Ghosal, A. Ganswindt, P.B. Seshagiri, R. Sukumar.
Presenter: Ratna Ghosal, Centre for Ecological Sciences, Indian Institute of Science, Bangalore, India

10:50-11:10 BREAK

11:10-11:35 **Seasonal Changes in Steroid Hormone Profiles, Body Weight, Semen Quality, and Accessory Sex Organs in Captive African Wild Dogs (*Lycaon pictus*) in South Africa.** A.E. Newell-Fugate, J.O. Nöthling, H.J. Bertschinger.
Presenter: Annie Newell-Fugate, Department of Production Animal Studies, University of Pretoria, Onderstepoort, South Africa

11:35-12:00 **Seasonal Changes in Hormonal Status in Tropical Cat Species at the Northern Edge.** S.V. Naidenko, E.V. Pavlova, E.A. Ivanov, V.V. Rozhnov.
Presenter: S.V. Naidenko, Institute of Ecology and Evolution, Moscow, Russia

12:00-1:30 LUNCH

Session Moderator: Mandi Vick, Cleveland Metroparks Zoo

Session IV: Recent Advances in Basic Endocrinology as Applied to Reproduction (cont'd.)

1:30-1:55 **Hormonal Evidence of the Autonomous Ovary in the Tasmanian Devil (*Sarcophilus harrisi*).** T. Keeley, M. Dehnhard.
Presenter: Tamara Keeley, Taronga Western Plains Zoo, Dubbo, Australia

1:55-2:20 **Use of Urinary Biomarkers of Ovarian Function in the Chinchilla: a Comparative Study of Two Ovulation Induction Protocols.** M.F. Ponzio, G.F. Mastromonaco, M.G. Galeano, C. Gilman, N.S. Bourguignon, R.D. Ruiz, M. Fiol de Cuneo.
Presenter: Marina Ponzio, Instituto de Fisiologia, Universidad Nacional de Córdoba, Córdoba, Argentina

- 2:20-2:45 **Spontaneous Ovulation in Jaguars (*Panthera onca*)**. L.C. Metrione, S. Barnes, L.M. Penfold.
Presenter: Lara Metrione, South-East Zoo Alliance for Reproduction and Conservation, Yulee, FL, USA
- 2:45-3:05 BREAK
- 3:05-3:30 **Using Endocrinology to Understand Basic Reproductive Biology and Develop Assisted Reproductive Techniques in an Endangered Equid, the Persian Onager (*Equus hemionus onager*)**. M.M. Vick, D.E. Wildt, R.A. Weiss, B.A. Wolfe, K.E. Archibald, B.S. Pukazhenthii.
Presenter: Mandi Vick, Cleveland Metroparks Zoo, Cleveland, OH, USA
- 3:30-3:55 **Determining Biological Factors that Influence Mate Choice in the Endangered Black-footed Ferret**. R.M. Santymire, P. Marinari, J. Kreeger, H. Branvold, M. Rafacz.
Presenter: Rachel Santymire, Lincoln Park Zoo, Chicago, IL, USA
- 3:55-4:20 **Differences in Fecal Testosterone Patterns of Breeding and Non-breeding Male and Female Kori Bustards (*Ardeotis kori*)**. L.M. Penfold, S. Hallager, J. Boylan, M. de Wit, L.C. Metrione, M. Oliva.
Presenter: Linda Penfold, South-East Zoo Alliance for Reproduction and Conservation, Yulee, FL, USA
- 4:20-4:30 Closing Remarks
- 4:30-4:45 Return transport to Delta Hotel
- 4:30- Working group sessions
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Meeting Venue:

The ISWE meeting will be held in the Administrative Building of the Toronto Zoo. This is accessible from Old Finch Avenue (not the Front / Visitor Entrance of the Zoo). Parking in the Administrative Building lot is free.

Transportation:

Shuttle service will be provided daily to and from the Zoo. Please be at the front entrance of the Delta Hotel at least five minutes prior to the departure time listed in the program schedule above.

Directions from Delta Hotel:

Turn left from the hotel parking lot onto Village Green Square. At the traffic lights, turn left onto Kennedy Road. Take the ramp onto Highway 401 East. Travel on Highway 401 East and take the Meadowvale Road exit. Turn left onto Meadowvale Road. Drive past three traffic lights and turn left onto Old Finch Avenue. Turn into the first driveway on your left.

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