ICAR 2008

13-17 July 2008
Budapest, Hungary

Preliminary Programme

www.icar2008.org
Plenary Session 1

**Trends in Research and Care of Reproduction**

Chairperson:
Laszlo Solti (Hungary)
Gareth Evans (Australia)

<table>
<thead>
<tr>
<th>P1</th>
<th>Tendencies and perspectives in research and care of reproduction (William W. Thatcher, University of Florida, USA)</th>
</tr>
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<tbody>
<tr>
<td>P2</td>
<td>Animal models for bioethical research (Graeme B. Martin, University of Western Australia)</td>
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<tr>
<td>P3</td>
<td>Fetal programming and prototypical variability in domestic species (Jean-Paul Renard, INRA, France)</td>
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</tbody>
</table>

Plenary Session 2

**Developments in Sustainable Animal Production and Reproduction**

Chairperson:
Ron Butler (USA)
Peter Horn (Hungary)

<table>
<thead>
<tr>
<th>P4</th>
<th>Endocrine disrupters and other feed contaminating environmental pollutants as risk factors in animal reproduction (Stewart M. Rhind, Macauly Institute, Aberdeen)</th>
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</thead>
<tbody>
<tr>
<td>P5</td>
<td>Fatty acid constituents of daily ration as factors influencing reproduction in cattle (Jose E. Santos, University of California, Davis, USA)</td>
</tr>
<tr>
<td>P6</td>
<td>Genetic merit, functional characteristics of GH/IGF axis and reproduction: comparative aspects in ruminants and pig (Matthew C. Lucy, University of Missouri, USA)</td>
</tr>
</tbody>
</table>

Plenary Session 3

**Neuroendocrine control of reproduction**

Chairperson:
Dieter Schams (Germany)
Leon J. Spicer (USA)

<table>
<thead>
<tr>
<th>P7</th>
<th>Seasonality of reproduction in Mammals: options, regulatory mechanisms, practical implications (Philippe Chemineau, INRA, Tours, France)</th>
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<tbody>
<tr>
<td>P8</td>
<td>Selection of dominant follicle: comparison of the ruminant, equine and primate models (Monika Mihm, Glasgow University Veterinary School, UK)</td>
</tr>
<tr>
<td>P9</td>
<td>Regulation of luteal function and luteolysis: hormonal control, immune mechanisms, and inter-cellular communication (Dariusz J. Skarzynski, Institute of Animal Reproduction and Food Research, Olsztyn, Poland)</td>
</tr>
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</table>
### Plenary Session 4

**Conservation of Biodiversity**

Chairperson:  
H. Gustafsson (Sweden)  
M. Illera (Spain)

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<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>P10</td>
<td>Captive breeding of cheetahs in South Africa – 30 years of data with some references to captive breeding of lions</td>
<td>Henk Bertschinger, University of Pretoria, South Africa</td>
</tr>
<tr>
<td>P11</td>
<td>Conservation of biodiversity: New methods to improve reproduction in rare mammals</td>
<td>Martin Dehnhard, Institute for Zoo and Wildlife Research, Berlin, Germany</td>
</tr>
<tr>
<td>P12</td>
<td>Reproductive biotechnology and gene mapping, as tools for conserving rare breeds of farm mammals</td>
<td>Julie Long, USDA Beltsville Agricultural Research Center, USA</td>
</tr>
</tbody>
</table>

### Symposia Sessions 1-12

#### Symposium Session 1  
**Bovine Reproduction**

Chairperson: D. C. Wathes (UK)

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<thead>
<tr>
<th>Paper</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1</td>
<td>Genetic improvement and reproduction in dairy cattle: requirement of production systems</td>
<td>Brit Berglund, Department of Animal Breeding and Genetics, Swedish University of Agricultural Sciences, Uppsala, Sweden</td>
</tr>
<tr>
<td>S2</td>
<td>Endocrine and metabolic interactions contributing subfertility in dairy cows</td>
<td>Jo Leroy, University of Antwerp, Belgium</td>
</tr>
<tr>
<td>S3</td>
<td>Underlying mechanisms and clinical relevance of embryo – endometrium – corpus luteum interaction in dairy cows</td>
<td>Bob S. Robinson, University of Nottingham, UK</td>
</tr>
<tr>
<td>S4</td>
<td>Automatic ovulation detection in cows</td>
<td>Nicolas C. Friggens, Danish Institute of Agricultural Sciences, Tjele, Denmark</td>
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</tbody>
</table>

#### Symposium Session 2  
**Reproduction of Small Ruminants**

Chairperson: Chis Maxwell (Australia)

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<tr>
<th>Paper</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>S5</td>
<td>Genetic aspects of reproduction in sheep</td>
<td>David Notter, Virginia Polytechnic Institute &amp; State University, Blacksburg, USA</td>
</tr>
<tr>
<td>S6</td>
<td>Nutritional aspects of reproduction in small ruminants</td>
<td>Rex J. Scaramuzzi, Royal Veterinary College, London, UK</td>
</tr>
<tr>
<td>S7</td>
<td>Management of goat reproduction and insemination for genetic improvement</td>
<td>Bernard Leboeuf, INRA, France</td>
</tr>
<tr>
<td>S8</td>
<td>Developmental capabilities of unsexed and pre-sexed embryos produced in vitro from 3-7 week-old prepubertal lambs</td>
<td>Katherine Morton, Centre for Advanced Technologies in Animal Genetics and Reproduction (ReproGen), Faculty of Veterinary Science, Sydney, Australia</td>
</tr>
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</table>
### Symposium Session 3
#### Reproduction of Pet Carnivores
Chairperson: Wenche Farstad (Norway)

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<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker and Institution</th>
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<tbody>
<tr>
<td>S9</td>
<td>Updates of reproductive physiology, genital diseases and artificial insemination in domestic cat</td>
<td>Eva Axner, Faculty of Veterinary Medicine and Animal Science, Uppsala, Sweden</td>
</tr>
<tr>
<td>S10</td>
<td>Reproduction of domestic ferret</td>
<td>Heli Lindeberg, University of Kuopio, Finland</td>
</tr>
<tr>
<td>S11</td>
<td>Physiology of canine anestrus and methods manipulating the estrus interval in bitches</td>
<td>Auke C. Schaefers-Okkens, Faculty of Veterinary Medicine, Utrecht, The Netherlands</td>
</tr>
<tr>
<td>S12</td>
<td>The ethics and role of artificial insemination with fresh and frozen semen in dog breeding</td>
<td>Gary C.W. England, UK</td>
</tr>
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### Symposium Session 4
#### New Methods in Reproduction
Chairperson: M.-A. Driancourt (France)

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<th>Session</th>
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<tr>
<td>S13</td>
<td>Basic and applied aspects on the control of GnRH and LH secretions by kisspeptin</td>
<td>Alain Caraty, INRA Nouzilly, France</td>
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<tr>
<td>S14</td>
<td>Vaccines for fertility regulation</td>
<td>Richard Fayrer Hosken, College of Veterinary Medicine, Athens, USA</td>
</tr>
<tr>
<td>S15</td>
<td>Recombinant gonadotrophins in assisted reproduction</td>
<td>Thomas E. Adams, University of California, Davis, USA</td>
</tr>
<tr>
<td>S16</td>
<td>Recent progress in embryonic stem cell research and its application in farm animals</td>
<td>Fulvio Gandolfi, University of Milan, Italy</td>
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### Symposium Session 5
#### Reproduction of Buffalo and Exotic Bovidae
Chairperson: Mark Henry (Brazil)

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<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker and Institution</th>
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<tbody>
<tr>
<td>S17</td>
<td>Reproduction of domestic buffalo</td>
<td>Oswin Perera, University of Peradeniya, Sri Lanka</td>
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<tr>
<td>S18</td>
<td>The postpartum ovarian activity (physiology, nutritional aspects, management) in South Asian Zebu cattle</td>
<td>Singh Nanda, Guru Angad Dev. Veterinary &amp; Animal Sciences University, India</td>
</tr>
<tr>
<td>S19</td>
<td>Mother-calve behavior and management in Zebu and buffalo cows and their calves from birth to weaning</td>
<td>Mateus J.R.P. da Costa, Universidade Estadual Paulista Júlio de Mesquita Filho, Brazil</td>
</tr>
<tr>
<td>S20</td>
<td>Reproductive endocrinology and biotechnological interventions for reproduction augmentation in Yaks and Mithuns</td>
<td>B. S. Prakash, National Dairy Research Institute, India</td>
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### Symposium Session 6
#### Equine Reproduction
Chairperson: Tom Stout (The Netherlands)

| S21 | Photoperiodic and metabolic signals in seasonality of equine reproduction  
(Barry Fitzgerald, University of Kentucky, Lexington) |
| S22 | Follicular development in mares  
(Hanne Gervi Pedersen, KVL, Denmark) |
| S23 | Proteins of the early intrauterine equine conceptus  
(M.A. Tony Hayes, University of Guelph, Canada) |
| S24 | Cloning in horse  
(Cesare Galli, Istituto Sperimentale Italiano Lazzaro Spallanzani, Cremona, Italy) |

### Symposium Session 7
#### Artificial Insemination and Related Techniques
Chairperson: Humberto Cisale (Argentina)

| S25 | Application and commercialization of sex selected semen and embryos  
(Detlef Rath, Institute for Animal Breeding, Mariensee, Germany) |
| S26 | Low dose insemination in pigs  
(Juan M. Vazquez, University of Murcia, Spain) |
| S27 | Importance of Breeding Soundness Evaluation (BSE) and semen analysis for estimating bull fertility in dairy and beef breeds  
(John Kastelic, Lethbridge Research Centre, Alberta, Canada) |
| S28 | Sanitary procedures for semen  
(Gary Althouse; School of Vet. Medicine, University of Pennsylvania, USA) |

### Symposium Session 8
#### Molecular Biology of Reproduction
Chairperson: Zsuzsa Bősze (Hungary)

| S29 | Production of transgenic farm animals by viral vector mediated gene transfer  
(Bruce Whitelaw, Roslin Inst, UK) |
| S30 | Use of microarray technology to profile gene expression patterns important in reproduction: progress using bovine arrays  
(Alex Evans, Ireland) |
| S31 | Epigenetic regulation of fetal development in nuclear transfer animal models  
(András Dinnyés, Agricultural Biotechnology Center, Hungary) |
| S32 | Molecular and cellular regulators of gonadal development and function  
(Andrea S. Cupp, Dept of Animal Science, University of Nebraska, Lincoln, USA) |
### Symposium Session 9
**Stress, Diseased State and Reproduction**

**Chairperson:** Robert Gilbert (USA)

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<tr>
<th>Session</th>
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<tbody>
<tr>
<td>S33</td>
<td>Comparative aspects of endotoxin- and cytokine-induced endocrine cascade influencing growth, metabolism and reproduction in farm mammals</td>
<td>(Ted Elsasser, U.S. Department of Agriculture, Growth Biology Laboratory, Beltsville, MD)</td>
</tr>
<tr>
<td>S34</td>
<td>Heat stress and reproduction in ruminants / cattle</td>
<td>(Zvi Roth, University of Jerusalem, Rehovot, Israel)</td>
</tr>
<tr>
<td>S35</td>
<td>Mastitis in postpartum dairy cows</td>
<td>(Satu Pyörälä, University of Helsinki, Faculty of Veterinary Medicine, Finland)</td>
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<tr>
<td>S36</td>
<td>Embryonic and early fetal losses in cattle and other ruminants</td>
<td>(Michael Diskin, Teagasc, Athenry, Co. Galway Ireland)</td>
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### Symposium Session 10
**Porcine Reproduction**

**Chairperson:** Jozsef Ratky (Hungary)

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<tr>
<th>Session</th>
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<tr>
<td>S37</td>
<td>Development of porcine oocyte</td>
<td>(Noboru Manabe, University of Tokyo, Japan)</td>
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<tr>
<td>S38</td>
<td>Energy metabolism and reproduction in gilts and sows</td>
<td>(Richard Barb, R. Russel Agricultural Research Center, Georgia, USA)</td>
</tr>
<tr>
<td>S39</td>
<td>Fertilization and early embryonic development in the Fallopian tube</td>
<td>(Klaus-Peter Brüssow, Research Institute for the Biology of Farm Animals, Dummerstorf, Germany)</td>
</tr>
<tr>
<td>S40</td>
<td>Epigenetic programming of porcine endometrial function</td>
<td>(Frank Bartol, Auburn University, USA)</td>
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### Symposium Session 11
**Endocrine and Paracrine Control of Testicular Function**

**Chairperson:** Heriberto Rodriguez-Martinez (Sweden)

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<tr>
<td>S41</td>
<td>Endocrine regulation of spermatogenesis</td>
<td>(Derek McLean, School of Molecular Biosciences, Washington State University, Pullman, USA)</td>
</tr>
<tr>
<td>S42</td>
<td>Male germ cell transplantation</td>
<td>(Ina Dobrinski, New Bolton Center, School of Veterinary Medicine, PA, USA)</td>
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<tr>
<td>S43</td>
<td>Regulation of puberty in male ruminants</td>
<td>(Norman C. Rawlings, University of Saskatchewan, Western College of Veterinary Medicine, Canada)</td>
</tr>
<tr>
<td>S44</td>
<td>Regulation of the spermatogonial stem cell niche</td>
<td>(Marie-Claude Hofmann, University of Illinois, Urbana, USA)</td>
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### Symposium Session 12

**Oocyte and Embryo Technology**

Chairperson: Ann van Soom (Belgium)

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<tr>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>S45</td>
<td>Factors influencing the oocyte quality beginning at the primordial follicle stage</td>
<td>Pascal Mermillod, INRA, France</td>
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<tr>
<td>S46</td>
<td>In vitro production of pig embryos</td>
<td>Kazuhiro Kikuchi, National Institute of Agrobiology, Tsukuba, Japan</td>
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<tr>
<td>S47</td>
<td>Nuclear transfer in farmed animals: cattle, sheep and deer</td>
<td>Bjorn Oback, Ruakura Research Centre, Hamilton, New Zealand</td>
</tr>
<tr>
<td>S48</td>
<td>Use of freeze-dried somatic cells for nuclear transfer</td>
<td>Lino Loi, University of Teramo, Italy</td>
</tr>
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### Workshops 1-18

**Workshop 1**

**Physiology and Pathology of Postpartum Uterine Involution in Cattle**

Moderator: Martin Sheldon (UK)

Suggested contributors:
Open for application / discussion.

**Workshop 2**

**Improving reproduction in beef cattle**

Moderator: Gabriel Bo (Argentina)

Suggested contributors:
Open for application / discussion.

**Workshop 3**

**Factors Influencing the Embryo Quality**

Moderator: Xiangzhong (Jerry) Yang (University of Connecticut, USA)

Suggested contributors:
Open for application / discussion.

**Workshop 4**

**Imaging techniques in reproduction**

Moderator: Gregg P Adams (University of Saskatchewan, Saskatoon, Canada)

Suggested contributors:
Open for application / discussion.

**Workshop 5**

**Sustainable development in care of reproduction in small ruminants: efforts and perspectives**

Moderator: Dominique Blache (University of Western Australia)

Suggested contributors:
Open for application / discussion.

**Workshop 6**

**Reproduction of Camelidae**

Moderator: Peter Nagy (Dubai / Hungary)

Suggested contributors:
Open for application / discussion.
Workshop 7
Physiology, Clinical Relevance and management of postpartum anovulation in dairy cattle
Moderator: Geert Opsomer (Belgium)
Suggested contributors:
Open for application / discussion.

Workshop 8
Reproductive Physiology and Management of Reproduction in Farmed Cervidae
Moderator: Hannele Säkkinen (Finland)
Suggested contributors:
Open for application / discussion.

Workshop 9
Cryopreservation of gametes and embryo
Moderator: Sandor Cseh (Hungary)
Suggested contributors:
Open for application / discussion.

Workshop 10
Artificial Insemination and Related Methods in Pet Carnivores
Moderator: Bodil Ström Holst (Sweden)
Suggested contributors:
Open for application / discussion.

Workshop 11
International Trade of Semen and Embryos
Moderator: Tom Kroetsch (Semex, Canada)
Suggested contributors:
Open for application / discussion.

Workshop 12
Cutting-Edge Methods for Information Transfer in Reproductive Science
Moderator: Phillip L. Senger (USA)
Suggested contributors:
Open for application / discussion.

Workshop 13
Physiological and management factors affecting expression of estrus in cattle
Moderator: Milo Wiltbank (USA)
Suggested contributors:
Open for application / discussion.

Workshop 14
Zoo and Wild Animal Reproduction
Moderator: Erich Moestl (Austria)
Suggested contributors:
Open for application / discussion.

Workshop 15
Animals as biomedical models in reproductive (and regenerative) medicine
Moderator: Heiner Niemann (Department of Biotechnology, Institute for Animal Breeding, Mariensee, Neustadt, Germany)
Suggested contributors:
Open for application / discussion.
Workshop 16
Recent Progress in Andrological Procedures and Evaluations
Moderator: Peter Chenoweth (Australia)
Suggested contributors:
Open for application / discussion.

Workshop 17
Equine Endometritis
Moderator: Terttu Katila (Finland)
Suggested contributors:
Open for application / discussion.

Workshop 18
Pregnancy, fetal well-being and the peri-parturient dam
Moderator: Marcel A. M. Taverne (The Netherlands)
Suggested contributors:
Open for application / discussion.