

THE GLOBAL STANDARD FOR LIVESTOCK DATA

Network. Guidelines. Certification.

The ICAR "Artificial Insemination and Related Technologies" Working Group: its goals and current projects

Fritz Schmitz-Hsu et al. (2019)

ICAR Artificial Insemination & Related Technologies Working Group

Version 1.2

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Background

- Several hundred million semen units produced worldwide per year
- Ten thousand embryos transferred annually
- Intensive international trading of semen and embryos



Questions and needs

- □ How to produce and label semen units?
- How to record data in context of artificial insemination and embryo transfer?
- \Box How to assess fertility?
- How to facilitate data exchange in this context?
- □ What is currently done?
- What kind of services could ICAR provide?
- □ ...



The topics the working group is adressing

- provide, update and extend universal recommendations in the field of artificial insemination (and embryo transfer), mainly in cattle
 stablish guidelines
- \succ conduct surveys what is currently done \rightarrow learn & document
- ➤ identify new needs in this context → foresee
- propose services ICAR could offer -> suggest
- stimulate and facilitate international collaboration in research and development of all aspects of artificial insemination data recording and evaluating -> promote, collaborate



Current members of the working group

- Olivier Gérard, Allice, France (previously Co-Chair, now Chair)
- Jens Baltissen, Bundesverband Rind und Schwein, Germany
- Mel DeJarnette, Select Sires, USA
- Jos Hooijer, CRV, The Netherlands
- Lamberto Morelli, INSEME SpA, Italy
- Richard Spelman, LIC, New Zealand
- Liga Kubulina, Sigulda, Latvia (new member)
- Eli Sellem, Allice, France (new member)
- A.K. Thiruvenkadan, Veterinary College and Research Institute, Tamil Nadu, India (new member)

Very actively supported by

- Laurent Journaux, ICAR Board, France
- Brian Wickham, ICAR Secretariat, Ireland

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What's in the Guidelines about AI and ET?

- 1. Bovine Semen Straw Marking Information to be printed on the straw, barcoding, breed codes
- 2. Bovine Embryo Production and Transfer Recording of relevant data, parentage assessment, quality control
- 3. Fertility Reporting for Al organisations Measurements/definitions, rules of calculation
- 4. Annexes
 - Incidence of the chosen option for the exclusion of short returns
 - Consideration of cattle reproductive physiology
 - Embryos storage and movements
 - Validation of data
 - Survey results



Recent activities of the working group

- Maintain guidelines
- Update information on what is printed on semen straws
- Conduct a survey on barcoding
- Initiate a project for establishing an International Platform for Semen Information



What's next?

- Establish the International Platform for Semen Information
- Consider new technologies (RFID?, ...)
- Collaborate closer with
 - other bodies of ICAR (Interbull, Animal Data Exchange, etc.)
 - the International Embryo Technology Society (IETS)
 - industry
- Keep the Guidelines up to date and promote them





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Thank you

Via Savoia 78, esc.A, int.3, piano 1 I–00198 Rome, Italy tel. +39 - (0)685 127 231 / (0)685 237 fax : +39 - (0)623 315 553 www.icar.org