

# **AMERICAN EMBRYO TRANSFER ASSOCIATION CERTIFICATION PROGRAM**

## **Recommended Reference Material for AETA Certification Examination**

### [AMERICAN EMBRYO TRANSFER ASSOCIATION CERTIFICATION GUIDELINES](#)

Be sure to review the latest revision since they are modified as the board of directors deems it necessary.

### [MANUAL OF THE INTERNATIONAL EMBRYO TECHNOLOGY SOCIETY](#)

The IETS publishes a manual with guidelines for general procedures for bovine and small ruminant embryo transfer, minimum standards for hygienic handling of embryos, an updated summary of results on embryo–pathogen interactions, and recommended standardization methods of labeling of containers of frozen embryos.

### [AETA HANDOUT ON LABELING STRAWS, CANES, AND GOBLETS](#)

An illustrated handout that includes changes made by the IETS since their manual was last printed and AETA recommendations that go beyond the IETS requirements.

### [AETA ANNUAL CONVENTION PROCEEDINGS](#)

These proceedings contain valuable information needed in the operation of an embryo transfer business plus technical data on subjects such as superovulation, embryo freezing, and embryo cloning. It is recommended to search the following key words and use those articles as study guides: Cryopreservation, Small Ruminant, Endocrinology, Superovulation, In-Vitro Embryo Production.

### [IETS ANNUAL MEETING PROCEEDINGS](#)

The proceedings have especially good reviews on various aspects of embryo transfer for a variety of species. Proceedings are available online ([www.iets.org](http://www.iets.org)) for society members or can be purchased through IETS.

### [AETA TEACHING MODULES](#)

### [EMBRYO TRANSFER TRAINING COURSE MANUALS](#)

Courses are available from universities, organizations, and private companies. The handouts used in the American Association of Bovine Practitioners seminar titled AABP Edwin Robertson Beginning Embryo Transfer Seminar are updated regularly and available to AETA members by contacting the seminar coordinator, Randall Hinshaw, Ashby Genetics, 2420 Grace Chapel Rd., Harrisonburg, VA 22801-4557, [randall@ashbygenetics.com](mailto:randall@ashbygenetics.com), Phone: (540) 246-2697.

### [EMBRYO TRANSFER IN DAIRY CATTLE](#)

Seidel, Elsden, and Hasler (2003) Hoard's Dairyman. 96 pp. Available from the online bookstore at [www.hoards.com](http://www.hoards.com).

### [TEXTBOOKS TO REVIEW REPRODUCTIVE ANATOMY AND PHYSIOLOGY \(INCLUDING ENDOCRINOLOGY\)](#)

Good ones include the following:

*McDonalds Veterinary Endocrinology & Reproduction*, M. H. Pineda (editor), 5th edition (2002), Iowa State Press  
*Reproduction in Farm Animals*, E. S. E. Hafez (editor), 7th edition (2000), Lippincott Williams & Wilkins  
*Pathways to Pregnancy and Parturition*, P. L. Senger, 2nd edition (2003), Current Conceptions

### [PROCEDURES FOR RECOVERY, BISECTION, FREEZING, AND TRANSFER OF BOVINE EMBRYOS](#)

R. P. Elsden and G. E. Seidel Jr., 6th edition (1990), Colorado State University, Animal Reproduction Laboratory. Order form available at [www.cvmb.colostate.edu](http://www.cvmb.colostate.edu).

## **IVF STUDY MATERIALS**

[Overview of IVF as it Relates to AETA Certification](#)

## **JOURNAL PUBLICATIONS**

Tanghe, S., A. Van Soom, H. Nauwynck, M. Coryn, and A. De Druif. 2002. [Minireview: Functions of the Cumulus Oophorus During Oocyte Maturation, Ovulation, and Fertilization](#). Molecular Reproduction and Development. 61:414-424.

Ward, F., B. Enright, D. Rizos, M. Boland, and P. Lonergan. 2002. [Optimization of in vitro bovine embryo production: effect of duration of maturation, length of gamete co-incubation, sperm concentration and sire](#). Theriogenology. 57: 2105-2117.

Looney, C.R., B.R. Lindsey, C.L. Gonseth, and D.L. Johnson. 1994. [Commercial aspects of oocyte retrieval and in vitro fertilization \(IVF\) for embryo production in problem cows](#). Theriogenology. 41: 67-72.

Bousquet, D., H. Twagiramungu, N. Morin, C. Brisson, G. Carboneau, and J. Durocher. 1999. [In vitro embryo production in the cow: An effective alternative to the conventional embryo production approach](#). Theriogenology. 51: 59-70.

Boni, R. 2012. [Ovum pick-up in cattle: a 25 yr retrospective analysis](#). Anim. Reprod. 9: 362-369.

Pontes, J.H.F., I. Nonato-Junior, B.V. Sanches, J.C. Ereno-Junior, S. Uvo, T.R.R. Barreiros, J.A. Oliveira, J.F. Hasler, and M.M. Seneda. [Comparison of embryo yield and pregnancy rate between in vivo and in vitro methods in the same Nelore \(Bos indicus\) donor cows](#). Theriogenology. 71: 690-697.

Carter, J.A., S. Bellow, M. Meintjes, O. Perez, E. Ferguson, and R.A. Godke. [Transvaginal ultrasound-guided oocyte aspiration for production of embryos in vitro](#). 2002. Arch. Tierz., Dummerstorf. 45: 99-108.