Curriculum Vitae of Professor Gábor Vajta

Personal Data

Name	Gábor Vajta
Citizenship:	Australian and Hungarian
Mailing address:	Twenty Slate Close, Brinsmead, Cairns, QLD-4870 Australia
Phone:	+61 -7 4034 3859
Email	gabor.vajta@jcu.edu.au; gabor.vajta@hotmail.com

Education

University:	Semmelweis University School of Medicine, Budapest, Hungary, 1970-1976.
Degree:	MD ("summa cum laude", 1976)
Specialisation:	Human Pathological Anatomy and Histopathology, 1979 (Budapest).
Other degrees:	PhD (Hungarian Academy of Sciences, Budapest) 1988
	DSc (The Royal Veterinary and Agricultural University, Copenhagen) 1999

Workplaces and positions (current)

2009-	Vajta Embryology Consulting, Rakosi and Vajta Trust,
2009-	Consulting Senior Scientist, Beijing Genomics Institute, Research Centre Shenzhen, China
2009-	Consulting Senior Scientist, Institute of Genetics and Biotechnology, Faculty of Agricultural Sciences, University of Aarhus, Denmark
2009-	Affiliated Professor, James Cook University, Queensland, Australia
2006-	Honorary Professor of the Beijing Institute of Genomics, Chinese Academy of Sciences, Beijing, China.
2002-	Affiliated Professor of the Royal Veterinary and Agricultural University (KVL), Copenhagen, Denmark (New name from 2007: University of Copenhagen)

Workplaces and positions (past)

2007-2009	Academic Director at PIVET Medical Centre, Leederville, Perth, Australia
2001-2007	Senior Scientist at the Group of Population Genetics and Embryology Leader of the Cloning Team, Department of Genetics and Biotechnology Danish Institute of Agricultural Sciences, Research Centre, Foulum, Denmark (New name from 2007: Institute of Genetics and Biotechnology, Faculty of Agricultural Sciences, University of Aarhus, Foulum, Denmark)
1999-2001	Senior Research Fellow Centre for Early Human Development Monash Institute of Reproduction and Development, Monash University Melbourne, Australia
1997-1999	Associate Professor at Section of Reproduction, Department of Clinical Studies, KVL, Copenhagen to work at Embryo Technology Centre, Danish Institute of Agricultural Sciences, Research Centre Foulum, Denmark
1994-1997	Research Associate at Department of Clinical Studies, Section of Reproduction, KVL, Copenhagen, to work at Embryo Technology Centre, Danish Institute of Agricultural Sciences, Research Centre Foulum, Denmark
1994	Senior Research Associate of the Faculty of Animal Breeding, Pannon University School of Agriculture, Kaposvár.
1989-1993	Project Director of the Bovine In Vitro Fertilisation (IVF) Laboratory of the Agricultural Biotechnology Centre, Gödöllõ, Hungary.
1989-92	Deputy Director of the Institute for Animal Sciences, Agricultural Biotechnology Centre, Gödöllõ, Hungary
1976-1989:	Assistant, then Associate Professor of the 1st Institute of Pathology and Experimental Cancer Research, Semmelweis University School of Medicine, Budapest, Hungary.
1982-1989:	Project Director of the Experimental Liver Pathology laboratory.

1982-1983 Visiting Scientist (6 months) in Laboratory of Biochemistry of Connective Tissue, University Paris Val de Marne, France.

1987-1988 Visiting Scientist (15 months) in Department of Biochemistry, Mount Sinai Medical Centre, New York, USA.

Experience and research areas in human pathology, molecular biology, and immunology

Anatomical pathology

More than 2.000 autopsies performed

More than 20.000 autopsies observed and/or supervised

Histopathology

Approximately 10.000 biopsies and autopsy samples diagnosed

Extensive knowledge in special diagnostic tools including electron microscopy (transmission and scanning EM), immunohistochemistry, fluorescent, polarized microscopy, microphotography (illustrations for books)

Experimental pathology

In vitro models for liver diseases (subject of PhD)

Rat and human liver cell isolation and in vitro culture

Transplantable tumours of rats and mice

Handling and treating experimental animals

Molecular biology, cell and tissue culture

All basic methods of molecular biology

Isolation and culture of primary cultures and cell lines; culture of organs

Experience in education

Lectures and practical demonstrations for medical students in Budapest (25 university semesters)

Postgraduate courses for pathologists and internists in Budapest

Verbal examination (medical students) in Budapest

Lectures and practical demonstrations for veterinary students in Copenhagen and Foulum.

Postgraduate courses for embryologists in Brazil (3x), Chile, China (2x), Colombia, Denmark, Hungary(5x), Italy,Japan, Singapore, and Spain

Other scientific activities

Author or editor of 5 books and theses

Inventor in 5 patent applications

Author or co-author of 161 peer reviewed articles or book chapters and more than 112 published conference abstracts (*see list below*)

Reviewer of journals including

Human Reproduction; Reproductive Biomedicine Online; Reproduction; Biology of Reproduction, Cryobiology; Reproduction, Nutrition, Development; Reproduction, Fertility and Development; Theriogenology; Animal Reproduction Science; Reproduction in Domestic Animals, Cellular Reprogramming, etc.

Ad hoc scientific advisor of the Commission of the European Communities, Agricultural Section (Brussels, Belgium)

Member of the Editoral Board of the journal "Cellular Reprogramming" (formerly "Cloning and Stem Cells") since 2000.

Achievements in embryology (either personal or by supervised students)

Establishment of a new incubation method specially designed for the
requirement of embryo production (Submarine Incubation System, SIS)
Investigation of the effect of factors (pH, pressure) on the development of embryos;

Participation in establishment of a bovine in vitro embryo production system with
an overall efficiency of more than above 50% blastocyst/oocyte rate (among the highest published so far)

Comparative analysis of the effect of different biopsy and assisted hatching technologies
on the freezability and further development of embryos;
Routine manual biopsy and vitrification of in vitro or in vivo produced bovine embryos; cryopreservation of embryos by vitrification for direct transfer;
Ultrastructural analysis of morphological changes in embryos and oocytes
ollowing vitrification;

Establishment of a new vitrification method (Open Pulled Straw, OPS)
which is one of most efficient way of cryopreservation of pre-compaction and pre-implantation in vitro and in vivo produced bovine embryos, porcine preimplantation embryos, cytoplasts and oocytes,
as well as human oocytes, embryos and embryonic stem cells.

Establishment of a culture system for embryo development after hatching in vitro
(Post-hatching Development, PHD system)

Establishment of a new embryo culture method (Well of the Well, WOW)
the most efficient way for culturing single embryos or low number of embryos together, as well as embryos with damaged zona or zona-free embryos.
Human application results in considerable improvement of blastocyst and pregnancy rates.

Establishment of a highly efficient parthenogenetic activation and embryo culture system in cattle and pigs
producing up to 60 and 85% blastocyst per oocyte rates, respectively

Establishment of a new somatic cell nuclear transfer method for mammals
(Handmade cloning; HMC) the most efficient cloning method used so far. Pregnancies and offspring in numerous countries of 5 continents have already been achieved,.
Production of the first cloned animal of Africa and Scandinavia.
Transgenic pigs as models for various human diseases were produced with putative genes responsible for Parkinson and Alzheimer disease, Psoriasis, Arteriosclerosis and Diabetes Mellitus.
The technology may mean a new possibility for automation of the somatic cell nuclear transfer procedure.
The birth of the first transgenic piglets containing the Alzheimer gene (29th October, 2006}
was rewarded as the *Most important Scientific Achievement in Denmark in 2007.*

Establishment of pregnancy with cryopreserved handmade cloned porcine embryos
Birth of first (in the world) piglets on 29th October, 2006

Contribution in exploitation of stress for stress tolerance principle in embryology by testing the effect of High Hydrostatic Pressure (HHP) and osmotic stress to increase cryosurvival, fertilizing ability and developmental competence of oocytes, spermatozoa and embryos.

Contribution in establishment of a compact timelapse embryo monitoring system (Primo Vision) that is the most cost-effective way to monitor embryo development in vitro during the whole preimplantation

period, and may dramatically improve the efficiency of embryo selection, consequently pregnancy and birth rates in humans.

Ongoing collaborations (only main partners listed)

BGI, Shenzhen, China (Dr. Yutao Du; Prof. Huanming Yang; Prof. Lars Bolund)

University of Aarhus, Denmark; Faculty of Agricultural Sciences (Prof. Henrik Callesen)

University of Aarhus, Denmark; Department of Human Genetics (Prof. Lars Bolund)

University of Aarhus, Denmark; Institute of Exp. Clinical Research (Prof. Jens C. Djurhuus)

University of Copenhagen, Denmark; Institute of Anatomy (Prof. Poul Hyttel)

Embryonics International, Singapore (Prof. Soon Chye Ng)

Reproductive Biology Associates, Atlanta, Georgia USA (Dr. Peter Z. Nagy)

G.E.N.E.R.A. Associazione Professionale, Rome, Italy (Dr. Laura Rienzi, Dr. Filippo Ubaldi)

IVI, Valencia, Spain (Dr. Ana Cobo)

Sydney IVF, Sydney, NSW, Australia (Dr. Teija Peura)

Australian Reproductive Technologies, Rockhampton, QLD, Australia (Dr. Simon Walton)

Cryo-Innovation Ltd, Budapest, Hungary (Dr. Csaba Pribenszky)

Kaáli Institute, Győr, Hungary (Dr. Tamás Kőrösi)

Kaáli Institute, Budapest, Hungary (Dr. Szabolcs Mátyás)

Forgács Institute, Budapest, Hungary (Dr. Vince Forgács, Dr. Anikó Reichart)

Publications of Professor Gábor Vajta

Total listed below: **273** **(including books, book chapters, patents, abstracts)**

Total in Web of Science **140**
Sum of times cited **2.506**
Average per publ. **17.9**
H index (June 28, 2010) **25**

Total in PubMed: **107**

Books, theses (5)

Guest Editor of Theriogenology, Vol. 67, issue 1, 2007: Proceedings of IETS Pre-Conference Symposia Kyoto, Japan, 6 January, 2007.

VAJTA, G. (1989): Experimental in vitro models for liver diseases. PhD Thesis. Hungarian Academy of Sciences, Budapest, Hungary (*in Hungarian*).

VAJTA, G. (1997): Bovine in vitro embryo production, biopsy and cryopreservation. Recent advancements. Doctor of Veterinary Sciences Thesis. KVL, Copenhagen, Denmark.

VAJTA, G. (2003): Attack of the Cloners. Scientia, Budapest. 110 pages (*in Hungarian*)

VAJTA, G. (2004): Confessions of a Cloner. Noran, Budapest. 320 pages, 50 pictures and an educational video on CD (*in Hungarian*)

Publications on the field of embryology

1. International Patents (5)

DEMTEK A/S, VAJTA, G. (1997): Method and apparatus for culturing cells and tissues. PCT International Application No DK97/0001, filing/priority date January 7, 1997.

DEMTEK A/S, VAJTA, G. (1998): Method and auxiliaries for cryopreservation of biological material such as egg cells. PCT International Application No DK98/00375, filing/priority date: September 3, 1998.

DANISH INSTITUTE OF AGRICULTURAL SCIENCES, VAJTA, G. (2000): New method for embryo culture, the Well of the Well system. PCT International Application (submitted in May, 2000)

I. M. LEWIS, G. VAJTA, T. TECIRIOGLU (innovators), MONASH UNIVERSITY, MELBOURNE, VIC, AUSTRALIA (applicant): A method for nuclear transfer. PCT International Application No 4AU02/00491

AARHUS UNIVERSITY AND DANISH INSTITUTE OF AGRICULTURAL SCIENCES, DU, Y., KRAGH P.M., BOLUND, L., VAJTA, G. (2005): Cell nuclear transfer. P1094DK00 (submitted September, 2005).

2. Journal articles, book chapters (in English; 124

VAJTA, G., MACHÁTY, Z., BÁRÁNDI, ZS., VARGA, ZS. (1992): Embryos derived from in vitro fertilization of oocytes of pregnant cows. Theriogenology 37: 811-816.

BÁRÁNDI, ZS., VAJTA, G., MACHÁTY, Z., VARGA, ZS., CSEH, S., SOLTI, L.(1992): In vitro fertilization as a new tool of preserving the Hungarian Grey Cattle. In: Alderson, L. and Bodó, I., eds,: Genetic Conservation of Domestic Livestock Vol. II. pp. 271-274. C.A.B. International, Wallingford, UK.

MACHÁTY, Z., VAJTA, G., BÁRÁNDI, ZS., SOLTI, L. (1992): Developmental potential of biopsied preimplantation bovine embryos produced in vitro. ARTA Assisted Reproduction Technology and Andrology 3: 249-256.

BÁRÁNDI, ZS., SOLTI, L., CSEH, S., VARGA, ZS., MACHÁTY, Z., VAJTA, G. (1993): Comparison of bulls of the endangered Hungarian Grey cattle breed concerning their fertilizing ability in vitro. Anim. Reprod. Sci. 31: 13-19.

MACHÁTY, Z., PÁLDI, A., CSÁKI, T., VARGA, ZS., KISS, I., BÁRÁNDI, ZS., VAJTA, G. (1993): Biopsy and sex determination by PCR of IVF bovine embryos. Journal of Reproduction and Fertility 98: 467-470.

VARGA, ZS., BÁRÁNDI, ZS., VAJTA, G., MACHÁTY, Z. SOLTI, L., CSEH, S., SEREGI, J. (1993): In vitro fertilization in Hungarian Grey Cattle. Reproduction in Domestic Animals 28: 252-257.

VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1995): Direct in-straw rehydration after thawing of vitrified in vitro produced bovine blastocysts. Veterinary Record 137: 672.

VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1996): Overall efficiency of in vitro embryo production and vitrification in cattle. Theriogenology 45: 683-689.

VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1996): Factors affecting survival rates of in vitro produced bovine embryos after vitrification and direct in-straw dilution. Animal Reproduction Science 45: 191-200.

VAJTA, G. (1997): Vitrification of bovine oocytes and embryos. Embryo Transfer Newsletter 15 (2): 12-18.

VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1997): Comparison of two manipulation methods to produce in vitro fertilized, biopsied and vitrified bovine embryos.Theriogenology 47: 501-509.

VAJTA, G., BOOTH, P.J., HOLM, P., GREVE, T., CALLESEN, H. (1997): Successful vitrification of early stage bovine in vitro produced embryos with the open pulled straw (OPS) method. Cryo-Letters 18: 191-195.

VAJTA, G., HYTTEL, P., CALLESEN, H. (1997): Morphological changes of in vitro produced bovine blastocysts after vitrification, in-straw direct rehydration and culture. Molecular Reproduction and Development 48: 9-17.

VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1997): Survival and development of in vitro produced bovine blastocysts following assisted hatching, vitrification and in-straw direct rehydration. Journal of Reproduction and Fertility 111: 65-70.

VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1997): The Submarine Incubation System, a new tool for in vitro embryo culture. A technique report. Theriogenology 48: 1379-1385

VAJTA, G., BOOTH, P.J., HOLM, P., JACOBSEN, H., GREVE, T., CALLESEN, H. (1997): The use of vitrified Day 3 embryos as donors in bovine nuclear transfer. Cryo-Letters 18: 355-358.

VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1997): Vitrification of porcine embryos using the Open Pulled Straw (OPS) method. Acta veterinaria scandinavica 38: 349-352.

BOOTH, P.J., VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1997): Vitrification and post-thaw in vitro survival of cloned bovine embryos. Veterinary Record 140: 404.

VAJTA, G., KUWAYAMA, M., HOLM, P., BOOTH, P.J., JACOBSEN, H., GREVE, T., CALLESEN, H. (1998): A new way to avoid cryoinjuries of mammalian ova and embryos: the OPS vitrification. Molecular Reproduction and Development 51: 53-58. (*230 citations, Dec. 17, 2007*)

VAJTA, G., LEWIS, I.M., KUWAYAMA, M., GREVE, T., CALLESEN, H.(1998): Sterile application of the Open Pulled Straw (OPS) vitrification method. Cryo-Letters 19: 389-392.

HOLM, P., SHUKRI, N. M., VAJTA, G., BOOTH, P., BENDIXEN, C., CALLESEN, H. (1998): Developmental kinetics of the first cell cycles of bovine in vitro produced embryos in relation to their in vitro viability and sex. Theriogenology 50: 1285-1299.

HUNTER, R.H.F., VAJTA, G., Hyttel, P. (1998): Long-term stability of the bovine block to polyspermy. Journal of Experimental Zoology 280: 182-188.

HYTTEL, P., THOMSEN, P. D. HAY-SCHMIDT, A., LAURINCIK, J., VIUFF, D., TERKELSEN, O., VAJTA, G., FAIR, T., CALLESEN, H., GREVE, T. (1998): Activation of the ribosomal RNA genes in pre-implantation bovine embryos. Reproduction in Domestic Animals 33: 331-342.

HYTTEL, P., VIUFF, D., LAURINCIK, J., AVERY, B., KING, W.A., FAIR, T., THOMSEN, P.D., HAY-SCHMIDT, A., VAJTA, G., CALLESEN, H., OCHS, R.L., GREVE, T. (1998): Ribosomal RNA gene activation in pre-implantation bovine embryos. Gametes: Development and Function, A. Lauria, F. Gandolfi, G. Enne, L. Gianaroli, eds., Serono Symposia, Rome, Italy, pp. 417-438.

VIUFF, D., HYTTEL, P., AVERY, B., VAJTA, G., GREVE, T., CALLESEN, H., THOMSEN, P. D. (1998): Ribosomal ribonucleic acid is transcribed at the 4-cell stage in in vitro produced bovine embryos. Biology of Reproduction 59: 626-631.

VAJTA, G., MURPHY, C., MACHÁTY, Z., PRATHER, R.S., GREVE, T., CALLESEN, H. (1999): In-straw dilution of in vitro produced bovine blastocysts after vitrification with the Open Pulled Straw (OPS) method. Veterinary Record 144: 180-181.

VAJTA, G., RINDOM, N., PEURA, T.T., HOLM, P., GREVE, T., CALLESEN, H. (1999): The effect of media, serum and temperature on the in vitro survival of bovine blastocysts after Open Pulled Straw vitrification. Theriogenology 52: 939-948.

BOOTH, P. J., VAJTA, G., HØJ, A., HOLM, P., JACOBSEN, H., GREVE, T., CALLESEN, H. (1999): Full-term development of nuclear transfer calves produced from Open Pulled Straw (OPS) vitrified cytoplasts. Theriogenology 51: 999-1006.

HOLM, P., VAJTA, G., MACHÁTY, Z., SCHMIDT, M., PRATHER, R. S., GREVE, T., CALLESEN, H. (1999): Open Pulled Straw (OPS) vitrification of porcine blastocysts: simple procedure yielding excellent in vitro survival, but so far no piglets following transfer. Cryo-Letters 20: 307-310.

PEURA, T.T., LANE, M.W., VAJTA, G., TROUNSON, A.O. (1999): Cloning of bovine embryos from vitrified donor blastomeres. Journal of Reproduction and Fertility 116: 95-101.

VAJTA, G. (2000): Oocyte and embryo vitrification. Reproduction in Domestic Animals Supplement 6: 45-48.

VAJTA, G. (2000): Vitrification of the oocytes and embryos of domestic animals. Animal Reproduction Science 60-61: 357-364.

VAJTA, G. (2000): Cryopreservation of oocytes and in vitro produced embryos. Arquivos da Faculdade de Veterinária UFRGS, 28 (Supplement): 80-88.

VAJTA, G., PEURA, T.T., HOLM, P., PÁLDI, A., GREVE, T., TROUNSON, A.O., CALLESEN, H. (2000): A new method for culture of zona-included or zona-free embryos: the Well of the Well (WOW) system. Molecular Reproduction and Development 55: 256-264.

HYTTEL, P., VAJTA, G., CALLESEN, H. (2000): Vitrification of bovine oocytes with the Open Pulled Straw method: Ultrastructural consequences. Molecular Reproduction and Development 56: 80-88.

JACOBSEN, H., SCMIDT, M., HOLM, P., SANGILD, P.T., VAJTA, G., GREVE, T., CALLESEN, H. (2000): Body dimensions, birht and organ weights of calves derived from in vitro produced embryos cultured with or without serum and oviduct epithelium cells. Theriogenology 53:1761-1769.

VAJTA, G., LEWIS, I.M., HYTTEL, P., THOUAS, G.A., TROUNSON, A.O. (2001): Somatic cell cloning without micromanipulators. Cloning 3: 89-95.

BOOTH, P. J., HOLM, P., VAJTA, G., GREVE, T, CALLESEN, H. (2001): Effect of two activation treatments and age of blastomere karyoplasts on in vitro development of bovine nuclear transfer embryos. Molecular Reproduction and Development 60:377-383.

ISACHENKO, V., ALABART, J.L., NAWROTH, F., ISACHENKO, E., VAJTA, G., FOLCH, J. (2001) The Open Pulled Straw vitrification of ovine GV-oocytes: positive effect of rapid cooling or rapid thawing or both? Cryo-Letters 22: 157-162.

REUBINOFF, B.E., PERA, M. F., VAJTA, G., TROUNSON, A.O. (2001): Effective cryopreservation of human embryonic stem cells by the open pulled straw vitrification method. Human Reproduction 16: 10, 2187-2194.

CALLESEN, H. VAJTA, G., GREVE, T., MADDOX-HYTTEL, P. (2002): Reproductive technologies in farm animal breeding and production. DIAS Report no. 38 Animal Husbandry, Danish Institute of Agricultural Sciences, 77-84.

VIEIRA, A.D., MEZZALIRA, A., BARBIERI, D.P., LEHMKUHL, R.C., RUBIN, M.I.B., VAJTA, G. (2002): Calves born after OPS vitrification of immature bovine oocytes Cryobiology 45:91-94.

VAJTA, G. (2003): Vitrification of domestic animal embryos. Proceedings of the 5th World Conference of A-PART, Tokyo, Japan, pp. 133-138.

VAJTA, G., LEWIS, I.M., TROUNSON, A.O., PURUP, S., MADDOX-HYTTEL, P., SCHMIDT, M., PEDERSEN, H.G., GREVE, T., CALLESEN, H. (2003): Handmade somatic cell cloning in cattle: analysis of factors contributing the high efficiency in vitro. Biology of Reproduction 68: 571-578.

BERTHELOT, F., MARTINAT-BOTTE, F., VAJTA, G., TERQUI, M. (2003): Cryopreservation of porcine embryos: state of the art. Livestock Production Science 83: 73-83.

CRICHTON. E.G., MILLER, A., ARMSTRONG, D.L., GRAHAM, L.H., BEDOWS, E., GJORRET, J.O., HYTTEL, P., POPE, C.E., VAJTA, G., LOSKUTOFF, N.M. (2003):Efficacy of Porcine Gonadotropins for Repeated Stimulation of Ovarian Activity for Oocyte Retrieval and in vitro Embryo Production and Cryopreservation in Siberian Tigers (*Panthera tigris altaica*) Biology of Reproduction 68: 105-113.

ISACHENKO, V., FOLCH, J., NAWROTH, F., ISACHENKO, E., KRIVOKHARCHENKO, A., VAJTA, G., DATTENA, M., ALABART, J.L. (2003): Double vitrification of rat embryos at different developmental stages using an identical protocol. Theriogenology 60: 445-452.

MADDOX-HYTTEL, P., ALEXOPOULOS, N.I., VAJTA, G., LEWIS, I.M., ROGERS, P., CANN, L., CALLESEN, H., TWEDEN-NYBORG, P., TROUNSON, A. (2003) Immunohistochemical and ultrastructural characterization of the initial post-hatching development of bovine embryos. Reproduction 125: 607-623.

MADDOX-HYTTEL, P., GJØRRET, J.O., VAJTA, G., ALEXOPOULOS, N.I., LEWIS, I., TROUNSON, A., VIUFF, D., LAURINCIK, J., THOMSEN, P., D.(2003): Morphological assessment of pre-implantation embryo quality in cattle. Reproduction, Supplement, 61: 103-116.

PEURA, T., T., VAJTA, G. (2003): A comparison of established and new approaches in ovine and bovine nuclear transfer. Cloning and Stem Cells 5: 257-277.

TECIRLIOGLU, R.T., FR, A.J., LEWIS, I.M., VAJTA, G., KORFIATIS, N.A., HALL, V.J., RUDDOCK, N.T., COONEY, M.A., TROUNSON, A.O. (2003). Birth of a cloned calf derived from a vitrified hand-made cloned (HMC) embryo: a technical report. Reproduction, Fertility and Development 15: 361-366.

VAJTA, G., ALEXOPOULOS, N.I., CALLESEN, H. (2004): Rapid growth and elongation of bovine blastocysts in vitro in a three-dimensional gel system. Theriogenology 62: 1253-1263.

VAJTA, G., BARTELS, P., JOUBERT, J., DE LA REY, M., TREADWELL, R., CALLESEN, H. (2004): Production of a healthy calf by somatic cell nuclear transfer without micromanipulators and carbon dioxide incubators using the Handmade Cloning (HMC) and the Submarine Incubation System (SIS). Theriogenology 62: 1465-1472.

KRAGH, P.M., VAJTA, G., CORYDON, J., BOLUND, L., CALLESEN, H (2004):. Production of transgenic porcine blastocysts by handmade cloning. Reprod. Fertil. Dev. 16: 1-4.

LEWIS, I.M., FRENCH, A.J., TECIRLIOGLU, R.T., VAJTA, G., MCCLINTOCK, A.E., NICHOLAS, K.R., ZUELKE, K.A., HOLLAND, M.K., TROUNSON, A.O. (2004): Commercial aspects of cloning and genetic modification in cattle. The Australian Journal of Experimental Agriculture 44: 1105-1111.

TECIRLIOGLU, R.T., COONEY, M.A., LEWIS, I.M., KORFIATIS, N.A., HODGSON R., RUDDOCK, N.T., VAJTA, G., DOWNIE, S., TROUNSON, A.O., HOLLAND, M.K., FRENCH, A.J.(2004): A comparison of two approaches to nuclear transfer in the bovine: Hand-made cloning (HMC) with modifications and the conventional nuclear transfer. Reproduction, Fertility and Development 17: 573-585.

VAJTA, G. (2005): Domestic Animal Embryology: are we on the right track? SBTE (Brasilian Embryo Transfer Society) Newsletter 22: 6-9 (in Portuguese)

VAJTA, G., KRAGH, P.M., MTANGO, N.R., CALLESEN, H. (2005): Handmade Cloning approach: potentials and limitations. Reproduction Fertility and Development 17: 97-112.

VAJTA, G., MADDOX-HYTTEL, P., SKOU, C.T., TECIRLIOGLU T., PEURA T.T., LAI, L., MURPHY, C.N., PRATHER, R.S., KRAGH, P.M., CALLESEN, H. (2005): Highly efficient and reliable chemically assisted enucleation method for handmade cloning (HMC) in cattle. Reproduction, Fertility and Development 17: 791-797.

ALEXOPOULOS, N.I., VAJTA, G., MADDOX-HYTTEL, P., FRENCH, A.J., TROUNSON, A.O. (2005): Stereomicroscopic and histological examination of bovine embryos following extended in vitro culture. Reproduction, Fertility and Development17: 799-808.

BHOJWANI, S., VAJTA, G., CALLESEN, H., ROSCHLAU, K., KUWER, A., BECKER, F., TORNER, H., KANITZ, W., POEHLAND, R. (2005): Developmental competence of HMC(TM) derived bovine cloned embryos obtained from somatic cell nuclear transfer of adult fibroblasts and granulosa cells. Journal of Reproduction and Development 51: 465-75.

DU, Y., KRAGH, P.M., ZHANG, X., YANG, H., BOLUND, L., VAJTA, G (2005): High Overall in vitro Efficiency of Porcine Handmade Cloning Combining Oocyte Trisection with Sequential Culture. Cloning and Stem Cells 7: 199-205.

KRAGH, P.M., DU, Y., CORYDON, J., PURUP, S., BOLUND, L., VAJTA, G. (2005): Efficient in vitro production of porcine blastocysts by handmade cloning with combined electric and chemical activation. Theriogenology 64: 1536-45.

KUWAYAMA, M., VAJTA, G., KATO, O., LEIBO, S. P. (2005): Highly efficient vitrification method for cryopreservation of human oocytes. Reproductive BioMedicine Online 11: 300-8.

KUWAYAMA, M., VAJTA, G., IEDA, S, KATO, O. (2005): Comparison of open and closed methods for vitrification of human embryos and the elimination of potential contamination. Reproductive BioMedicine Online 11: 608-614.

PEDERSEN, H.G, SCHMIDT, M., SANGILD, P.T., STROBECH, L., VAJTA, G., CALLESEN, H., GREVE, T. (2005): Clinical experience with embryos produced by Handmade Cloning. Molecular and Cellular Endocrinology 234: 137-43

VAJTA, G., LEWIS, I.M., TECIRLIOGLU, T.R. (2006): Handmade somatic cell cloning in cattle. In: "Nuclear Transfer Protocols: Cell Reprogramming and Transgenesis"; (Eds.: P.J. Verma and A.O. Trounson). Methods in Molecular Biology, Vol. 348. Humana Press, Totowa, NJ, USA. pp. 183-195.

VAJTA, G., KUWAYAMA, M. (2006): Improving cryopreservation systems. Theriogenology 65: 236-244.

VAJTA, G., GJERRIS, M. (2006): Science and technology of farm animal cloning: state of the art. Animal Reproduction Science 92: 211-230.

VAJTA, G., NAGY, ZS. P. (2006): Are programmable freezers still needed in the embryo laboratory? Reproductive BioMedicine Online 12:779-796.

HENG, B.C., STOJKOVIC, M., VAJTA, G., CAO, T. (2006): Mammalian oocyte polarity can be exploited for the automation of somatic cell nuclear transfer (SCNT) in the development of a 'cloning biochip'. Medical Hypotheses 67: 420-421.

LI, J., DU, Y., ZHANG, Y.H., KRAGH, P.M., PURUP, S., BOLUND, L., YANG, H., XUE, Q.Z., VAJTA, G. (2006): Chemically assisted handmade enucleation of porcine oocytes. Cloning and Stem Cells 4: 241-250.

VEJLSTED, M., DU, Y., VAJTA, G., MADDOX-HYTTEL, P. (2006): Post-hatching development of the porcine and bovine embryo – defining criteria for expected development in vivo and in vitro. Theriogenology 65: 153-165.

VAJTA, G. (2007): Handmade cloning: the future way of nuclear transfer? Trends in Biotechnology 25: 250-253.

VAJTA, G. (2007) Somatic cell nuclear transfer in its first and second decades. Successes, setbacks, paradoxes and perspectives. Reproductive BioMedicine Online15: 582-590.

VAJTA, G., ZHANG, Y., MACHATY, Z. (2007): Somatic cell nuclear transfer in pig: recent achievements and future possibilities. Reproduction, Fertility and Development 19: 403-23.

VAJTA, G. (2007): Vitrification in animal reproduction: vitrification of embryos using open pulled straws (OPS). In: Vitrification in Assisted Reproduction, Tucker, M.J., Liebermann, J., eds., Informa Healthcare, Oxon, UK, pp. 65-74.

VAJTA, G., KUWAYAMA, M., VANDERZWALMEN, P. (2007): Disadvantages and benefits of vitrification. In: Vitrification in Assisted Reproduction, Tucker, M.J., Liebermann, J., eds., Informa Healthcare, Oxon, UK, pp. 33-45.

DU, Y., ZHANG, Y., LI, J., KRAGH, P.M., ZHANG, X., YANG, H., BOLUND, L., VAJTA, G. (2007): Simplified cryopreservation of porcine cloned blastocysts. Cryobiology 54: 181-187.

DU, Y., KRAGH, P.M., ZHANG, Y., LI, J., SCHMIDT, M., BØGH, I.B., ZHANG, X., PURUP, S., JØRGENSEN, A.L., PEDERSEN, A.M., VILLEMOES, K., YANG, H., BOLUND, L., VAJTA, G. (2007): Piglets born from handmade cloning. Theriogenology 68: 1104-1110.

DU, Y., LI, J., KRAGH, P.M., ZHANG, Y., SCHMIDT, M., BØGH, I.B., ZHANG, X., PURUP, S., JØRGENSEN, A.L., PEDERSEN, A.M., VILLEMOES, K., YANG, H., BOLUND, L., VAJTA, G.

(2007). Piglets born from vitrified cloned blastocysts produced with a simplified method for delipation and nuclear transfer. Cloning and Stem Cells 9: 469-476.

KAGAWA, N., KUWAYAMA M., NAKATA K., VAJTA, G., SILBER, S., MANABE, N., KATO, O. (2007): Production of the first offspring from oocytes derived from fresh and cryopreserved pre-antral follicles of adult mice. Reproductive BioMedicine Online 14: 693-699.

KRAGH, P.M., PEDERSEN, C.B., SCHMIDT, S.B., WINTER, V.S., VAJTA, G., GREGERSEN N., BOLUND, L., CORYDON, J. (2007): Handling of human short-chain acyl-CoA dehydrogenase (SCAD) variant proteins in transgenic mice**.** Molecular Genetics and Metabolism 91: 128-137.

KUWAYAMA, M., COBO, A., VAJTA, G. (2007): Vitrification of oocytes – general considerations and the use of the Cryotop method. In: Vitrification in Assisted Reproduction, Tucker, M.J., Liebermann, J., eds., Informa Healthcare, Oxon, UK, pp. 119-128.

LIND, N.M., MOUSTGAARD, A., JELSING, J., VAJTA, G., GJERRIS, M., CUMMING, P., HANSEN, A.K. (2007): The use of pigs in neuroscience: modeling brain disorders. Neuroscience and Biobehavioral Reviews 31: 728-751.

SHUFARO, Y., VAJTA, G., TROUNSON, A.O., REUBINOFF, B.E. (2007): Vitrification of Human Embryonic Stem Cells. In: Vitrification in Assisted Reproduction, Tucker, M.J., Liebermann, J., eds., Informa Healthcare, Oxon, UK, pp. 293-298.

THOMPSON, J., VAJTA, G. (2007): Foreword. Proceedings of the Symposium: Innovative Techniques in Human and Animal Embryology. Theriogenology 67: 1.

ZHANG, Y., LI, J., VILLEMOES, K., PEDERSEN, M.A., PURUP, S., VAJTA, G. (2007). An epigenetic modifier results in improved in vitro blastocyst production after somatic cell nuclear transfer. Cloing Stem Cells 9: 357-363.

VAJTA , G., KŐRÖSI, T., DU, Y., NAKATA, K., IEDA, S., KUWAYAMA, M., NAGY, Z.P. (2008). The Well of the Well (WOW) system: an efficient approach for improving human embryo development. Reproductive BioMedicine Online 17: 73-81.(IF 2.8)

VAJTA, G., YOVICH, J. (2008): Fundamental principles of cryobiology. Introduction to slow-freezing and vitrification. In: García-Velasco, J.A., Cobo, A., eds., Reproductive Medicine Notebooks 4 (5), Adalia, Madrid, pp 9-22

DU, Y., SCHMIDT, M., BOGH, I.B., KRAGH, P.M., SORENSEN, C.B., LI, J., PURUP, S., PRIBENSZKY, C., MOLNÁR, M., KUWAYAMA, M., ZHANG, X., YANG, H., BOLUND, L., VAJTA, G. (2008): High hydrostatic pressure treatment of porcine oocytes before handmade cloning improves developmental competence and cryosurvival. Cloning Stem Cells 10: 325-330. (IF 2.9)

DU, Y., PRIBENSZKY, C., MOLNÁR, M., ZHANG, X., YANG, H., KUWAYAMA, M., PEDERSEN, A.M., VILLEMOES, K., BOLUND, L., VAJTA, G. (2008) High hydrostatic pressure (HHP): a new way to improve in vitro developmental competence of porcine matured oocytes after vitrification. Reproduction 135: 13-17. (IF 2.9)

LI, J., ZHANG, J., DU, Y., KRAGH, P.M., VILLEMOES, K., PEDERSEN, A., PURUP, S., JØRGENSEN, A.L., BOLUND, L., YANG, H., XUE, Q., VAJTA, G. (2008). High *in vitro* development after somatic cell nuclear transfer and trichostatin A treatment of reconstructed porcine embryos. Theriogenology 70: 800-808.(IF 1.9)

PRIBENSZKY C, DU, Y., MOLNÁR, M., HARNOS, A., VAJTA, G. (2008): Increased stress tolerance of matured pig oocytes after high hydrostatic pressure. Animal Reproduction Science 106: 200-207. (IF 1.7)

LIU, Y., DU Y., LIN, L., LI, J., KRAGH, P., KUWAYAMA, M., BOLUND, L., YANG, H., VAJTA, G. (2008): Comparison of efficiency of Open Pulled Straw (OPS) and Cryotop vitrification for cryopreservation of in vitro matured pig oocytes. Cryo-Letters 29: 315-320.(IF 1.1)

VAJTA, G. (2009): Cryopreservation of oocytes and embryos. In: Laurincik, J., ed.: Animal Biotechnology, Monograph, Constantine the Philosopher University Nitra, Slovakia, pp. 74-91.

VAJTA, G. (2009): Micromanipulation in embryology. In: Animal Biotechnology, J. Laurincik, ed. Monograph, Constantine the Philosopher University Nitra, Slovakia, pp. 104-116.

KRAGH, P.M., NIELSEN, A.L., LI, J., DU, Y., LIN, L., SCHMIDT, M.H., BOGH, I.B., HOLM, I.E., JAKOBSEN, J.E., JOHANSEN, M.G., PURUP, S., BOLUND, L., VAJTA, G., JORGENSEN, A.L. (2009) Hemizygous minipigs produced by random gene insertion and handmade cloning express the Alzheimer's disease-causing dominant mutation APPsw. Transgenic Res. 18: 545-558. (IF 2.5)

LI, J., VILLEMOES, K., ZHANG, Y., DU, Y., KRAGH, P., PURUP, S., XUE, Q., PEDERSEN, A.M., JØRGENSEN, A.L., JAKOBSEN, J.E., BOLUND, L., YANG, H., VAJTA, G. (2009): Transgenic porcine embryos produced with handmade cloning. Reproduction in Domestic Animals 44: 122-127. (IF 1.3)

LIN, L., DU, Y., LIU Y, KRAGH, P.M., LI, J., PURUP, S., KUWAYAMA, M., ZHANG, X., YANG, H., BOLUND, L., VAJTA, G.(2009): Elevated NaCl concentration improves cryotolerance and developmental competence of porcine oocytes. Reproductive BioMedicine Online 18:360-366.(IF 2.8)

LIN, L., KRAGH, P.M., PURUP, S., KUWAYAMA, M., DU, Y., ZHANG, X., YANG, H., BOLUND, L., CALLESEN, H., VAJTA, G.(2009): Osmotic stress induced by sodium chloride, sucrose or trechalose improves cryotolerance and developmental competence of porcine oocytes. Reproduction, Fertility and Development 21: 338-344. (IF 2.8)

NAGY, Z.P., VAJTA, G., CHANG, C.-C., KORT, H. (2009): Vitrification of oocytes and embryos. In: Textbook of Assisted Reproductive Techniques, 3rd edition. Editors: D. K. Gardner, A. Weissman, C. M. Howles, Z. Shoham., Informa Healthcare, London, pp. 289-305.

VAJTA, G., CONCEICAO, J., YOVICH, J.(2009): Oocyte storage in domestic species. In: Coticchio, G., Borini, A., eds.: Preservation of Human Oocytes. Informa Healthcare, London, pp. 142-150.

VAJTA, G., CALLESEN H., MADDOX-HYTTEL, P (2009). Assisted Reproductive Technologies. In: Maddox-Hyttel, P, ed., Essentials in Domestic Animal Embryology, Elsevier Ltd, Edinburgh, Scotland, pp. 305-328.

VAJTA, G., NAGY, Z.P., COBO, A., CONCEICAO, J., YOVICH, J. (2009) Vitrification in ART: myths, mistakes, disbeliefs and confusion. Reproductive BioMedicine Online 19 Suppl. 3: 1-7 (IF2.8)

VAJTA, G., YOVICH, J (2009): Disadvantages and benefits of vitrification. In: Talwar, P., ed. Frozen Life, Delhi, India, pp. 123-134.

BIELANSKI, A., VAJTA, G. (2009): Risk of contamination of germplasm during cryopreservation and cryobanking in IVF units. Human Reproduction 24: 2457-2467.(IF 3.5)

COBO, A., VAJTA, G. Vitrification of mature human oocytes in clinical practice. Reproductive BioMedicine Online 19: Suppl. 4: 4385; 1-19. (IF 2.8)

LIOW, S.L., FOONG, L.C., CHEN, N.Q., YIP, W.Y., KHAW, C.L., KUMAR, J., VAJTA, G., NG, S.C. (2009): An infant born from vitrified human oocytes fertilized with frozen-thawed testicular spermatozoa – a case report. Reproductive BioMedicine Online 19: 198-202. (IF 2.9)

MADDOX-HYTTEL, P., VAJTA, G. (2009): The history of embryology. . In: Maddox-Hyttel, P, ed., Essentials in Domestic Animal Embryology, Elsevier Ltd, Edinburgh, Scotland, pp.15-33.

SØRENSEN, M.T., POULSEN, M.E., LEFFERS, H., VAJTA, G., HALEKOH, U. Effects of the plant growth regulator, chlormequat, on boar fertility. Animal *(in press)* (IF 0.2)

NAGY, Z.P., CHANG C.C., SHAPIRO D.B., BERNAL D.P., KORT, H.I., VAJTA, G. (2009): The efficacy and safety of human oocyte cryopreservation. Seminars in Reproductive Medicine 27: 450-455. (IF 0.4)

NAGY, ZP, RIENZI L, VAJTA G (2009): Cryopreservation of human oocytes: hopes without hypes? Expert Reviews in Reproductive Biology 4: 585-587.

VAJTA, G., COBO, A., RIENZI, L., YOVICH, L. (2010) Culture of mammalian embryos. Can we perform better than Nature? Reproductive Biomedicine Online 20:453-469. (IF 2.8)

VAJTA, G., RIENZI, L., BAVISTER, B.D.: Zona-free embryo culture: is it a viable option to improve pregnancy rates? Reproductive BioMedicine Online 21: 17-25 (IF 2.8)

ATTANASIO, L., BOCCIA, L., VAJTA, G., KUWAYAMA, M., CAMPANILE, G., ZICARELLI, L., GASPARRINI, B (2010). Cryotop vitrification of buffalo (Bubalus bubalis) in vitro matured oocytes: effects of cryoprotectant concentrations and warming procedures. Reproduction in Domestic Animals 45: 997-1002.

LIN, L., PRIBENSZKY, C., MOLNÁR, M., KRAGH, P.M., DU, Y., ZHANG, X., YANG, H., BOLUND, L., CALLESEN, H., MACHÁTY, Z., VAJTA, G. (2010) High hydrostatic pressure treatment of porcine oocytes induces parthenogenetic activation. Cellular Reprogramming 12: 475-80. (IF 2.9)

PRIBENSZKY, C., MOLNÁR, M., CONCEICAO, J, VAJTA, G.(2010) Prediction of the *in vitro* developmental competence of early cleavage stage mouse embryos with a purpose-designed timelapse equipment Reproductive BioMedicine Online 20: 371-379. (IF 2.8)

PRIBENSZKY, C., MÁTYÁS, S., KOVÁCS, P., LOSONCZI, E., ZÁDORI, J., VAJTA, G. (2010) Pregnancy achieved by transfer of a single blastocyst selected by time-lapse monitoring. Reproductive Biomedicine Online 21: 533-536. (IF 2.8)

PRIBENSZKY, C., VAJTA, G., MOLNAR, M., DU, Y, LIN, L., YOVICH, J (2010): Stress for stress tolerance: a new approach in embryology Biology of Reproduction 83: 690-697 (IF 3.7)

SCHMIDT, M., KRAGH, P.M., LI, J., DU, Y., LIN, L., LIU, Y., BOGH, I.B., WINTHER, K.D., VAJTA, G., CALLESEN, H. (2010) Pregnancies and piglets from large white sow recipients after two transfer methods of cloned and transgenic embryos of different pig breeds. Theriogenology. 74: 1233-1240. (IF 1.9)

UBALDI, F., ANNIBALLO, R., ROMANO, S., BARONI, E., ALBRICCI, L., COLAMARIA, S., CAPALBO, A., SAPIENZA, F., VAJTA, G., RIENZI, L. (2010) Cumulative ongoing pregnancy rate achieved with oocyte vitrification and cleavage stage transfer without embryo selection in a standard infertility program. Human Reproduction 25: 1199-1205. (IF 3.5)

RIENZI L., VAJTA, G., UBALDI F. Predictive value of oocyte morphology in human IVF: a systematic review of the literature. Human Reproduction Update *(in press)* (IF 7.6)

JAKOBSEN, J.E., MOLDT, B., KRAGH, P.M.: Pig transgenesis by Sleeping Beauty transposoon.. BMC Biotechnology (*in press*)

3. Published conference abstracts (in English; 112 between 1991)

VAJTA, G. (1999): Vitrification of oocytes. Proceedings of the 2nd Symposium on the Genetic Resources of Latin America and the Caribeans (SIRGEALC), Brasilia, p. 55.

VAJTA, G. (1999): Oocyte and embryo vitrification. Proceedings of the Third Conference of the European Society for Domestic Animal Reproduction, Anger, p. 4.

VAJTA, G. (2000): Vitrification of oocytes and embryos. Proceedings of the Australian Embryo Transfer Society, Perth, pp. 50-55.

VAJTA, G. (2003): The Attack of the Cloners. Proceedings of the Abilgaard Symposium, Copenhagen, Denmark, p. 63.

VAJTA, G. (2004): New ways and challenges in vitrification. Reprod. Dom. Anim. 39: 257.

VAJTA, G. (2005): Handmade somatic cell cloning in cattle and pigs. Proceedings of the 2005 Kinki University Symposium, Wakayama, Japan, p. 2.

VAJTA , G. (2005): Vitrification of domestic animal embryos and oocytes. Proceedings of the "Science for humanity" International Science Congress, Kuala Lumpur, p. 365.

VAJTA, G. (2006): Cryopreservation of oocytes and embryos. Proceedings of the Assisted Reproductive Workshop, Embryonics International, Singapore, May 12-13; pp. 24-34.

VAJTA, G., (2006): Chromosomal abnormalities in embryos and gametes. Proceedings of the Assisted Reproductive Workshop, Embryonics International, Singapore, May 12-13; pp. 38-51.

VAJTA, G.: Human cloning: is there any reason to do it? (2006): Proceedings of Serono Symposium "ART in the 21st Century: A Time for Reflection and New Horizons, Part II." November 10-11, Amsterdam, The Netherlands, p. L21.

VAJTA, G., MACHÁTY, Z., BÁRÁNDI, ZS., SOÓS, A., SOLTI, L.(1991): Transfer of in vitro fertilized and cultivated swine embryos. Theriogenology 35, 289.

VAJTA, G., MACHÁTY, Z., BÁRÁNDI, ZS., VARGA, ZS., KISS, I. (1992): Practical application of bovine in vitro fertilization (Abstract). Proceedings of the 8th World Holstein Friesian Conference, Budapest, p. 243.

VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1995): Efficient bovine in-vitro embryo-production - vitrification system suitable for direct transfer. Abstract. Proceedings of the 11th.Annual Meeting of European Embryo Transfer Association (AETE), Hannover, p. 248.

VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1996): Manual biopsy, vitrification and in-straw dilution of in vitro produced bovine blastocysts. Proceedings of 13th International Congress on Animal Reproduction, Sydney, p. 18-19.

VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1996): Cumulative efficiency of biopsy and vitrification - in straw dilution in a bovine in-vitro embryo production system. Theriogenology 45: 162.

VAJTA, G., BOOTH, P.J., HOLM, P., GREVE, T., CALLESEN, H. (1996): Comparison of two oocyte recovery methods for IVP from single slaughtered cows. Proceedings of the 11th. Annual Meeting of European Embryo Transfer Association (AETE), Lyon, p. 204.

VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1997): Effect of pH in culture medium on in vitro development of bovine embryos. Theriogenology 47: 286.

VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1997): Submarine Incubation System for in vitro embryo production. Biology of Reproduction 56 S1 Proceedings of the 30th Annual Meeting of the Society of the Study of Reproduction, Portland, Oregon, p. 214.

VAJTA, G., BOOTH, P.J., HOLM, P., GREVE, T., CALLESEN, H. (1997): The use of the Open Pulled Straw (OPS) method for vitrification of Day 2-8 in vitro produced bovine embryos. Proceedings of the 12th. Annual Meeting of European Embryo Transfer Association (AETE), Lyon, p. 204.

VAJTA, G., KUWAYAMA, M., BOOTH, P.J., HOLM, P., GREVE, T., CALLESEN, H. (1998): Open Pulled Straw (OPS) vitrification of cattle oocytes. Theriogenology 49: 176.

VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1998): Bovine embryo production using the Submarine Incubation System for maturation, fertilization and culture in vitro. Embryo Development In Vitro. Current Challenges and Future Concepts. Satellite Workshop Proceedings of the IETS Conference, Boston, p. 8.

VAJTA, G., KUWAYAMA, M., BOOTH, P.J., HOLM, P., GREVE, T., CALLESEN, H. (1998): Open Pulled Straw (OPS) vitrification: a new way to reduce cryoinjuries of ova and embryos. Proceedings of the Cloning Symposium, April 15-16, Melbourne, Australia, p. 40.

VAJTA, G., MURPHY, C., MACHÁTY, Z., PRATHER, R.S., GREVE, T., CALLESEN, H. (1998): In-straw dilution of in vitro produced bovine blastocysts after vitrification with the Open Pulled Straw (OPS) method. Gametes: Development and Function, A. Lauria, F. Gandolfi, G. Enne, L. Gianaroli, eds., Serono Symposia, Rome, Italy, p. 611.

VAJTA, G., PEURA, T.T., HOLM, P., BOOTH, P. J., GREVE, T., CALLESEN, H. (1999): The effect of medium, serum and temperature on the in vitro survival of bovine blastocysts after Open Pulled Straw (OPS) vitrification. Theriogenology 51: 176.

VAJTA, G., SJÕGREN, A., KNUDSEN, H., LAMBERGER, L.(1999): A novel submarine, hyperbaric incubation system improves culture conditions for human embryos. Proceedings of the 12th Nordic IVF Congress, Kuusamo, Finland, p. 37.

VAJTA, G., PEURA, T.T., HOLM, P., PÁLDI, A., GREVE, T., CALLESEN, H., TROUNSON, A.O. (2000): A new method for individual embryo culture: the Well of the Well (WOW) system. Theriogenology 53: 304,

VAJTA, G., HYTTEL, P., TROUNSON, A.O. (2000): Post-hatching development of in vitro produced bovine embryos on agar and collagen gels. Proceedings of the 14th International Congress of Animal Reproduction, Stockholm, p. 208.

VAJTA, G., ALEXOPOULOS, N., HALL, V.J., LEWIS, I.M., FRENCH, A.J., DENHAM, M., TROUNSON, A.O. (2001): In vitro development of IVM/IVF bovine embryos cultured beyond 30 days in different protein sources. Theriogenology 55: 344.

VAJTA, G., PUSHETT, D.A. ZAFIROPOULOS, D., TROUNSON, A.O. (2001): Felid embryo vitrification. Proceedings of the 1st International Symposium on Assisted Reproductive Technology for the Conservation of Genetic Management of Wildlife, Omaha, p. 128-133.

VAJTA, G., LEWIS, I. M., KORFIATIS, N.A., TRAVERS, R.L., TROUNSON, A.O. (2002): Bovine somatic cell cloning without micromanipulators: optimization of certain parameters. Theriogenology 57: 453.

VAJTA, G., LEWIS, M., CALLESEN, H. (2002): Bovine somatic cell nuclear transfer without micromanipulators: recent improvements. Reproduction in Domestic Animals 37:255.

VAJTA, G., LEWIS, I.M., CALLESEN, H. (2002): Hand-made somatic cell nuclear transfer in cattle: recent improvements. Proceedings of the 18th. Annual Meeting of European Embryo Transfer Association (AETE) Rolduc, The Netherlands, p. 238.

VAJTA, G., OVERSTRÖM, E.W., PEURA, T.T., MADDOX-HYTTEL, P., BARTELS, P., CALLESEN, H. (2003): Chimaeras from hand-made cloned (HMC) and IVP bovine embryos: an efficient system for production and cell allocation tracking. Theriogenology 59: 291.

VAJTA, G., PEURA, T.T., LAI, L., MURPHY, C.N., PRATHER, R.S., KRAGH, P.M., CALLESEN, H. (2004): Highly efficient and reliable chemically assisted enucleation method for handmade cloning (HMC) in cattle and pig. Reproduction, Fertility and Development 16: 159.

VAJTA, G., HUNTER, R.H.F., MADDOX-HYTTEL, P., CALLESEN, H. (2004): Delipation of bovine cytoplast does not impair in vitro development after somatic cell nuclear transfer. Proceedings of 15th International Congress of Animal Reproduction, Porto Seguro, Brazil, p. 558.

ALEXOPOULOS, N.I., VAJTA, G., DENHAM, M.S., TROUNSON, A.O. (2001): Effect of serum, oxygen and substrate on the development of IVP hatched bovine embryos. Theriogenology 55: 329.

ALEXOPOULOS, N.I., MADDOX-HYTTEL, P., VAJTA, G. (2002): Effect of protein supplementation on establishment of a hypoblast layer in bovine embryos. Theriogenology 57: 513.

BARTELS, P., JOUBERT, J., DE LA REY, M., TREADWELL, R., CALLESEN, H., VAJTA, G.(2004): Birth of Africa's first nuclear transferred animal produced with Handmade Cloning (HMC). Reproduction, Fertility and Development 16: 136.

BERTHELOT, F., MARTINAT-BOTTE, F., VAJTA, G., TERQUI, M. (2001): Cryopreservation of porcine embryos: state of the art. Book of Abstracts of the 52th Annual Meeting of the European Association for Animal Production, Budapest, Wageningen Pers, p. 210.

BHOJWANI, S., VAJTA, G., CALLESEN, H., ROSCHLAU, K., KUWER, A., BECKER, F., KLUKAS, H., KANITZ, W., POEHLAND, R. (2003): Zona-free somatic cell nuclear transfer in cattle – first HMC calf in Europe. Proceedings of the 19th. Annual Meeting of European Embryo Transfer Association (AETE) Rostock, Germany (in press)

BOOTH, P., VAJTA, G., HOLM, P., JACOBSEN, H., GREVE, T., CALLESEN, H. (1998): Open Pulled Straw (OPS) vitrification of both cytoplasts and Day 3 embryo donors in bovine nuclear transfer. Theriogenology 49: 384.

BOOTH, P.J., VAJTA, G., HØJ, A., HOLM, P., JACOBSEN, H., GREVE, T., CALLESEN, H. (1998): Application of the Open Pulled Straw (OPS) vitrification technique in nuclear transfer technology. Proceedings of the Cloning Symposium, April 15-16, Melbourne, Australia, p. 35.

BOOTH, P., VAJTA, G., HOLM, P., CALLESEN, H. (1996): In vitro survival after vitrification and in straw dilution of cloned bovine blastocysts. Proceedings of the 12th. Annual Meeting of European Embryo Transfer Association (AETE), p. 114.

BOOTH, P., HOLM, P., VAJTA, G., GREVE, T., CALLESEN, H. (1997): An inverse relationship between blastocyst developmental frequency and karyoplast age in bovine nuclear transfer. Proceedings of the 13th. Annual Meeting of European Embryo Transfer Association (AETE), p. 136.

BOOTH, P., HOLM, P., VAJTA, G., GREVE, T., CALLESEN, H. (1998): Comparison between cycloheximide and DMAP activation treatments for bovine nuclear transfer: provisional data. Proceedings of the 14th. Annual Meeting of European Embryo Transfer Association (AETE), p. 128.

BOOTH, P., VAJTA, G., HØJ, A., HOLM, P., JACOBSEN, H., GREVE, T., CALLESEN, H. (1998): Production of nuclear transfer calves using cytoplasts vitrified by the Open Pulled Straw (OPS) technique. Gametes: Development and Function, A. Lauria, F. Gandolfi, G. Enne, L. Gianaroli, eds., Serono Symposia, Rome, Italy, p. 512.

BOOTH, P., HOLM, P., VAJTA, G., GREVE, T., CALLESEN, H. (1999): Comparison between 6-dimethylaminopurine and cycloheximide activation treatments for bovine nuclear transfer. Theriogenology 51: 197.

BRANDAO, D.0., PEDERSEN, A., VAJTA, G., CALLESEN, H. (2003): Paraffin oil in in vitro embryo production: one routine component, a sudden toxic agent. Proceedings of the 19th. Annual Meeting of European Embryo Transfer Association (AETE) Rostock, Germany (*in press*)

BRANDAO, D.O., VAJTA, G., MADDOX-HYTTEL, P., STRINGFELLOW, D., LOVENDAHL, P., RUMPF, R., CALLESEN, H. (2004): In vitro culture of bovine embryos post hatching: a novel monitoring system. Reproduction, Fertility and Development 16: 123.

CRICHTON, E.G., ARMSTRONG, D.L., VAJTA, G., POPE, C.E., LOSKUTOFF, N.M. (2000): Developmental competence in vitro of embryos produced from Siberian Tigers (Panthera tigris altaica) cryopreserved by controlled rate freezing versus vitrification. Theriogenology 53: 328.

DINNYÉS, A., KEEFER, C.L., STICE, S.L., SOLTI, L., VAJTA, G., MACHÁTY, Z. (1994): Vitrification of IVMFC bovine embryos in VS3a and EFS solutions: a preliminary report. Theriogenology 41: 190.

DU, Y., KRAGH, P.M., ZHANG, X., YANG, H., BOLUND, L.& VAJTA, G. (2005). High overall in vitro efficiency of porcine handmade cloning combining oocyte trisection with sequential culture. Reproduction in Domestic Animals 40:372.

DU, Y., KRAGH, P.M., ZHANG, X., YANG, H., BOLUND, L.& VAJTA, G. (2006): Successful vitrification of parthenogenetic porcine blastocysts produced from delipated in vitro matured oocytes. Reproduction, Fertility and Development 18: 153.

DU, Y., ZHANG, X., LI, J., KRAGH, P.M., BOLUND, L.& VAJTA, G. (2006): Successful vitrification of parthenogenetic and cloned porcine blastocysts produced from delipated oocytes. Proceedings of the 22th Scientific Meeting of the European Embryo Transfer Association (AETE), Zug, Switzerland, p.122.

DU, Y., KRAGH, P.M., ZHANG, Y., LI, J., SCHMIDT, M., BØGH, I.B., ZHANG, X., PURUP, S., JØGENSEN, A.L.,PEDERSEN, A.M., VILLEMOES, K., YANG, H., BOLUND, L., VAJTA, G. (2007): Piglets born from handmade cloning. Reproduction, Fertility and Development 19: 135.

DU, Y., LIN, L., PRIBENSZKY, C., MOLNAR, M., KRAGH, P.M., LI, J., YANG, H., ZHANG, X., BOLUND, L., VAJTA, G. (2008): High Hydrostatic Pressure (HHP) improved developmental competence of porcine embryos produced by handmade cloning (HMC). Reproduction, Fertility and Development 20: 94-95.

FRENCH, A.J., HALL, V.J., KORFIATIS, N.A., RUDDOCK, N.T., VAJTA, G., LEWIS, I.M., TROUNSON, A.O. (2002): Viability of cloned bovine embryos following OPS vitrification. Theriogenology 57: 413.

FRENCH, A. J., TECIRLIOGLU, R. T., LEWIS, I. M., VAJTA, G., COONEY, M.A., KORFIATIS, N., DOWNIE, S., HODGSON, R., RUDDOCK, N. T., TROUNSON, A. O., HOLLAND, M.K. (2004): The effect of cytoplasmic volume and embryo aggregation on the viability of bovine hand-made cloning (HMC) embryos following vitrification. Proceedings of 15th International Congress of Animal Reproduction, Porto Seguro, Brazil, p. 569..

GREVE T., CALLESEN, H., VAJTA, G., HOLM, P., AVERY, B., SCHMIDT, M. (1996): Experimental in vivo and in vitro embryo production in Denmark. Proceedings of the 47th Annual Meeting of the European Association for Animal Production (EAAP), Lillehammer, Cph 1.3, p. 158.

HAY-SCHMIDT, A., VIUFF, D., VAJTA, G., CALLESEN, H., HYTTEL, P.(1998): Development of cell adhesions and junctional complex proteins in in vitro produced bovine embryos. Theriogenology 49: 180.

HOLM, P., VAJTA, G., GREVE, T., CALLESEN, H. (1995): Effect of different protein sources on the in vitro development of bovine in vitro zygotes. Abstract. Proceedings of the 11th. Annual Meeting of European Embryo Transfer Association (AETE), p. 190.

HOLM, P., VAJTA, G., CALLESEN, H. (1996): Time-lapse recording of in vitro development of different groups of bovine ova cultured simultaneously on a microscope stage: preliminary results Proceedings of 13th International Congress on Animal Reproduction, Sydney, p. 22-7.

HOLM, P., VAJTA, G., GREVE, T., CALLESEN, H. (1996): Pregnancy rates after direct transfer of in-straw rehydrated intact and biopsied vitrified in vitro produced bovine embryos. Proceedings of the 11th Annual Meeting of European Embryo Transfer Association (AETE), p. 138.

HOLM, P., VAJTA, G., BOOTH, P.J., CALLESEN, H. (1997): Developmental kinetics of the first cell cycles of bovine IVP embryos in relation to their in vitro viability and sex. Theriogenology 47: 324.

HOLM, P., VAJTA, G., BOOTH, P.J., CALLESEN, H. (1997): A protein-free SOF system supplemented with amino acids, sodium citrate and myo-inositol for bovine embryo culture. Proceedings of the 13th. Annual Meeting of European Embryo Transfer Association (AETE), p. 158.

HOLM, P., VAJTA, G., BOOTH, P., CALLESEN, H. (1999): OPS-vitrification versus conventional ethylene glycol freezing of bovine IVP blastocysts: in vitro kinetics of reexpansion and hatchin and in vivo survival. Proceedings of the 15th Annual Meeting of European Embryo Transfer Association (AETE), p. 168.

HOLM, P., BOOTH, P., VAJTA, G., CALLESEN, H. (1999): Brief exposure of in vitro matured oocytes to serum prior to fertilization in defined conditions enhance embryo development. Theriogenology 51: 320.

HOLM, P., VAJTA, G., BOOTH, P.J., CALLESEN, H. (2000): In vitro production of bovine embryos cultured in groups in wells or singly in the WOW system in a defined or undefined SOFaa medium. Theriogenology 53: 296.

HYTTEL, P., VIUFF, D., LAURINCIK, J., KING, W. A., FAIR, T., THOMSEN, P. D., HAY-SCHMIDT, A., VAJTA, G., CALLESEN, H., OCHS, R. L., GREVE, T. (1998): Ribosomal RNA gene activation in pre-implantation bovine embryos. Gametes: Development and Function, A. Lauria, F. Gandolfi, G. Enne, L. Gianaroli, eds., Serono Symposia, Rome, Italy, pp. 417-438.

ISACHENKO, V., ALABART, J. L., VAJTA, G., AGUILAR, B., COCERO, M. J., FORCH, J. (2000): The OPS vitrification of GV ovine oocytes with direct rehydration: is it working quick cooling or quick thawing or both? Proceeding of the 16th Annual Meeting of European Embryo Transfer Association (AETE), p. 168.

ISACHENKO, V., ALABART, J. L., VAJTA, G., COCERO, M. J., DATTENA, M., ALBERIO, R. H., FORCH, J. (2000): Double cryopreservation of rat embryos at different developmental stages with identical vitrification protocol: the not properly understood phenomenon. Journal of Reproduction and Fertility, Abstract Series (in press)

ISACHENKO, V., ALABART, J.L., VAJTA, G., COCERO, M. J., OLIVERA, J., ROCHE, A., FOLCH, J. (2001): Open Pulled Straw technology of vitrification and field (without microscope) transplantation of the small ruminant embryos. Biology of Reproduction 64 (Suppl. 1): 310-311.

JAKOBSEN, A.S., VAJTA, G., THOMSEN, P.D., CALLESEN, H., GREVE, T. (2005): Chromosome abnormalities in bovine nuclear transfer embryos produced by handmade cloning. Reproduction, Fertility and Development 17: 39.

KAGAWA, N., KUWAYAMA, M., SILBER, S.J., VAJTA, G., TERAMOTO, S., KATO, O (2006): Vitrification may be a promising approach for cryopreservation of ovarian tissue for auto- and xenotransplantation. Fertility and Sterility 86: S403.

KRAGH, P.M., VAJTA, G., CORYDON, J., BOLUND, L., CALLESEN, H (2004). Production of transgenic porcine blastocysts by handmade cloning. Reproduction, Fertility and Development 16: 290.

KRAGH, P.M., MTANGO, N.R., CORYDON, T.J., BOLUND, L., CALLESEN, L., VAJTA, G. (2005): Combined electrical and chemical activation of zona-free porcine oocytes. Reproduction, Fertility and Development 17: 284.

KRAGH, P.M., DU, Y., CORYDON, T. J., BOLUND, L., VAJTA, G. (2005): Porcine blastocysts produced by handmade cloning with a combined electrical and chemical activation. Transgenic Research 15:129-130.

KRAGH, P.M., DU, Y., LI, Y., ZHANG, Y., BOLUND, L., VAJTA, G. (2007): Transgenesis by handmade cloning using EGFP transfected Yucatan fibroblasts. Reproduction, Fertility and Development 19: 146.

KRAGH, P.M., LI, J., DU, Y., LIN, L., SCHMIDT, M., BOEGH, I.B., BOLUND, NIELSEN, A.L., HOLM, I.E., JOERGENSEN, A.L., VAJTA, G. (2008): Establishment of pregnancies with handmade cloned porcine embryos reconstructed with fibroblasts containing an Alzheimer's disease gene. Reproduction, Fertility and Development 20: 231-232.

LAURINCIK, J., AVERY, B., THOMSEN, P. D., VAJTA, G., VIUFF, D., HAY-SCMIDT, A., CALLESEN, H., OCHS, R. L., HYTTEL, P. (1998): Nucleolar protein localization in in vitro produced bovine embryos. Theriogenology 49: 185.

LEWIS, I. M., PEURA, T.T., LANE, M.W., VAJTA, G., TROUNSON, A. (1998): Pregnancies and live birth achieved from vitrified multigenerational cattle nuclear transfer embryos. Theriogenology 49: 323.

LEWIS, I. M., LANE, M. W., VAJTA, G. (1999): Pregnancy rates following transfer of in vitro produced bovine embryos vitrified by the Open Pulled Straw (OPS) method. Theriogenology 51: 168.

LEWIS, I. M., VAJTA, G., FRENCH, A.J., HALL, V.J., KORFIATIS, N.A., RUDDOCK, N.T., TRAVERS, M. J., TRAVERS, R.L., TROUNSON, A.O. (2002): Pregnancy rates from simplified zona-free and traditional zona-enclosed somatic cell cloning techniques in cattle. Theriogenology 57: 431.

LI, J., DU,Y. ZHANG, Y.H., KRAGH, P.M., BOLUND, L., YANG, H., XUE, Q.Z., VAJTA, G. (2006): Efficiency of chemically assisted handmade enucleation of porcine oocytes. Reproduction in Domestic Animals 41: 340.

LI, J., ZHANG, Y., DU, Y., KRAGH, P.M., PURUP, S., PEDERSEN, A.M., VILLEMOES, K., JØRGENSEN, A.L., BOLUND, L., XUE, Q.Z., YANG, H., VAJTA, G. (2007): Efficiency of two enucleation methods for the production of transgenic pig embryos by handmade cloning. Reproduction, Fertility and Development 19: 148.

LI, J., VILLEMOES, K., ZHANG, Y.H., DU Y., KRAGH, P.M., PURUP, S., PEDERSEN, A.M., JOERGENSEN, A.L., BOLUND, L., YANG, H., VAJTA, G. (2007): The effect of Trichostatin A on in vitro developmental ability of pig cloned embryos monitored with a time-lapse system. Proceeding of the 23rd Annual Meeting of European Embryo Transfer Association (AETE), Alghero, Sardinia, Italy, p. 196.

LI, J., DU Y., KRAGH, P.M., PURUP, S., VILLEMOES, K., PEDERSEN, A.M., JOERGENSEN, A.L., BOLUND, L., YANG, H., VAJTA, G. (2008): Development of pig embryos cloned from donor cells treated with Trichostatin A. Reproduction, Fertility and Development 20: 101.

LI, J., LIU, Y., LIN, L., KRAGH, P.M., JAKOBSEN, J.E., JORGENSEN, A.L., PURUP, S., BOLUND, L., CALLESEN, H., VAJTA, G. (2008): Production of porcine chimeric embryos with aggregation of embryos or blastomeres. Proceeding of the 24rd Annual Meeting of European Embryo Transfer Association (AETE) (*submitted*)

LIN, L., DU, Y., KRAGH, P.M., LI, J., BOLUND, L., YANG, H., ZHANG, X., KUWAYAMA, M., VAJTA, G. (2008): Induced blastocoel collapse improves survival rates of porcine blastocysts after vitrification. Reproduction, Fertility and Development 20: 121.

LIN, L., LIU, Y., KRAGH, P.M., LI, J., BOLUND, I., YANG, H., ZHANG, X., DU, Y., KUWAYAMA, M., CALLESEN, H., VAJTA, G. (2008): Osmotic pre-treatment of porcine oocytes improves their cryotolerance and developmental competence. Proceeding of the 24rd Annual Meeting of European Embryo Transfer Association (AETE) (*submitted)*

LIU, Y., SVARCOVA, O., LI, J., VAJTA, G., KRAGH, P.M., PURUP, S., CALLESEN, H. (2008) Permeabilization of porcine ear fibroblasts by Streptolysin O. Proceeding of the 24rd Annual Meeting of European Embryo Transfer Association (AETE) (*submitted*)

MACHÁTY, Z., PÁLDI, A., SOLTI, L., VAJTA, G. (1992): Blastomere biopsy and sex determination in bovine IVF embryos. Proceedings of the 12th International Congress on Animal Reproduction, The Hague, pp. 715-717.

MADDOX-HYTTEL, P., HUNTER, R.H.F., VAJTA, G., CALLESEN, H.(2004): Ultrastructure and actin distribution after fractionation of bovine oocytes for somatic cell nuclear transfer. Proceedings of 15th International Congress of Animal Reproduction, Porto Seguro, Brazil, p. 560.

MATSHIKIZA, M., BARTELS, P., VAJTA, G., OLIVIER, F., SPIES, T., BARTELS, G.E., HARLEY, E.H., BAUMGARTEN, I., CALLESEN, H.(2004): Embryo development following interspecies nuclear transfer of African buffalo (Syncerus caffer), Bontebok (Damaliscus Dorcus dorcus) and eland (Taurotragus oryx) somatic cells into bovine cytoplasts. Reproduction, Fertility and Development 16: 150.

MERTON, J.S., OEI, C., OTTER, T., HARING, R., VAJTA, G. (2001): Effect of cryopreservation method (glycerol, ethylene glycol, Open Pulled Straw) on in vitro survival of slaughterhouse and OPU derived IVP embryos. Theriogenology 55: 312.

PEDERSEN, HG, SCHMIDT M, STRØBECH L, VAJTA G, CALLESEN H, GREVE T (2003): Evaluation of pregnancies following transfer of embryos produced by HandMade Cloning. Biology of Reproduction 68 (Suppl. 1): 413.

PEURA, T. T., LANE, M. W., VAJTA, G., TROUNSON, A. O. (1998): Application of novel cryopreservation techniques in bovine nuclear transfer. Conference of the Australian Society of Reproductive Biology, Perth, p. 268.

PEURA, T. T., VAJTA, G., LANE, M. W., BOEKEL, K. N., TROUNSON, A. (1999): Vitrification of bovine cytoplasts for nuclear transfer. Theriogenology 51: 211.

PEURA, T. T., RUDIGER, S. R., VAJTA, G., WALKER, S. K. (2003): Increased in vitro development rates of sheep somatic cell nuclear transfer embryos produced by 'reverse order' zona-free method. Theriogenology 59: 280.

PEURA, T. T., RUDIGER, S. R., VAJTA, G., WALKER, S. K. (2003): Increased in vitro development rates of sheep somatic cell nuclear transfer embryos produced by 'reverse order' zona-free method. Theriogenology 59: 280.

RAINA, N., LUBBE, K., VAJTA, G., BISSET, C., THEUNISSEN, W., BARTELS, P., FRIEDMANN, Y., MORTIMER, D., GODKE, R. (2001): In vitro maturation, fertilisation and blastocyst development in African Buffalo (Syncerus caffer). Theriogenology 55: 399.

SAALFELD, M.H., DURR, G.C., PEGORARO, L.M., VETROMILA M.A., RHNEINGANTZ, M.G., ANGHINONI, L.B., PIVATO, I., VAJTA, G. (2002): Vitrification of embryos from the Jersey cows by the OPS procedure. Theriogenology 57: 560.

SCHMIDT M.E., BØGH, I.B., DU, Y., ZHANG, Y., LI, J., PURUP, S., VAJTA, G. (2007): Pregnancies and viability of the offspring after transfer of handmade cloned porcine embryos. Reproduction, Fertility and Development 19: 160.

SJÕGREN, A., VAJTA, G., KNUDSEN, H., LAMBERGER, L.(1999): Improved culture conditions for human embryos by use of a novel submarina hyperbaric incubation system. Annual Meeting of ESHRE, Tours, p. 212.

SOLTI, L., VARGA, ZS., BÁRÁNDI, ZS., VAJTA, G., MACHÁTY, Z., CSEH, S. (1991): IVF embryos from endangered Hungarian Grey Cattle population. ARTA Assisted Reproduction Technology and Andrology 2, 104.

SOLTI, L., MACHÁTY, Z., BÁRÁNDI, ZS., TÖRÖK, M., VAJTA G. (1992): IVF embryos of known parental origin from the endangered Hungarian Grey cattle breed. Theriogenology 37: 301.

SOLTI, L., VAJTA, G., MACHÁTY, Z., BÁRÁNDI, ZS. (1992): In vitro production of cattle embryos. 43rd Annual Meeting of the European Association of Animal Production (EAAP), Madrid, MC. IV.: 3.

TECIRLIOGLU, R. T., FRENCH, A. J., KORFIATIS, N. A., RUDDOCK, N. T., HALL, V.J., LEWIS, I. M., VAJTA, G., TROUNSON, A. O. (2002): Cloned calf produced by zona-free somatic cell nuclear transfer. Proceedings of the 6th International Symposium on Reproduction in Domestic Ruminants, Scotland, UK, August 14-17, 2002. p.A80

TECIRLIOGLU, R. T., FRENCH, A. J., COONEY, M.A., LEWIS, I. M., KORFIATIS, N. A., VAJTA, G., HODGSON, R., RUDDOCK, N. T., TROUNSON, A. O., HOLLAND, M.K. (2004): The effect of cytoplasmic volume and embryo aggregation on the viability of bovine hand-made cloning (HMC) embryos. Proceedings of 15th International Congress of Animal Reproduction, Porto Seguro, Brazil, p. 570.

VIUFF, D., AVERY, B., VAJTA, G., GREVE, T., CALLESEN, H., HØJHEIM, B., THOMSEN, P.D., HYTTEL, P. (1998): Localization of ribosomal RNA (rRNA), rRNA genes and silver staining nucleolar proteins in in vitro produced bovine embryos. Theriogenology 49: 190.

ZHANG, Y., DU, Y., LI, J., KRAGH P.M., VILLEMOES, K., PEDERSEN, A., PURUP, S., VAJTA G. (2006): In vitro maturation of oocytes and development of cloned embryos in pigs cultured in a chemically defined medium (PZM). Proceedings of the 22nd Scientific Meeting of the European Embryo Transfer Association (AETE), Zug, Switzerland, p. 204.

ZHANG, Y., DU, Y., LI, J., KRAGH, P.M., PEDERSEN, A.M., VILLEMOES, K., SCHMIDT M.E., BØGH, I.B., PURUP, S., BOLUND, L., JØRGENSEN, A.L., YANG, H., LI, N., VAJTA, G. (2007): Birth of cloned piglets derived from an optimized in vitro blastocyst production system by Trichostatin A treatment. Reproduction, Fertility and Development, 19: 169.

Registration of abstract has been discontinued after 2007

4. Journal articles, book chapters on the field of embryology (in Hungarian; 10)

VAJTA G., BÁRÁNDI ZS., VARGA ZS., MACHÁTY Z., CSEH S., SZÁSZ F., SOLTI L.(1991): Vemhesség in vitro fertilizált szarvasmarha petesejtbõl {Pregnancy after in vitro fertilization of bovine oocytes} Magyar Állatorvosok Lapja {Hungarian Veterinary Journal} 46: 87-90.

VAJTA, G., SOLTI, L. (1992): In vitro fertilizáció: új lehetõség a szarvasmarhatenyésztésben {In vitro fertilization as a new possibility for cattle breeding}. Állattenyésztés és Takarmányozás {Hungarian Journal of Animal Production} 41: 49-56

VAJTA, G., BÁRÁNDI, ZS., MACHÁTY, Z., VARGA, ZS., SOLTI, L., CSEH S., TÖRÖK, M. (1992): Új lehetõség a veszélyeztetett magyar szürke marha megõrzésére: az in vitro fertilizáció {In vitro fertilization as a new tool for preserving the Hungarian Grey cattle}. Magyar Állatorvosok Lapja {Hungarian Veterinary Journal} 47: 605-609

VAJTA, G., MACHÁTY, Z. (1994): Szarvasmarha embriók klónozása magátültetéssel {Cloning of cattle embryos by nuclear transfer}. Állattenyésztés és Takarmányozás {Hungarian Journal of Animal Production} 43: 481-496

VAJTA, G. (1995): A szarvasmarha in vitro fertilizáció gyakorlati alkalmazása {Application of cattle IVF in everyday practice}. Magyar Tudomány {Hungarian Science} 102: 143-155

VAJTA, G. (1995): Transzgénikus szarvasmarha elöállításának elméleti és gyakorlati kérdései {Theoretical and practical aspects of production of transgenic cattle}. Állattenyésztés és Takarmányozás {Hungarian Journal of Animal Production} 44: 385-402

VAJTA, G., HOLM, P., CALLESEN, H., GREVE, T.(1997): Hatékony eljárás in vitro fertilizált - mélyhûtött szarvasmarha embriók elõállítására {Efficient method to produce in vitro fertilized and cryopreserved bovine embryos}.. Magyar Állatorvosok Lapja {Hungarian Veterinary Journal} 119: 60-62

VAJTA, G., HOLM, P., GREVE, T., CALLESEN, H. (1997): In vitro fertilizált, ivarmeghatározott és mélyhûtött, direkt ültetésre alkalmas szarvasmarha embriók elõállítását célzó biopsziázási eljárások összehasonlítása {Comparison of biopsy methods to produce in vitro fertilized, sex-determined and cryopreserved bovine embryos suitable for direct transfer}. Magyar Állatorvosok Lapja {Hungarian Veterinary Journal} 119: 257-320

VAJTA, G., HOLM, P., CALLESEN, H. (1997): A szarvasmarha embriók mélyhûtésének új módszerei {New methods for bovine embryo cryopreservation}.. Állattenyésztés és Takarmányozás {Hungarian Journal of Animal Production} 46: 297-304.

MACHÁTY, Z., VAJTA, G., BÁRÁNDI, ZS., SOLTI, L.(1992): In vitro fertilizációval elõállított korai szarvasmarha embriók biopsziája {Biopsy of early cattle embryos produced by IVF}. Magyar Állatorvosok Lapja {Hungarian Veterinary Journal} 47: 610-614

Publications on the field of human and experimental medicine (27)

Vajta, G., Schaff, Zs., Lapis, K.: Sinusoidal cells of the liver (in Hungarian): Orvosképzés, 57: 419-429, 1982.

Vajta, G., Lapis, K., Kovács, L.: Light and electron microscopic investigations on Ito cells in acute experimental liver injury. In: Connective Tissue of the Normal and Fibrotic Human Liver. Eds. Gerlach, U., Pott, G., Rautenberg, J., Voss, B. Thieme, Stuttgart, New York, 1982, pp. 185-187.

Vajta, G., Kovács, L., Lapis, K.: Light, fluorescence and electron microscopic observation on vitamin A storing cells in allyl alcohol induced liver injury. Acta Morphol. Acad. Sci. Hung. 30: 309-317, 1982.

Vajta, G., Lapis, K., Kovács, L.: Investigations on vitamin A storing cells of normal and injuried mouse liver (in Hungarian). Morphologiai és Ig. Orv. Szle 22: 199-208, 1982.

Vajta, G., Schaff, Zs., Lapis, K.: Scanning electron microscopic investigations on the liver of experimental animals (in Hungarian). Morphologiai és Ig. Orv. Szle. 24: 195-202, 1984.

Vajta, G., Lapis, K.: Isolation and culture of hepatocytes (in Hungarian). Orvosképzés, 59: 323-330, 1984.

Vajta, G., Divald, A., Elek, J., Lapis, K., Paku, S.: Morphological examinations during “in situ” perfusion liver cell isolation. The role of EDTA pre-perfusion (in Hungarian). Morphologiai és Ig. Orv. Szle. 25: 107-114, 1985.

Vajta, G., Divald, A.: Isolation and culture of human hepatocytes (in Hungarian). Kísérletes Orvostudomány, 37: 105-110, 1985.

Vajta, G., Divald, A.: Light microscopic examination of intact and injuried cultures of rat hepatocytes (in Hungarian). Morphologiai és Ig. Orv. Szle. 25: 269-278, 1985.

Vajta, G., Divald, A., Elek, J., Major, J.: Collagen fiber formation in cultures of rat hepatocytes (in Hungarian). Kísérletes Orvostudomány, 37: 576-580, 1985.

Vajta, G., Divald, A.: In vitro modelling of liver diseases on cocultures of hepatocytes and a neonatal cell line. Pathology Res. Pract. 180: 319, 1985.

Vajta, G., Divald, A., Elek, J.: Fatty degeneration in hepatocyte cultures - a new experimental model (in Hungarian). Morphologiai és Ig. Orv. Szle. 25: 9-13, 1986.

Vajta, G., Divald, A., Elek, J., Tímár, F.: Morphological investigations on cocultures of rat hepatocytes and a neonatal liver cell line Rl 19. Acta Morphologica Hung. 34: 117-125, 1986.

Vajta, G., Divald, A., Elek, J., Lapis, K.: Fatty degeneration in cultured hepatocytes - a new experimental model. Virchows Arch. B. Cell Pathol. 52: 177-184, 1986.

Kovács, L., Szabó, M. M., Vajta, G., Szende, B., Lapis, K., Szendrõi, M.: Effect of E-N-trimethyl-lysine treatment on the proliferation of intestine epithelium (in Hungarian). Kísérletes Orvostudomány, 33: 80-84, 1981.

Szendrõi, M., Németh, L., Vajta, G.: Asbestos bodies in bile duct cancer associated with asbestosis of the lung (in Hungarian). Orv. Hetil. 122: 1913-1915, 1981.

Szendrõi, M., Németh, L., Vajta, G.: Asbestos bodies in bile duct cancer. Environmental Research, 30: 270-280, 1983.

Szendrõi, M., Vajta, G., Kovács, L., Schaff, Zs., Lapis, K.: Polarization colours of collagen fibers - a sign of collagen production activity in fibrotic processes. Acta Morphol. Acad. Sci. Hung. 32: 47-55, 1984.

Újhelyi, E., Divald, A., Vajta, G., Jeney, A., Lapis, K.: Effect of PGI_2 in carbon tetrachloride induced liver injury. Acta Physiol. Acad. Sci. Hung. 64: 425-430, 1984.

Újhelyi, E., Divald, A., Vajta, G., Jeney, A., Lapis, K.: Effect of PGI_2 in carbon tetrachloride induced liver injury. In: Recent Advances in Gastrointestinal Cryoprotection. Eds: Mózsik, Gy, Pár, A., Bertelli, A. Akadémiai Kiadó, Budapest, 1984, pp. 239-244.

B. Kovács, J., Sashegyi, J. Nagy, I., Lõrincz, M., Vajta, G.: Oral galactose essay, as the critics of value of small intestine biopsy examinations (in Hungarian). Orv. Hetil. 126: 897-901, 1985.

Divald, A., Vajta, G., Oláh, J., Jeney, A., Lapis, K.: Effect of prostacyclin on the trigliceride catabolism in carbon tetrachloride-poisoned hepatocytes. ICRS Medical Sciences (Biochemistry) 13: 1117-1118, 1985.

B. Kovács, J., Lõrincz, M., Nagy, I., Sashegyi, J., Bitvai, K., Pintér, E., Vajta, G.: A simple diagnostic protocol for small intestine diseases of children (in Hungarian). Orv. Hetil. 126: 2221-2226, 1985.

Lapis, K., Jeney, A., Divald, A., Vajta, G., Zalatnai, A., Schaff, Zs.: Experimental studies on the effect of hepatoprotective compounds. Tokai J. Exp. Clin. Med. 11: 135-145, 1986.

Zhai, W. R., Vajta, G., Acs, G., Paronetto, F.: An animal model for the production of hepatitis B virus markers. Lab. Invest. 58: 108, 1988.

Zhai, W.R., Vajta, G., Acs, G., Paronetto, A.: A nude mouse model for the in vivo production of hepatitis B virus. Gastroenterology 98: 470-477, 1990.

Acs, G., Karpen, S., Banerjee, R, Sells, M. A., Vajta, G., Price, P., Sung, M., Lengyel, G., Shvartsman, M.: Trans-acting factors regulating the replication and malignant transformation of hepatitis B virus. In: Liver Cell Carcinoma. Eds: Bannasch, Keppler, Weber. Kluver, New York, London etc. 1989, pp. 113-117.