

Publikationen Dr. Pierre Vanderzwalmen

Originalarbeiten

Wirleitner B, Schuff M, **Vanderzwalmen P**, Stecher A, Okhowat J, Hradecký L, Kohoutek T, Králícková M, Spitzer D, Zech NH. Intrauterine administration of human chorionic gonadotropin does not improve pregnancy and life birth rates independently of blastocyst quality: a randomised prospective study. *Reprod Biol Endocrinol*. 2015; 13(1):70.

Okhowat J, Murtinger M, Schuff M, Wogatzky J, Spitzer D, **Vanderzwalmen P**, Wirleitner B, Zech NH. A distinct massage device treatment positively impacts the IVF outcome in patients. *Altern Ther Health Med*. 2015; 21(2): 16-22.

Spitzer D, Corn C, Stadler J, Wirleitner B, Schuff M, **Vanderzwalmen P**, Grabher F, Zech NH. Implications of Blood Type for Ovarian Reserve and Infertility - Impact on Oocyte Yield in IVF Patients. *Geburtshilfe Frauenheilkd*. 2014; 74: 928-932.

Stecher A, **Vanderzwalmen P**, Zintz M, Wirleitner B, Schuff M, Spitzer D, Zech NH. Transfer of blastocysts with deviant morphological and morphokinetic parameters at early stages of in-vitro development: a case series. *Reprod Biomed Online*. 2014; 28(4): 424-35.

Vanderzwalmen P, Connan D, Grobet L, Wirleitner B, Remy B, Vanderzwalmen S, Zech N, Ectors FJ. Lower intracellular concentration of cryoprotectants after vitrification than after slow freezing despite exposure to higher concentration of cryoprotectant solutions. *Hum Reprod*. 2013; 28(8): 2101-10.

Zech NH, **Vanderzwalmen P**, Stecher A, Spitzer D, Wirleitner B. EGP: expected gametes performance evaluated by blastocyst culture, a new standard to define "response" from a holistic viewpoint. *J Assist Reprod Genet*. 2013; 30(8): 1059-61.

Wirleitner B, **Vanderzwalmen P**, Bach M, Baramsai B, Neyer A, Schwerda D, Schuff M, Spitzer D, Stecher A, Zintz M, Zech NH. The time aspect in storing vitrified blastocysts: its impact on survival rate, implantation potential and babies born. *Hum Reprod*. 2013; 28(11): 2950-7.

Papatheodorou A, **Vanderzwalmen P**, Panagiotidis Y, Prapas N, Zikopoulos K, Georgiou I, Prapas Y. Open versus closed oocyte vitrification system: a prospective randomized sibling-oocyte study. *Reprod Biomed Online*. 2013;26(6):595-602.

Panagiotidis Y, **Vanderzwalmen P**, Prapas Y, Kasapi E, Goudakou M, Papatheodorou A, Passadaki T, Petousis S, Nikolettos N, Veletza S, Prapas N, Maroulis G. Open versus closed vitrification of blastocysts from an oocyte-donation programme: a prospective randomized study. *Reprod Biomed Online*. 2013;26(5):470-6.

Neyer A, **Vanderzwalmen P**, Bach M, Stecher A, Spitzer D, Zech N. Sperm head vacuoles are not affected by in-vitro conditions, as analysed by a system of sperm-microcapture channels. *Reprod Biomed Online*. 2013; 26(4): 368-77.

Wirleitner B, **Vanderzwalmen P**, Stecher A, Spitzer D, Schuff M, Schwerda D, Bach M, Schechinger B, Zech NH. Dietary Supplementation of Antioxidants Improves Semen Quality of IVF Patients in Terms of Motility, Sperm Count, and Nuclear Vacuolization. *Int J Vitam Nutr Res*. 2012; 82: 391-398

Bianchi V, Bolton V, Cobo A, Ebner T, Edgar D, Greuner M, Leibo S, Mortimer D, Nagy ZP, Parmegiani L, Roy T, Street K, Thornhill A, Van Landuyt L, **Vanderzwalmen P**, VerMilyea MT, Wood M. The Alpha consensus meeting on cryopreservation key performance indicators and benchmarks: proceedings of an expert meeting. *Reprod Biomed Online*. 2012;25(2):146-67.

Zech NH, Wirleitner B, Cassuto NG, Schuff M, Spitzer D, **Vanderzwalmen P**. Re: Gender incidence of intracytoplasmic morphologically selected sperm injection-derived embryos: a prospective randomized study. *Reprod Biomed Online*. 2012;25(3): 333.

Vanderzwalmen P. Adjustment of cryoprotectant exposure time to counteract reduced cooling rates. *Reprod Biomed Online*. 2012;24(6):684;

Chatzimeletiou K, Morrison EE, Panagiotidis Y, **Vanderzwalmen P**, Prapas N, Prapas Y, Tarlatzis BC, Handyside AH. Cytoskeletal analysis of human blastocysts by confocal laser scanning microscopy following vitrification. *Hum Reprod*. 2012;27(1):106-13.

Vanderzwalmen P, Zech NH, Ectors F, Stecher A, Lejeune B, Vanderzwalmen S, Wirleitner B. Blastocyst transfer after aseptic vitrification of zygotes: an approach to overcome an impaired uterine environment. *Reprod Biomed Online*. 2012; 25(6): 591-9.

Wogatzky J, Wirleitner B, Stecher A, **Vanderzwalmen P**, Neyer A, Spitzer D, Schuff M, Schechinger B, Zech NH. The combination matters--distinct impact of lifestyle factors on sperm quality: a study on semen analysis of 1683 patients according to MSOME criteria. *Reprod Biol Endocrinol*. 2012; 10:115.

Vanderzwalmen P, Zech N, Prapas Y, Panagiotidis Y, Papatheodorou A, Lejeune B, Jareño D, Vanderzwalmen S, Ectors F. [Closed carrier device: a reality to vitrify oocytes and embryos in aseptic conditions]. *Gynecol Obstet Fertil*. 2010; 38(9):541-6.

Vanderzwalmen P, Zech N, Lejeune B, Wirleitner B, Zech M, Ectors F. [Vitrification and the use of high concentrations of cryoprotectants: is it a justified argument to prefer slow freezing?]. *Gynecol Obstet Fertil*. 2010; 38(9): 536-40.

Wirleitner B, **Vanderzwalmen P**, Stecher A, Zech MH, Zintz M, Zech NH. Individual demands of human embryos on IVF culture medium: influence on blastocyst development and pregnancy outcome. *Reprod Biomed Online*. 2010;21(6):776-82.

Vanderzwalmen P, Ectors F, Grobet L, Prapas Y, Panagiotidis Y, Vanderzwalmen S, Stecher S, Frias P, Liebermann J, Zech NH. Aseptic vitrification of blastocysts from infertile patients, egg donors and after IVF. *Reprod Biomed Online*. 2009; 19(5): 700-7.

Cassuto NG, Bouret D, Plouchart JM, Jellad S, **Vanderzwalmen P**, Balet R, Larue L, Barak Y. A new real-time morphology classification for human spermatozoa: a link for fertilization and improved embryo quality. *Fertil Steril*. 2009; 92(5):1616-25

Ebner T, **Vanderzwalmen P**, Shebl O, Urdl W, Moser M, Zech NH, Tews G. Morphology of vitrified/warmed day 5 embryos predicts rates of implantation, pregnancy and live birth. *Reprod Biomed Online*. 2009; 19: 72-78.

Vanderzwalmen P, Hiemer A, Rubner P, Bach M, Neyer A, Stecher A, Uher P, Zintz M, Lejeune B, Vanderzwalmen S, Cassuto G, Zech NH. Blastocyst development after sperm selection at high magnification is associated with size and number of nuclear vacuoles. *Reprod Biomed Online*. 2008; 17: 617-627.

Uher P, Baborová P, Hüttelová R, Králíčková M, **Vanderzwalmen P**, Zech N. Methodological aspects of attempts to trans-differentiate adult stem cells into embryonic like cells *in vitro*. *Biomed Pap Med Fac Univ Palacky Olomouc Czech Repub*. 2008; 152(2): 1–3.

Zech NH, Rubner P, Wissner J, Thoeni A, **Vanderzwalmen P**, Zech H. Cardiac malformation rate: a link to embryo-culture in medium containing serum? *The Open Reproductive Science Journal*. 2008; 1: 22-27.

Uher P, Hüttelová R, Králíčková M, Novotný Z, Z. Rokyta Z, **Vanderzwalmen P**, Zech N. [Methodological Aspects on Attempts to Trans-differentiate Adult Stem Cells into Embryonic like Cells *in vitro*]. *Ceska Gynekol*. 2007; 72(5): 368.

Uher P, Hüttelová R, Králíčková M, Novotný Z, Rokyta Z, **Vanderzwalmen P**, Zech N. [How can the haematopoietic stem cells from the umbilical cord blood be de-differentiated *in vitro*? Our first results using the co-cultivation systems]. *Ceska Gynekol*. 2007;72(4):280-3.

Zech NH, Lejeune B, Stecher A, Puissant F, Vanderzwalmen S, Zech H, **Vanderzwalmen P**. A prospective evaluation on the optimal time for selecting a single embryo for transfer: day 3 versus day 5. *Fertil Steril*. 2007; 88(1): 244-6.

Koestenbauer S, **Vanderzwalmen P**, Hammer A, Schoonjans L, Danloy S, Zech H, Dohr G, Zech NH. Apoptosis affects integration frequency: Adult stem cells injected in blastocysts show high caspase-3 activity. *Cell Biol Int*. 2007; 31(5): 489-93.

Zech NH, Lejeune B, Zech H, **Vanderzwalmen P**. Vitrification of hatching and hatched human blastocysts: effect of an opening in the zona pellucida before vitrification. *Reprod Biomed Online*. 2005; 11(3): 355-61.

Prapas N, Prapas Y, Panagiotidis Y, Prapa S, **Vanderzwalmen P**, Schoysman R, Makedos G. GnRH agonist versus GnRH antagonist in oocyte donation cycles: a prospective randomized study. *Hum Reprod*. 2005; 20(6):1516-20.

Zech NH, Koestenbauer S, **Vanderzwalmen P**, Schoonjans L, Danloy S, Zech H, Blaschitz A, Dohr G. Paraffin-embedded manipulated blastocysts: a tool to demonstrate stem cell plasticity? *Reprod Biomed Online*. 2005; 10(3): 406-14.

Kahraman S, Sertyel S, Findikli N, Kumtepe Y, Oncu N, Melil S, Unal S, Yelke H, **Vanderzwalmen P**. Effect of PGD on implantation and ongoing pregnancy rates in cases with predominantly macrocephalic spermatozoa. *Reprod Biomed Online*. 2004;9(1):79-85.

Schwaerzler P, Zech H, Auer M, Pfau K, Gobel G, **Vanderzwalmen P**, Zech N. Pregnancy outcome after blastocyst transfer as compared to early cleavage stage embryo transfer. *Hum Reprod*. 2004; 19(9): 2097-102.

Prapas N, Prapas Y, Panagiotidis Y, Prapa S, **Vanderzwalmen P**, Makedos G. Cervical dilatation has a positive impact on the outcome of IVF in randomly assigned cases having two previous difficult embryo transfers. *Hum Reprod*. 2004;19(8):1791-5.

Vanderzwalmen P, Bertin G, Debauche Ch, Standaert V, Bollen N, van Roosendaal E, Vandervorst M, Schoysman R, Zech N. Vitrification of human blastocysts with the Hemi-Straw carrier: application of assisted hatching after thawing. *Hum Reprod*. 2003; 18(7):1504-11.

Zech N, Stecher A, **Vanderzwalmen P**, Zech H. Vitriifikation von der Eizelle bis zur Blastozyste. *J Fertil Reprod*. 2002; 12 (4): 13-8.

Kahraman S, Kumtepe Y, Sertyel S, Dönmez E, Benkhalifa M, Findikli N, **Vanderzwalmen P**. Pronuclear morphology scoring and chromosomal status of embryos in severe male infertility. *Hum Reprod*. 2002;17(12):3193-200.

Vanderzwalmen P, Bertin G, Debauche Ch, Standaert V, van Roosendaal E, Vandervorst M, Bollen N, Zech H, Mukaida T, Takahashi K, Schoysman R. Births after vitrification at morula and blastocyst stages: effect of artificial reduction of the blastocoelic cavity before vitrification. *Hum Reprod*. 2002;17(3):744-51.

Zech I, **Vanderzwalmen P**, Zech N. Entwicklung von Embryonen nach intrazytoplasmatischer Spermieninjektion (ICSI) bei "non-male factor" Infertilität in Relation zur Injektionstechnik. *J Fertil Reprod*. 2002; 12(3): 13-8.

Zech H, Pfau K, Schwärzler P, **Vanderzwalmen P**, Zech N. Blastozystenkultur - praktisches Vorgehen - Untersuchungen zum "Fetal Outcome". *J Fertil Reprod*. 2002; 12(2): 7-10.

Prapas Y, Prapas N, Hatziparasidou A, **Vanderzwalmen P**, Nijs M, Prapa S, Vlassis G. Ultrasound-guided embryo transfer maximizes the IVF results on day 3 and day 4 embryo transfer but has no impact on day 5. *Hum Reprod*. 2001;16(9):1904-8.

Zech H, **Vanderzwalmen P**, Prapas Y, Lejeune B, Duba E, Schoysman R. Congenital malformations after intracytoplasmic injection of spermatids. *Hum Reprod*. 2000;15(4):969-71.

Kahraman S, Akarsu C, Cengiz G, Dirican K, Sözen E, Can B, Güven C, **Vanderzwalmen P**. Fertility of ejaculated and testicular megalohed spermatozoa with intracytoplasmic sperm injection. *Hum Reprod*. 1999;14(3):726-30.

Zech H, Stecher A, **Vanderzwalmen P**, Zech N. Neue Techniken in der Reproduktionsmedizin: Effekt des Transfers von Metaphase II-Zytoplasma in Germinal-Vesikel-Oozyten. *J Fertil Reprod.* 1999; 9(3): 12-5.

Stecher A, Nijs M, Vandamme B, **Vanderzwalmen P**, Zech H, Zech I. *Embryonalentwicklung in sequentiellen Kulturmedien.* *J Fertil Reprod.* 1999; 9(3): 7-11.

Vandamme B, Nijs M, **Vanderzwalmen P**, Lejeune B, Vanroosendaal E, Bertin G; Segal L, Ruys H, Wissman D, Schoysman R. Transport of oocytes prior to intracytoplasmic sperm injection: a comparative study. *Hum Reprod.* 1998;13:81.

Vanderzwalmen P, Riedler I, Stecher A, Zech H, Zech N. Vitrifikation von humanen Embryonen in einem fortgeschrittenen Entwicklungsstadium. *J Fertil Reprod.* 1998; 8(2): 20-6.

Stecher A, **Vanderzwalmen P**, Riedler I, Zech N, Zech H. Vitrication of the Human Embryo at Advanced Stage of Development. *Official Journal of Russian Association of Human Reproduction.* 1998; 1: 22-5.

Vanderzwalmen P, Zech H, Birkenfeld A, Yemini M, Bertin G, Lejeune B, Nijs M, Segal L, Stecher A, Vandamme B, van Roosendaal E, Schoysman R. Intracytoplasmic injection of spermatids retrieved from testicular tissue: influence of testicular pathology, type of selected spermatids and oocyte activation. *Hum Reprod.* 1997 Jun;12(6):1203-13.

Ectors FJ, **Vanderzwalmen P**, Van Hoeck J, Nijs M, Verhaegen G, Delvigne A, Schoysman R, Leroy F. Relationship of human follicular diameter with oocyte fertilization and development after in-vitro fertilization or intracytoplasmic sperm injection. *Hum Reprod.* 1997;12(9):2002-5.

Zech H, Riedler I, Schoysman R, Stecher A, **Vanderzwalmen P**. Optimierung der ICSI-Technik durch unterschiedliche Immobilisierung der Spermatozoen vor der Injektion. *J Fertil Reprod.* 1997; 7 (3) (Ausgabe für Österreich): 15-19.

Stecher A; Riedler I; **Vanderzwalmen P**; Zech H. IVF und ICSI mit in vitro nachgereiften Eizellen: Welche Bedeutung hat die Follikelgröße und die Ausreifung der Eizellen auf die Fertilisierungsrate und die weitere Embryonalentwicklung? *J Fertil Reprod.* 1997; 7 (2) (Ausgabe für Österreich): 20-26.

Nijs M, **Vanderzwalmen P**, Vandamme B, Segal-Bertin G, Lejeune B, Segal L, van Roosendaal E, Schoysman R. Fertilizing ability of immotile spermatozoa after intracytoplasmic sperm injection. *Hum Reprod.* 1996;11(10):2180-5.

Kahraman S, Tasdemir M, Tasdemir I, Vicdan K, Ozgur S, Polat G, Isik AZ, Biberoglu K, **Vanderzwalmen P**, Nijs M, Schoysman R. Pregnancies achieved with testicular and ejaculated spermatozoa in combination with intracytoplasmic sperm injection in men with totally or initially immotile spermatozoa in the ejaculate. *Hum Reprod.* 1996;11(6):1343-6.

Kahraman S, Ozgur S, Alataş C, Aksoy S, Taşdemir M, Nuhoğlu A, Taşdemir I, Balaban B, Biberoglu K, Schoysman R, Nijs M, **Vanderzwalmen P**. Fertility with testicular sperm extraction and intracytoplasmic sperm injection in non-obstructive azoospermic men. *Hum Reprod.* 1996;11(4):756-60.

Kahraman S, Ozgür S, Alataş C, Aksoy S, Balaban B, Evrenkaya T, Nuhoğlu A, Taşdemir M, Biberöğlü K, Schoysman R, **Vanderzwalmen P**, Nijs M. High implantation and pregnancy rates with testicular sperm extraction and intracytoplasmic sperm injection in obstructive and non-obstructive azoospermia. *Hum Reprod*. 1996;11(3):673-6.

Vanderzwalmen P, Bertin G, Lejeune B, Nijs M, Vandamme B, Schoysman R. Two essential steps for a successful intracytoplasmic sperm injection: injection of immobilized spermatozoa after rupture of the oolema. *Hum Reprod*. 1996;11(3):540-7.

Vanderzwalmen P, Zech H, Zech N, Nijs M, Bertin G, Lejeune, Schoysman R. Fertilization and Pregnancy Rates after ICSI using Ejaculated Epididymal and Testicular Spermatozoa. *Official Journal of Russian Association of Human Reproduction*. 1995; 2: 52-60.

Prapas Y, Prapas N, Hatziparasidou A, Prapa S, Nijs M, **Vanderzwalmen P**, Vlassis G, Jones EE. The echoguide embryo transfer maximizes the IVF results. *Acta Eur Fertil*. 1995;26(3):113-5.

Schoysman R, Lejeune B, Segal L, van Roosendaal E, **Vanderzwalmen P**, Nijs M, Segal-Bertin G, Vandamme B. Indications for use of deferential sperm in IVF programs. *Acta Eur Fertil*. 1994;25(6):347-9.

Nijs M, Geerts L, van Roosendaal E, Segal-Bertin G, **Vanderzwalmen P**, Schoysman R. Prevention of multiple pregnancies in an in vitro fertilization program. *Fertil Steril*. 1993;59(6):1245-50.

Schoysman R, Segal L, **Van der Zwalmen P**, Nijs M, Bertin G, Cittadini E, Cimino C, Ruvolo G, Cefalù E, Palermo R. Fertilization of oocytes by testicular spermatozoa and pregnancy in the human. *Acta Eur Fertil*. 1993;24(3):103-5.

Barlow P, Puissant F, **Van der Zwalmen P**, Vandromme J, Trigaux P, Leroy F. In vitro fertilization, development, and implantation after exposure of mature mouse oocytes to visible light. *Mol Reprod Dev*. 1992;33(3):297-302.

Vanderzwalmen P, Barlow P, Nijs M, Bertin G, Leroy F, Schoysman R. Usefulness of partial dissection of the zona pellucida in a human in-vitro fertilization programme. *Hum Reprod*. 1992;7(4):537-44.

Barlow P, **Vanderzwalmen P**, Delvigne A, Van Hoeck J, Schoysman R, Leroy F. L'assistance à la fécondation de l'ovocyte humain par micromanipulation. *Revue médicale de Bruxelles*. 1992;23-27.

Vanderzwalmen P, Bertin G, Schoysman R. Treatment of male infertility by partial zona dissection in an ivf program. *Contraception Fertilité Sexualité*. 1991; 8:619-621.

Barlow P, **Van Der Zwalmen P**, Schoysman R, Leroy F. Improvement of fertilizing performance by normal and abnormal mouse semen after zona opening of mature oocytes. *Mol Reprod Dev*. 1991;30(4):385-9.

Van der Zwalmen P, Bertin-Segal G, Geerts L, Debauche C, Schoysman R. Sperm morphology and IVF pregnancy rate: comparison between Percoll gradient centrifugation and swim-up procedures. *Hum Reprod*. 1991;6(4):581-8.

Cognat B, Guerin JF, Mathieu C, Schoysman R , **Vanderzwalmen P**, Bertin G. Prélèvement de spermatozoïdes épидидymaires: Techniques et applications. *Contracept Fertil Sex*. 1991;19:763-769.

Massip A, **Vanderzwalmen P**, Scheffen B, Ectors F. Some significant steps in the cryopreservation of mammalian embryos with a note on a vitrification procedure. *Animal Reproduction Science*. 1989; 19:117

Van Der Zwalmen P, Gaurois B, Ectors FJ, Touati K, Massip A, Ectors F. Some factors affecting successful vitrification of mouse blastocysts. *Theriogenology*. 1988;30(6):1177-83.

Massip A, **Vanderzwalmen P**, Scheffen B, Ectors F. Pregnancies following transfer of cattle embryos preserved by vitrification. *Cryoletters*, 1986;7:270-273.

Demoustier MM, Beckers JF, **Van Der Zwalmen P**, Closset J, Gillard JL, Ectors F. Determination of porcine plasma follitropin levels during superovulation treatment in cows. *Theriogenology*. 1988;30(2):379-86.

Massip A, **van der Zwalmen P**. Développement de quarts d'embryons bovins frais ou après vitrification. *Ann Méd Vét*. 1988;132:483-487.

Ectors FJ **van der Zwalmen P**, Touati K, Beckers JF, Ectors FJ. Obtention de blastocystes après maturation et fécondation in vitro d'ovocytes de bovin: premiers résultats. *Ann. Méd.Vét*. 1988, 132, 517-519.

Massip A, **van der Zwalmen P**, Ectors F. Cryoconservation de l'embryon bovin: techniques et résultats. *Ann Méd Vét*. 1987;131: 515-528

Scheffen B, **Van der Zwalmen P**, Massip A. A simple and efficient procedure for preservation of mouse embryos by vitrification. *Cryoletters*. 1986;7:260-269.

Massip A, **Van der Zwalmen P**, Leroy F. Effect of stage of development on survival of mouse embryos frozen--thawed rapidly. *Cryobiology*. 1984;21(5):574-7.

Massip A, **van der Zwalmen P**. Direct transfer of frozen cow embryos in glycerol-sucrose. *Vet Rec*. 1984;115(13):327-8.

Massip A, **Van der Zwalmen P**, Puissant F, Camus M, Leroy F. Effects of in-vitro fertilization, culture, freezing and transfer on the ability of mouse embryos to implant and survive. *J Reprod Fertil*. 1984;71(1):199-204.

Beckers JF, De Coster R, Wouters-Ballman P, Fromont-Lienard Ch, **Vanderzwalmen P**, Ectors F. Dosage radioimmunologique de l'hormone placentaire somatotrope et mammatrope bovine. *Ann. Méd. Vét*. 1982;126:9-21.

Massip A, Mulnard J, **Vanderzwalmen P**, Hanzen C, Ectors F. The behaviour of cow blastocyst in vitro: cinematographic and morphometric analysis. *J Anat*. 1982;134(Pt 2):399-405.

Massip A, **Van der Zwalmen P**, Hanzen C, Ectors F. Fast freezing of cow embryos in French straws with an automatic program. *Theriogenology*. 1982;18(3):325-32.

Massip A, **Van der Zwalmen P**. In vitro survival of mouse embryos frozen in glycerol or glycerol-sucrose. *Cryoletters*. 1982; 3:326.

Massip A, Mulnard J, Huygen R, Hanzen C, **Vanderzwalmen P**, Ectors F. Ultrastructure of the cow blastocyst. *J Submicrosc Cytol*. 1981, 13:31-40.

Constantinescu MD, Massip A, **Vanderzwalmen P**. Research with a view of improvement of non surgical embryo sampling technique in cattle. *Simpzionul ameliorarea, tehnologia si patologia rumegatoarelor Cluj-Napoca*, 1981 pp 83-90.

Beckers JF, Fromont-Lienard C, **Vanderzwalmen P**, Wouters- Ballman P, Ectors F. Isolement d'une hormone placentaire bovine présentant une activité analogue à la prolactine et à l'hormone de croissance. *Ann. Méd. Vét.* 1980, 124: 585-601.

Massip A, **Van der Zwalmen P**, Ectors F, De Coster R, D'leteren G, Hanzen C. Deep freezing of cattle embryos in glass ampules or French straws. *Theriogenology*. 1979;12(2):79-84.

Fallstudien

Spitzer D, Schuff M, Zintz M, Murtinger M, Stecher A, **Vanderzwalmen P**, Zech M, Wirleitner B, Zech NH. Possible deleterious impact of putative gastrointestinal infections in the time period of oocyte recruitment on fertilization after IMSI: two case reports of consecutive IVF attempts. *J Assist Reprod Genet*. 2012; 29(5):429-31.

Stecher A, Bach M, Neyer A, **Vanderzwalmen P**, Zintz M, Zech NH. Case report: live birth following ICSI with non-vital frozen-thawed testicular sperm and oocyte activation with calcium ionophore. *J Assist Reprod Genet*. 2011; 28(5):411-4.

Vanderschueren D, Spiessens C, Kiekens C, **Vanderzwalmen P**, Nijs M, Schoysman R, D'Hooghe T. Successful treatment of idiopathic anejaculation with electroejaculation after microsurgical vas aspiration. *Hum Reprod*. 1998;13(2):370-1.

Yemini M, **Vanderzwalmen P**, Mukaida T, Schoengold S, Birkenfeld A. Intracytoplasmic sperm injection, fertilization, and embryo transfer after retrieval of spermatozoa by testicular biopsy from an azoospermic male with testicular tubular atrophy. *Fertil Steril*. 1995;63(5):1118-20.

Vanderzwalmen P, Lejeune B, Nijs M, Segal-Bertin G, Vandamme B, Schoysman R. Fertilization of an oocyte microinseminated with a spermatid in an in-vitro fertilization programme. *Hum Reprod*. 1995;10(3):502-3

Schoysman R, **Vanderzwalmen P**, Nijs M, Segal L, Segal-Bertin G, Geerts L, van Roosendaal E, Schoysman-Deboeck A. Pregnancy obtained with human testicular spermatozoa in an in vitro fertilization program. *J Androl*. 1994;15 Suppl:10S-13S.

Vanderzwalmen P, Bertin G, Nijs M, Lejeune B, Schoysman R. Fecondation ovocytaire par spermatide dans un programme de fecondation in vitro. *Andrologie* 4(4):523-524

Schoysman R, **Vanderzwalmen P**, Nijs M, Segal L, Segal-Bertin G, Geerts L, van Roosendaal E, Schoysman D. Pregnancy after fertilisation with human testicular spermatozoa. *Lancet*. 1993;342(8881):1237.

Schoysman R, **Vanderzwalmen P**, Nijs M, Segal-Bertin G, van de Casseye M. Successful fertilization by testicular spermatozoa in an in-vitro fertilization programme. *Hum Reprod*. 1993;8(8):1339-40.

Nijs M, **Vanderzwalmen P**, Segal-Bertin G, Geerts L, Van Roosendaal E, Segal L, Schoysman-Deboeck A, Schoysman R. A monozygotic twin pregnancy after application of zona rubbing on a frozen-thawed blastocyst. *Hum Reprod*. 1993;8(1):127-9.

Massip A, **van der Zwalmen P**, Mulnard J, Zwijsen W. Atypical hatching of a cow blastocyst leading to separation of complete twin half blastocysts. *Vet Rec*. 1983 26;112(13):301.

Übersichtsarbeiten

Vanderzwalmen P, Ectors F, Stecher A, Connan D, Desmet D, Greindl J, Zech N, Wirleitner B. Vitrification, an efficient cryopreservation procedure but still rising some debates. *Current Trends in Clinical Embryology*. 2014; 1: 34-35.

Vanderzwalmen P, Zech NH, Nagy ZP, Stecher A, Papatheodorou P, Schuff M, Wirleitner B. Cryopreservation of Human Unfertilized and Fertilized Oocytes. *J Reproduktionsmed Endokrinol*. 2013; 10 (Special Issue 1): 45-54.

Vanderzwalmen P, Fallet C. [IMS! indications, results and reflexions]. *J Gynecol Obstet Biol Reprod (Paris)*. 2010;39(1 Suppl):22-5.

Hiemer A, Zech NH, Ectors F, Panagiotidis Y, Bach M, Neyer A, Vanderzwalmen S, Tomsin O, **Vanderzwalmen P**. Putting aseptic vitrification into practice. *J Reproduktionsmedizin Endokrinol*. 2008; 5 (3), 121-131.

Vanderzwalmen P, Zech N, Greindl AJ, Lejeune B. [Cryopreservation of human embryos by vitrification]. *Gynecol Obstet Fertil*. 2006; 34(9): 760-69.

Koestenbauer S, Zech NH, Juch H, **Vanderzwalmen P**, Schoonjans L, Dohr G. Embryonic stem cells: similarities and differences between human and murine embryonic stem cells. *Am J Reprod Immunol*. 2006; 55(3):169-80.

Liebermann J, Dietl J, **Vanderzwalmen P**, Tucker MJ. Recent developments in human oocyte, embryo and blastocyst vitrification: where are we now? *Reprod Biomed Online*. 2003;7(6):623-33.

Vanderzwalmen P, Lejeune B, Segal L, Van Roosendaal E, Schoysman R. La micro-fécondation assistée de l'ovocyte humain. Trois méthodes microchirurgicales. *Gynécologie médi-sphère*. 1994;5:14-18.

Schoysman R, Segal L, **Van Der Zwalmen P**, Nijs M, Bertin G, Cittadini E, Cimino C, Ruvolo G, Cefalù E, Palermo R. Assisted fertilization with epididymal spermatozoa. *Acta Eur Fertil.* 1993;24(1):7-12.

Schoysman R, **Van der Zwalmen P**. Towards the definition of the fertilizing spermatozoa. *Acta Eur Fertil.* 1992;23(3):131-40.

Barlow P, **Van der Zwalmen P**, Delvigne A, Van Hoeck J, Schoysman R, Leroy F. [Assistance in human oocyte fertilization using micromanipulation]. *Rev Med Brux.* 1992;13(1-2):13-9.

Schoysman R, Van Roosendaal E, Bollen N, Vandervorst M, **Vanderzwalmen P**, Standaert V, Berting G, Debauche C, Lefere C. Modern sperm retrieval techniques and their usefulness in oocyte fertilization. *BJU Int.* 2001;88(2):141-6.

Prapas Y, Chatziparasidou A, **Vanderzwalmen P**, Nijs M, Prapas N, Lejeune B, Vlassis G, Schoysman R. Spermatic injection: reconsidering spermatic injection. *Hum Reprod.* 1999;14(9):2186-8.

Schoysman R, **Vanderzwalmen P**, Bertin G, Nijs M, Van Damme B. Oocyte insemination with spermatozoa precursors. *Curr Opin Urol.* 1999; 9(6):541-5.

Van der Zwalmen P, Bertin G, Schoysman-Deboeck A, Geerts L, Schoysman R, Debauche C. Techniques of sperm selection, improvement and separation in an in vitro fertilization program. *Acta Eur Fertil.* 1989;20(5):269-83.

Vanderzwalmen P, Nijs M, Schoysman R, Bertin G, Lejeune B, Vandamme B, Kahraman S, Zech H. The problems of spermatic microinjection in the human: the need for an accurate morphological approach and selective methods for viable and normal cells. *Hum Reprod.* 1998; 13(3):515-9.

Vanderzwalmen P, Nijs M, Stecher A, Zech H, Bertin G, Lejeune B, Vandamme B, Chatziparasidou A, Prapas Y, Schoysman R. Is there a future for spermatic injections? *Hum Reprod.* 1998 ;13 Suppl 4:71-84.

Schoysman R, Lejeune B, van Roosendaal E, Segal L, **Vanderzwalmen P**, Nijs M, Vandamme B, Bertin G. [Medically assisted reproduction with immature spermatozoa. Clinical examination and surgical techniques]. *Acta Urol Belg.* 1997;65(2):21-6.

Schoysman R, Lejeune B, van Roosendaal E, Segal L, **Vanderzwalmen P**, Nijs M, Vandamme B, Bertin G. La procréation médicalement assistée avec spermatozoïdes immatures: Impératifs cliniques et techniques chirurgicales. *Andrologie* 1996, Volume 6, Issue 4 Supplement, pp 432-439

Schoysman R, Lejeune B, Segal L, van Roosendaal E, **Vanderzwalmen P**, Nijs M, Bertin SG, Vandamme B. New therapeutic possibilities handling residual azoospermia. *Acta Eur Fertil.* 1995;26(4):131-6.

Proceedings

Baborova P, Uher P, Stecher A, **Vanderzwalmen P**, Corn C, Zech NH. Correlation between morphological semen parameters and sperm nuclear DNA damage: focus on the nuclear vacuoles. Medimont International Proceedings. Edited by J.L. Ballescà and R. Oliva; 9th International Congress of Andrology, Barcelona, Spain March 7-11, 2009.

Vanderzwalmen P, Delval A , ,Lejeune B , Puissant F Zech H . Vitrification: a promising method for the cryopreservation of human embryos. ESHRE Campus symposium. Cryobiology & Cryopreservation of Human Gametes & Embryos. Brussels, Belgium, 12 and 13 March 2004.

Poster, Abstracts, Vorträge, u.ä.

Wirleitner B; Schuff M; **Vanderzwalmen P**; Stecher A; Hradecký L; Kohoutek T; Králíčková M; Zech NH. The usefulness of intrauterine hCG application prior to blastocyst transfer in IVF-patients ≥ 38 years. 31ST ANNUAL MEETING OF ESHRE. Lisbon, Portugal, 2015. *Hum Reprod. In Press*

Vanderzwalmen P, Wirleitner B, Stecher A, Schuff M, Zech NH. The benefit of prolonged culture with primary aseptic vitrification embryo transfer (aVET) in cases of slow blastulating embryos. 31ST ANNUAL MEETING OF ESHRE. Lisbon, Portugal, 2015. *Hum Reprod. In Press*

Hruba M, Vlckova R, L. Hradecky L, Zemanova J, Novakova P, Kohoutek T, Wirleitner B, Schuff M, **Vanderzwalmen P**, Stecher A, Zech NH. Preimplantation genetic screening (PGS) in IVF cycles with frozen embryo transfer (FET) - 2 year experience of one PGS center. 31ST ANNUAL MEETING OF ESHRE. Lisbon, Portugal, 2015. *Hum Reprod. In Press*

M. Schuff, Wirleitner B, **Vanderzwalmen P**, M. Bach, Schwerda D, Stecher A, Neyer A, Zech NH. Reduced sperm quality is reflected in clinical outcome in advanced maternal age - independently of blastocyst quality - rendering sperm selection increasingly important. 31ST ANNUAL MEETING OF ESHRE. Lisbon, Portugal, 2015. *Hum Reprod. In Press*

Zech NH, Vanderzwalmen P, Stecher A, Wirleitner B. A critical view on how to advise patients for Preimplantation Genetic Diagnosis and Preimplantation Genetic Screening. 14th International Conference on Preimplantation Genetic Diagnosis. Chicago, USA. *Reprod BioMed Online*. 2015; 31, 262.

Zech NH, **Vanderzwalmen P**, Stecher A, Schuff M, Wirleitner B. Is low intensity stimulation always the "better" stimulation? – No. The 21th World Congress on Controversies in Obstetrics, Gynecology & Infertility (COGI). Guilin, China, 2015.

Zech NH, **Vanderzwalmen P**, Stecher A, Schuff M, Wirleitner B. Opposition: no proofs that endometrial scratch can improve implantation. The 21th World Congress on Controversies in Obstetrics, Gynecology & Infertility (COGI). Guilin, China, 2015.

Zech NH, **Vanderzwalmen P**, Stecher A, Schuff M, Wirleitner B. If you are not using time-lapse as part of your culture system, your patients are disadvantaged - Not True. The 21th World Congress on Controversies in Obstetrics, Gynecology & Infertility (COGI). Guilin, China, 2015.

Zech NH, **Vanderzwalmen P**, Stecher A, Schuff M, Wirleitner B. Implantation window. The 21th World Congress on Controversies in Obstetrics, Gynecology & Infertility (COGI). Guilin, China, 2015.

Zech NH, Wirleitner B, Spitzer D, **Vanderzwalmen P**. Blastocyst culture and expected gametes performance (EGP): The new KPI in ART. OEGRM, Salzburg, Austria. *J. Reproduktionsmed. Endokrinol.* 2014; 11(4): 211-218.

Wirleitner B, **Vanderzwalmen P**, Stecher A, Zintz M, Bach M, Zech NH. Wie viel sagt uns die Embryomorphologie am Tag 5 über die Chancen für die Patienten? OEGRM, Salzburg, Austria. *J Reproduktionsmed Endokrinol.* 2014; 11(4): 211-218.

Stecher A., Hrubá M; Hradecký L; Vlcková M; Zintz M, Kohoutek T, **Vanderzwalmen P**, Wirleitner B; Zech NH. Relation between aneuploidy, embryo morphology and morphokinetic parameters in PGD/PGS patients. *Fertil Steril.* 2014; 102(suppl3): e316.

Murtinger M, Küng D, Wirleitner B, Schuff M, **Vanderzwalmen P**, Neyer A, Bach M, Okhowat J, Schwerda D, Zech NH. Andulation therapy promotes implantation and increases pregnancy and birth rates in IVF-cycles. *Hum Reprod.* 2014; 29(suppl1): i201.

Wirleitner B, **Vanderzwalmen P**, Hradecký L, Prapas Y, Zech NH. Breakthrough in vitrification methods - A highly secure, safe and efficient aseptic method of vitrifying and storing oocytes for oocyte banking and all IVF indications. *Hum Reprod.* 2014; 29(suppl1):i246.

Neyer A, Zintz M, Stecher A, Wirleitner B, Bach M, Murtinger M, Zech NH, **Vanderzwalmen P**. Selection of embryos on day 3 by time-lapse technology or on day 5? The paternal factor brings the answer. *Hum Reprod.* 2014; 29(suppl1).

Stecher A, Hrubá M, Vlcková R, Hradecký L, Nováková P, Kohoutek T, Zintz M, **Vanderzwalmen P**, Wirleitner B, Zech NH. The predictive value of static morphologic and cinematographic analysis for genetic normalcy in human embryos. *Reprod BioMed Online Abstract Book, PGDIS 2014, Canterbury, UK: P51.*

Zech NH, Zintz M, Wirleitner B, Schuff M, Nováková T, Kohoutek T, Brotanova D, **Vanderzwalmen P**, Stecher A. Polar body sampling, cleavage stage, blastocyst biopsy or combination? Their impact on viability and PGD accuracy. *Reprod BioMed Online Abstract Book, PGDIS 2013, Istanbul, Turkey: O17.*

Wirleitner B, Lejeune B, Zech NH, **Vanderzwalmen P**. Aseptic oocyte vitrification to circumvent oocyte aging as strategy when semen sample is delayed. *Hum Reprod.* 2013; 28 (suppl 1): i149-i206.

Stecher A, Wirleitner B, **Vanderzwalmen P**, Zintz M, Neyer T, Bach M, Baramsai B, Schwerda D, Zech NH. Oocyte activation increases fertilization rate resulting in a higher final number of blastocysts without compromising implantation potential per transferred embryo: a prospective sibling study. *Hum Reprod.* 2013; 28 (suppl 1): i149-i206.

Schuff M, Stecher A, **Vanderzwalmen P**, Neyer T, Schwerda D, Zintz M, Baramsai B, Bach M, Wirleitner B, Zech NH. Irregular divided embryos and their potential to implant – a retrospective time-lapse analysis. 5th IVI Conference. Sevilla, Spain, 2013.

Nováková P, Petříková V, Brotanová D, Kohoutek T, Stecher A, **Vanderzwalmen P**, Wirleitner B, Hradecký L, Šubrt I, Zintz M, Zech NH. OUR EXPERIENCE WITH TROPHECTODERM BIOPSY. 17th World Congress on In vitro Fertilization. Tunis, Tunisia, 2013.

Wirleitner B, Zech NH, Stecher A, **Vanderzwalmen P**. Should we exclude reduced and low quality blastocysts from vitrification. 17th World Congress on In vitro Fertilization. Tunis, Tunisia, 2013.

Zech NH, Zintz M, Wirleitner B, Schuff M, Nováková P, Kohoutek T, Brotanova D, **Vanderzwalmen P**, Stecher A. Polar body sampling, cleavage stage, blastocyst biopsy or combination? Their impact on embryo viability and PGD accuracy. *Reprod Biomed Online*. 2013; 26: S1.

Stecher A, Wirleitner B, Schwerda D, **Vanderzwalmen P**, Zech NH. Factors attributed to questionable early cleavage events. A time-lapse analysis of embryo development to day 5. *Hum Reprod*. 2012; 27(suppl 2): ii162-ii205.

Wirleitner B, **Vanderzwalmen P**, Lejeune B, Zech NH. Preventing oocyte aging by aseptic vitrification for patients with unexpected delay of sperm production. *Fertil Steril*. 2012; 98: P458, S253.

Vanderzwalmen P, Grobet L, Zech N, Ectors F. Lower intracellular concentration of cryoprotectant after vitrification than slow freezing despite exposure to higher concentration of cryoprotectant solutions. *Fertil Steril*. 2012; 98: P49, S126.

Murtinger M, Stecher A, **Vanderzwalmen P**, Zech NH. Vorhersage der Embryonenentwicklung: Wie treffsicher ist das Expertenauge? ÖGRM 2011 Pörschach, Austria. *J Reproduktionsmed Endokrinol*. 2011; 8(5): 355-364.

Stecher A, **Vanderzwalmen P**, Bach M, Zech NH. IVF-Behandlung bei schwerer männlicher Subfertilität. ÖGRM 2011 Pörschach, Austria. *J Reproduktionsmed Endokrinol*. 2011; 8(5): 355-364.

Bach M, Neyer A, Stecher A, **Vanderzwalmen P**, Zech NH. IMSI: Ist die Kritik an dieser Technik gerechtfertigt? ÖGRM 2011 Pörschach, Austria. *J Reproduktionsmed Endokrinol*. 2011; 8(5): 355-364.

Vanderzwalmen P, Jareno D, Stecher A, Wirleitner B, Schwerda D, Zech NH. Birth After Transfer of Embryos Originating from Rescue Maturation of Germinal Vesicle Oocyte: Followed by IMSI and 2PN-Vitrification. ÖGRM 2011. *J Reproduktionsmed Endokrinol*. 2011; 8(5): 355-364.

Wirleitner B, **Vanderzwalmen P**, Stecher A, Zech NH. Vitrifikation von Eizellen: Vergleich zwischen offener und aseptischer Methode mit „VetriSafe“ als Carrier. ÖGRM 2011 Pörschach, Austria. *J Reproduktionsmed Endokrinol*. 2011; 8(5): 355-364.

Wogatzky J, **Vanderzwalmen P**, Schechinger B, Baramsai B, Zintz M, Stecher A, Zech NH. Einfluss von Lifestylefaktoren auf die Samenqualität (WHO- und MSOME-Kriterien). ÖGRM 2011 Pörschach, Austria. *J Reproduktionsmed Endokrinol*. 2011; 8(5): 355-364.

Vanderzwalmen P, Wirleitner B, Stecher A, Lejeune B, Puissant F, Vanderzwalmen S, Schwerda D, Baramsai B, Zech NH. Vitrification of zygotes in a closed system: sibling analysis on blastocyst formation rate of vitrified vs fresh zygotes. *Hum Reprod.* 2010; 25(suppl 1): i102-i105.

Vanderzwalmen P, Bach M, Neyer A, Stecher A, Zintz M, Lejeune B, Zech NH. Sperm selection for ICSI at high magnification: IMSI. *Hum Reprod.* 2010; 25(suppl 1): i55-i56.

Wogatzky J, Rubner P, Bach M, **Vanderzwalmen P**, Wirleitner B, Zech NH. Environmental and Lifestyle Factors in Men Undergoing ART and their Impact on Sperm-Analysis and MSOME Criteria. *J Reproduktionsmed Endokrinol.* 2010; 7(5):434.

Wirleitner B, Prapas Y, Panagiotidis Y, Papatheodorou Y, Stecher A, Lejeune B, Zech NH, **Vanderzwalmen P**. Vitrifikation von Eizellen und Vorkernstadien unter aseptischen Bedingungen. *J Reproduktionsmed Endokrinol* 2010; 7(5): 434.

Vanderzwalmen P, Ectors F, Wirleitner B, Stecher A, Vanderzwalmen S, Zech MH, Zech NH. Time Lapse Analysis of Mice Zygotes Exposed to Cryoprotectant Solutions: A Way to Observe and Understand the Behavior of Cells before Vitrification. *J Reproduktionsmed Endokrinol.* 2010; 7(5): 432.

Neyer T, Bach M, Stecher A, **Vanderzwalmen P**, Zintz M, Zech NH. Dynamik von Vakuolen im Spermatozoenkopf. *J Reproduktionsmed Endokrinol.* 2010; 7(5): 429.

Murtinger M, Zintz M, Stecher A, **Vanderzwalmen P**, Wirleitner B, Zech NH. Gastrointestinaler Infekt während der frühen Stimulationsphase – Einfluss auf die Eizellreifung und frühe Embryonalentwicklung. *J Reproduktionsmed Endokrinol.* 2010; 7(5): 429.

Murtinger M, Wirleitner B, Stecher A, **Vanderzwalmen P**, Eichel V, Zech NH. Einfluss von Endometriumhöhe und –struktur auf die Implantationschancen im Kryozyklus. *J Reproduktionsmed Endokrinol.* 2010; 7(5): 428.

Vanderzwalmen P, Prapas Y, Panagiotidis Y, Papatheodorou Y, Stecher A, Wirleitner B, Lejeune B, Zech N. Efficient vitrification of oocytes and zygotes under reduced cooling conditions in a hermetically sealed straw. IFFS 2010, Munich Germany. *J Reproduktionsmed. Endokrinol.* 2010; 7(4): 240-383.

Zech NH, Baborova P, Corn C, Zech MH, **Vanderzwalmen P**, Uher P. Correlation between morphological semen parameters and sperm nuclear DNA damage: focus on the nuclear vacuoles and patient with environmental stress. *J Androl.* 2009; 30 (Suppl S): 102.

Zech NH, Lopez J, Frias P, Leroy F, **Vanderzwalmen P**. In Vitro Maturation (IVM) of oocytes: replacement of developing embryos in a fresh or vitrified cycle? *Hum Reprod.* 2009; 24(suppl1): i67 (O-166).

Baborova P, Uher P, Stecher A, **Vanderzwalmen P**, Corn C, Zech NH. Correlation between morphological semen parameters and sperm nuclear DNA damage: focus on the nuclear vacuoles and patient with environmental stress. *J Reproduktionsmed Endokrinol.* 2008; 5(5): 289.

Vanderzwalmen P, Stecher A, Bach M, Neyer T, Zintz M, Zech H, Zech NH. Arguments to implement the selection of spermatozoa at high magnification before ICSI. *J Reproduktionsmed Endokrinol*. 2008; 5(5): 300.

Vanderzwalmen P, Frias P, Stecher A, Zech M, Lopez J, Zech NH. In Vitro Maturation (IVM) of Oocytes: Embryo Replacement in Fresh or Vitrified Cycles? *J Reproduktionsmed Endokrinol*. 2008; 5(5): 300.

Baborova P, Uher P, Stecher A, **Vanderzwalmen P**, Corn C, Zech NH. Correlation Between Morphological Semen Parameters and Sperm Nuclear DNA Damage: Focus on the Nuclear Vacuoles and Patient with Environmental Stress. *J Reproduktionsmed Endokrinol*. 2008; 5(5): 289.

Koestenbauer S, **Vanderzwalmen P**, Dohr G, Zech NH. Stammzellen mit embryonalem Charakter aus dem Nabelschnurblut – eine Zellpopulation mit großem Potential für den klinischen Einsatz. *J Reproduktionsmed Endokrinol*. 2007; 4(4): 197.

Zech NH, Bach M, Neyer T, Stecher A, Zintz M, Petra Baborova, Uher P, **Vanderzwalmen P**. Embryo development to day 5 and pregnancy rates after ICSI or intracytoplasmic morphologically selected sperm injection (IMSI) in patients with previous failure of implantation: a sibling study. *Fertil Steril*. 2007; 88(suppl1): P-771.

Stecher A., Zintz M., Bach M, Neyer A, Zech H., **Vanderzwalmen P**. Korrelation der Struktur der Zona Pellucida mit der weiteren Entwicklung zum Blastozystenstadium 23. Jahrestagung der Österreichischen Gesellschaft für Reproduktionsmedizin und Endokrinologie, Innsbruck, Austria, 2007

Neyer A , Stecher A, Bach M, Zintz M, Zech H, **Vanderzwalmen P**. Wird IMSI die klassische ICSI ersetzen? 23. Jahrestagung der Österreichischen Gesellschaft für Reproduktionsmedizin und Endokrinologie, Innsbruck, Austria, 2007.

Zech NH, Bach M, Neyer T, Stecher A, Zintz M, Petra Baborova, Uher P, **Vanderzwalmen P**. Blastocyst formation after intracytoplasmic morphologically selected sperm injection (IMSI) according to the morphological integrity of human sperm nuclei. *Fertil Steril*. 2007; 88(suppl1): P-86.

Cassuto GN, **Vanderzwalmen P**, Plouchart JM, Balet R, Larue L, Bouret D .How to improve the rate of good quality blastocysts after ICSI in a new approach for classification of motile human spermatozoa. *Fertil Steril*. 2007; 88(suppl1): S90.

Bach M, Neyer A, Stecher A, Uher P, **Vanderzwalmen P**, Zintz M, Zech N. Morphological integrity of human sperm nuclei and blastocyst formation after intracytoplasmic morphologically selected sperm injection (IMSI). *Hum Reprod*. 2007; 22(suppl1): i108 (O-273).

Vansteenbrugge A, **Vanderzwalmen P**; Vastersaegher C; Pauwels P. Does high concentration of cryoprotectant during vitrification of blastocysts present any risks? *Hum Reprod*. 2007; 22 (Suppl 1): i152, P387.

Koestenbauer S, **Vanderzwalmen P**, Sedlmayr P, Dohr P, Zech NH. De-Differentiation of stem cells from human umbilical cord blood into cells with embryonic characteristic. *J Reproduktionsmed Endokrinol*. 2006; 3(4): 263

Koestenbauer S, Zech NH, **Vanderzwalmen P**, Zech H, Sedlmayr P, Dohr G. De-differentiation of adult stem cells into cells with higher developmental potential. *Am J Reprod Immunol*. 2006; 56(1): 20.

Zech N, Stecher A, Zech H, Uher P, **Vanderzwalmen P**. Prospective analysis of embryo development to day 5 and transfer outcomes in sequential medium (G1.3–G2.3) vs. a one step protocol (Global medium). *Hum Reprod.* 2006; 21(suppl1): i162 (P-432).

Vanderzwalmen P, Lejeune B, Puissant F, Vanderzwalmen S, Zech H, Zintz M, Zech N. A prospective evaluation of the optimal time for selecting a single embryo for transfer: day 3 vs. day 5. *Hum Reprod.* 2006; 21(suppl1): i80 (O-204).

Koestenbauer S, **Vanderzwalmen P**, Hammer S, Schoonjans L, Danloy S, Zech H, Dohr G, Zech NH. Analysis to investigate the integration potential of human adult hematopoietic stem cells into mouse-blastocysts. Erster Kongress der Deutschen Gesellschaft für Stammzellforschung, Köln, Germany, 11/2006 Stammzellforschung.

Koestenbauer S, Zech N, **Vanderzwalmen P**, Daxböck C, Dohr G. „Transdifferenzieren“ adulte Stammzellen zu embryonalen Zellen? *J Reproduktionsmed Endokrinol.* 2005; 3:180-181.

Stecher A, Zintz M, Neyer A, Bach M, Zech N, Zech H, **Vanderzwalmen P**. Kultur von Embryonen bis zum Tag 5 in sequentielltem Medium oder in einem einfachen optimierten Kulturmedium „one-step“ Protokoll: Eine prospektive Analyse. *J Reproduktionsmed Endokrinol.* 2005; 3: 183-184.

Zech N, Köstenbauer S, **Vanderzwalmen P**, Zech H, Daxböck C, Dohr G. Mikroskopische und immunologische Analyse des Integrationspotenzials von adulten Stammzellen in Mäuse-Blastozysten. *J Reproduktionsmed Endokrinol.* 2005; 3:188.

Vanderzwalmen P, Lejeune B, Stecher A, Zech N, Delval A, Zech H. Aseptic vitrification of day 3 and day 5 embryos in a hermetically closed container. *J Reproduktionsmed Endokrinol.* 2005; 3:185-186.

Vanderzwalmen P, Lejeune B, Stecher A, Zech N, Delval A, Zech H. Survival of Day 3 and Day 5 Embryos Following Vitrification in Aseptic and Non-Aseptic Conditions: A Prospective Randomized Analysis. *Fertil Steril.* 2005; 84:175.

Zech N, Lejeune B, Puissant V, Zech H, **Vanderzwalmen P**. Single embryo transfer: selection on day 3 or day 5? A prospective study. *J Reproduktionsmed Endokrinol.* 2005; 3:187.

Zech N, Lejeune B, Puissant V, Zech H, **Vanderzwalmen P**. Single embryo transfer: selection on day 3 or day 5? A prospective study. *Fertil Steril.* 2005; 84:266.

Vanderzwalmen P, Grobet L, Zech N, Ectors FJ. Cryopreservation of murine embryos: in vitro comparison of slow freezing versus vitrification in FVB and C57BL/6 (B6) strains. *J Reproduktionsmed Endokrinol.* 2005; 3:187.

Vanderzwalmen P, Lejeune B, Stecher A, Zech N, Delval A, Zech H. Survival of day 3 and day 5 embryos following vitrification in aseptic and non-aseptic conditions: a prospective randomised analysis. *Fertil Steril.* 2005; 84(suppl1): S175.

Zech NH, Lejeune B, Puissant F, Zech H, Vanderzwalmen S, **Vanderzwalmen P**. Single Embryo Transfer: Selection on Day 3 or Day 5? A Prospective Observational Study. *Fertil Steril.* 2005; 84(suppl1): S266.

Zech N, Bertin G, Debauche C, Standaert V, **Vanderzwalmen P**. Vitrification of blastocysts after artificial hatching on day 4: an approach to cryopreserve biopsied embryos. *Hum Reprod*. 2003 18 (suppl 1): xviii140-xviii15.

Zech N, **Vanderzwalmen P**, Dohr G. Untersuchungen zur Invasion adulter Stammzellen in die embryonale Mausmatrix. *J Fertil Reprod*. 2003; 13(3): 42.

Zech I, **Vanderzwalmen P**, Zech N. Embryonalentwicklung nach ICSI bei "non male factor infertility" in Relation zur Injektionstechnik. *J Fertil Reprod*. 2002; 4(12):13-18.

Kahraman S, Kumtepe Y, Sertyel S, Dönmez F, Benkhalifa M, Findikli N, **Vanderzwalmen P**. Pronuclear morphology scoring and chromosomal complements of embryos. *Reprod BioMed Online* 2002; 4:33

Jeziorowski T, Zech I, Zech N, **Vanderzwalmen P**. Embryo development after ICSI and after standard IVF in sibling oocytes from non-male factor infertility patients - a comparison. *Hum Reprod*. 2002; 17(suppl1): 44 (O-125)

Zech H, **Vanderzwalmen P**, Zech N, Pfau K, Schwärzler P. Blastozystenkultur – Praktisches Vorgehen – Untersuchungen zum „Fetal Outcome“. *J Fertil Reprod*. 2001; 11(4).

Vandervorst M, **Vanderzwalmen P**, Standaert V, Debauche C, Bertin G, Zech H, Zech I, Bollen N, Van Roosendaal E, Schoysman R. Blastocyst transfer after vitrification in a hemi-straw (HS) system. *Hum Reprod*. (2001) 16 (suppl 1): 115-156.

Vanderzwalmen P, Bertin G, Debauche Ch, Standaert, VSchoysman E. "In Vitro" Survival of Metaphase II Oocytes (MII) and Blastocysts After Vitrification in a Hemi-Straw (HS) System. *Fertil Steril*. 2000; 84(suppl1): S215-216.

Zech H, **Vanderzwalmen P**, Zech N. Vitrifikation von der Eizelle bis zum Blastozysten. *J Fertil Reprod*. 2000; 10(4): 26-50.

Zech N, **Vanderzwalmen P**, Zech H. Eizellen- (MII) und Blastozysten-Vitrifikation in einem „Hemi-Straw (HS) System. *J Fertil Reprod*. 2000; 10(4): 26-50.

Zech H, **Vanderzwalmen P**, Zech N. Artifizielle Reduktion des Blastozoels verbessert das Ueberleben der Blastozysten nach der Vitrifikation. *J Fertil Reprod*. 2000; 10(4): 26-50.

Vanderzwalmen P, Zech H, Mukaida T, Takahashi K, Bertin G, van Roosendaal E. Artificial Reduction of the Blastocoelic Cavity Increases the Survival of Blastocysts (BL) After Vitrification Protocol. *Fertil Steril*. 2000; 74, 3, S48.

Vanderzwalmen P, Lejeune B, , Zech H, Nijs M, Vandamme B, Puissant F, Schoysman. Maternal age:a factor affecting huan expanded blastocyste formation and implantation rate. *Hum Reprod* 1999; 14(suppl3): 334.

Zech N, **Vanderzwalmen P**, Lejeune B, Vandamme B, Nijs M, Stecher A, Zech H. Synchronous development of embryos after prolonged culture in sequential media is a good predictor of therapy outcome in various age groups. *Hum Reprod* 1999; 14(suppl1): 207 (P-131).

Vanderzwalmen P, Zech H, Lejeune B, Nijs M, Vandamme B, Puissant F, Schoysman R. Evaluation of developmental capacity of morula, early blastocysts, blastocysts and expanded blastocysts. *Hum Reprod.* 1999;14 (abstr. Book 1): 333.

Vanderzwalmen P, Zech H, Lejeune B, Prapas Y, Prapas N, Nijs M, Vandamme B, Segal Bertin G, Debauche Ch, Van Roosendaal E, Chatziparasidou A, Stecher A, Puissant F, Wissman D, Schoysman R. Pregnancy and implantation rates after transfers on day 4 and 5 of fresh and vitrified embryos. *Hum Reprod.* 1999;14 (abstr. Book 1): 333-334.

Stecher A, **Vanderzwalmen P**, Murach K, Zech N, Zech H. Schicksal von Germinal-Vesikel-Eizellen im stimulierten Zyklus. *J Fertil Reprod.* 1999; 9(4).

Zech N, Stecher A, **Vanderzwalmen P**, Murach K, Zech H. Vorstellung neuer Ideen zur Eizellrekrutierung. *J Fertil Reprod.* 1999; 9(4).

Sander T, Zech N, Stecher A, **Vanderzwalmen P**, Murach K, Zech H. Welche Vorteile bringt eine Follikel-Stimulation tatsächlich? *J Fertil Reprod.* 1999; 9(4).

Zech N, **Vanderzwalmen P**, Murach K, Stecher A, Zech H. Vorstellung der „Schockwellentheorie“ als möglicher schädigender Einfluss auf die Embryonen nach dem Kryokonservieren und Auftauen. *J Fertil Reprod.* 1999; 9(4).

Zech H, Stecher A, Zech N, **Vanderzwalmen P**. Effekt des Transfers von MII- Zytoplasma in Germinal-Vesikel-Oocyten. *J Fertil Reprod.* 1998; 4: 40.

Nijs M, Segal-Bertin G, Vandamme B, **Vanderzwalmen P**, et al. In vitro culture of testicular spermatozoa: an improvement for the ICSI outcome. 10th World Congress on In Vitro Fertilization, Vancouver, USA 1997.

Vanderzwalmen P, Zech H, Stecher B, Lejeune B, Nijs M, Schoysman R, Birkenfeld A, Yemini M. Intracytoplasmic injection of spermatids retrieved from testicular tissue. XIVth Testis Workshop: Germ cell development, division, disruption and death. Baltimore, USA 1997.

Prapas Y, Chatziparasidou A, **Vanderzwalmen P**, Nijs M, Prapas N, Drakopoulos A, Lejeune B, Vlassis G, Schoysman R. Retrieval of spermatozoa and spermatids from testicular in non-obstructive azoospermia patients. 13th International Meeting of European Society of Human Reproduction and Embryology (ESHRE) Edinburgh, UK, 1997.

Vanderzwalmen P, Delval A, Chatziparasidou A, Bertin G, Ectors F, Lejeune B, Nijs M, Prapas N, Prapas Y, Vandamme B, Zech H, Schoysman R. Pregnancies after vitrification of human Day5 embryos. 13th International Meeting of European Society of Human Reproduction and Embryology (ESHRE) Edinburgh, UK, 1997.

Zech H, **Vanderzwalmen P**. Mikromanipulation an gameten. Dreiländertagung Fertilität und Sterilität. Journal für Fertilität und Reproduktion. 3, 58, 1995

Vanderzwalmen P, Bertin G, Nijs M, Schoysman E. Clinical results of intracytoplasmic sperm injection for severe male-factor infertility. *Hum Reprod.* 1994, 9, supplement 4, 26.

VANDERZWALMEN P, Raick D, Marechal D, Nijs M, Schoysman, Baeckeland. Effect of pentoxifylline and follicular fluid on the acrosome reaction: an ultrastructural study. *Hum Reprod.* (1994) 9 (suppl 4): 96-110.

Vanderzwalmen P, Lejeune B, Nijs M, Bertin G, Schoysman R. Facteurs influencant le taux de fécondation en micro-injection intra-cytoplasmique. Société d'Andrologie de langue Francaise: XI congrès Deauville 1994.

Vanderzwalmen P, Bertin G, Nijs M, and Schoysman R. Cumulative effect of pentoxifylline and follicular Fluid (FF) to enhance fertilization after SUZI in case of extreme OAT. 8th World Congress on IVF and alternate assisted reproduction. Kyoto, Japan, 1993.

Bertin G, **VANDERZWALMEN P**, Nijs M, Segal L, van Roosendaal E, Schoysman R. Microsurgery of the infertile male and IVF : pregnancy achieved using sperm aspirated from the epididymis and vas deferens. The European Society of human Reproduction and Embryology (ESHRE) - 8th International Meeting. 1992 Den Haag, The Netherlands.

Vanderzwalmen P, Nijs M, Bertin G, Geerts L, Segal L, van Roosendaal E, Schoysman R. Use of pentoxifylline in an IVF program for male infertility. The European Society of human Reproduction and Embryology (ESHRE) - 8th International Meeting. 1992 Den Haag, The Netherlands.

Nijs M, **Vanderzwalmen P**, Bertin G, Geerts L, Segal L, van Roosendaal E, Schoysman R. Pregnancies obtained after zona softening of in vitro cultered or frozen-thawed human embryos. The European Society of human Reproduction and Embryology (ESHRE) - 8th International Meeting. 1992 Den Haag, The Netherlands

Vanderzwalmen P, Bertin G, Debauche Ch, Geerts L, Schoysman R. Comparaison de 2 techniques de selection des spermatozoïdes et application dans un programme de FIV. VII congrès de la société d'andrologie de langue française. Bruxelles, Belgium 1989.

Touati K, **Van der Zwalmen P**, Ectors JF Beckers JF, Ectors F. Low dose of FSH early in estrous cycle enhances superovulatory response in heifers. Annual Conference of the International Embryo Transfer Society. *Theriogenology*. 1989; 31 (1):269.

Ectors JF, **Van der Zwalmen P**, Touati K, Beckers JF, Ectors F. In vitro maturation and fertilization of bovine oocytes. Annual Conference of the International Embryo Transfer Society. *Theriogenology*. 1989; 31 (1):188.

Van der Zwalmen P, Touati K, Ectors JF, Massip A, Beckers JF, Ectors F. Vitrification of bovine blastocysts. Annual Conference of the International Embryo Transfer Society. *Theriogenology*. 1989; 31 (1):260.

Beckers JF, Wouters-Ballman P, Viviers-Donnay I, Demoustier M, Touati K, **Vanderzwalmen P**, Massip A., Ectors F. Induction of superovulation in cattle. Réunion scientifique de l'association européenne de transfert embryonnaire. 1987.

Massip A, **Van der Zwalmen P**, Ectors F. Recent progress in cryopreservation of cattle embryos. Annual Conference of the International Embryo Transfer Society. *Theriogenology*. 1987;27(1):69-79.

Massip A, **Vanderzwalmen P.** Cryopreservation de l'embryon bovin: technique et résultats. 2° réunion de l'association européenne du transfert d'embryons Lyon, France, 5 September 1986.

Nijs M, **Vanderzwalmen P.**, Segal-Bertin G, Geerts L, Segal L, van Roosendaal E, Schoysman R. Arguments in favour of the possible role of PTF in accelerating the capacitation processes in human spermatozoa. 9th Annual Meeting of the European Society of Human Reproduction and Embryology (ESHRE). Thessaloniki, Greece, 27 - 30 June 1993.

Massip A, **Vanderzwalmen P.** La vitrification, méthode d'avenir pour la cryoprotection des embryons. International Congress, Annecy, France June 1986.

Massip A, **Vanderzwalmen P.** In vitro survival of mouse embryos frozen in glycerol or glycerol-sucrose. 8th International Meeting on problems of low Temperature biology. 1982, Leuven, Belgium.

Massip A, Mulnard J, **Vanderzwalmen P.** In vitro cleavage of the cow egg from the 2-cell to the 16-cell stage.: a cinematographic analysis. International Congress, Annecy France 20-21-22 September 1982.

Massip A, Ectors F, DE Coster R, D'ieteren G, Hanzen C, **Vanderzwalmen P.** Defonseca M. Deep freezing of cattle embryos in French straws. 9th Int. Congress on Animal Reproduction and A.I. Madrid, Spain 16-20 June 1980.

Buchbeiträge

Ebner T, **Vanderzwalmen P.** Wirleitner B. Atlas of Vitrified Blastocysts in Human Assisted Reproduction. Online Cambridge University Press 2015.

Vanderzwalmen P., Zech NH, Bach M, Lejeune B, Neyer A, Perrier d'Hauterive S, Puissant F, Stecher A, Vanderzwalmen S, Wirleitner B, Gaspard O. Sperm Vacuoles: Origin and Implications. Non-Invasive Sperm Selection for In Vitro Fertilization, Novel Concepts and Methods. Springer International Publishing AG, Part of Springer Science+Business Media 2015.

Vanderzwalmen P., Bach M, Gaspard O, Lejeune B, Neyer A, Puissant F, Schuff M, Stecher A, Vanderzwalmen S, Wirleitner B, Zech NH. Sperm. A Practical Guide to Selecting Gametes and Embryos. Montag M. (Ed). CRC Press 2014.

Vanderzwalmen P., Bach M, Batsuren B, Neyer A, Schwerda D, Stecher A, Wirleitner B, Zintz M, Lejeune B, Vanderzwalmen S, Cassuto NG, Zech MH, Zech NH. Intracytoplasmic Morphologically Selected Sperm Injection Z.P. Nagy et al. (eds.), Practical Manual of In Vitro Fertilization: Advanced Methods and Novel Devices, © Springer Science+Business Media, LLC 2012.

Vanderzwalmen P. Ectors F, Prapas Y, Zech M, Jareño D, Lejeune B, Vanderzwalmen S, Wirleitner B, Zech N, Grobet L. Cryopréservation d'ovocytes et d'embryons par congélation lente ou vitrification dans le cadre de l'assistance médicale à la procréation. Physiologie, pathologie et thérapie de la reproduction chez l'humain. Springer International Publishing AG, Part of Springer Science+Business Media 2011, pp 567-585.

Vanderzwalmen P. Ectors F, Grobet L, Van Steenbrugge A, Leroy F, Zech N. Vitrification des ovocytes et des embryons dans un programme d'assistance médicale à la procréation: le point de la situation. In: Physiologie, Pathologie et Thérapie de la Reproduction chez l'Humain, Edited by Springer Verlag 2010.

Vanderzwalmen P. Grobet L, Prapas Y, Frias P, Zech N. Aseptic vitrification of human blastocysts: Protocol development and clinical application. In: Fertility Cryopreservation, Edited by Ri-Cheng Chian and Patrick Quinn, Cambridge University Press 2010: 106-113.

Vanderzwalmen P. Zech NH. Vitrification of blastocysts using the Hemi-straw. Liebermann J and Tucker MJ (Ed). Vitrification in Assisted Reproduction: A User's Manual and Troubleshooting Guide. Taylor & Francis Books Ltd. 2007.

Mortimer S, **Vanderzwalmen P.** Cryopreservation: to freeze or to vitrify? In: "Contemporary perspectives in assisted reproductive technology" eds GN Allahbadia and R Merchant. Elsevier, New Delhi, India 2006;29:265-282

Zech H, Zech N, **Vanderzwalmen P.** Der Blastozystentransfer im Vergleich zum klassischen Embryotransfer. In: Kinderwunsch: Möglichkeiten, Erfüllbarkeit und Machbarkeit im neuen Jahrtausend, 2te Auflage. Edited by Fischl. Krause & Pachernegg GmbH, Verlag für Medizin und Wirtschaft, 2000: 185-192
ISBN-10: 3901299262; ISBN-13: 978-3901299261.

Vanderzwalmen P. Ebner T, Zech N. One decade of experience with vitrification of human embryos in straws, hemi-straws and high security vitrification straws. In: Vitrification in assisted reproduction: A user's manual and trouble-shooting guide, Edited by MJ Tucker and J Liebermann. Informa healthcare, RM&ART, 2007: 195-217. ISBN: 0415408822.

Vatja G; Kuwayama M; **Vanderzwalmen P.** Disadvantages and benefits of vitrification In " Vitrification in human assisted reproduction: A user's Manual and troubleshooting guide by MJ. Tucker and J Liebermann. Informa healthcare, RM&ART, 2007. ISBN: 0415408822.

Nijs M, **Vanderzwalmen P.** Questions on the use of Testicular and Epididymal Sperm in IVF. In The use of Testicular and Epididymal Sperm in IVF, pp 9-11, Editors Kay Elder, Thomas Elliot Ladybrook Publishing, Morley, West-Australia, 1998.

Vanderzwalmen P. Nijs M., Segal-Bertin, G *et al.* Epididymal sperm aspiration for in vitro fertilisation In Schoysman, R. (ed.). In: Microsurgery of Male Infertility. Ed: Fondazione per gli studi sulla riproduzione umana. 1994 Palermo, Italy pp 229-248.

Massip A, Mulnard J, **Vanderzwalmen P.** Hanzen C, Ectors F. Production de jumeaux monozygotes par duplication d'embryons chez les bovins. Ann. Méd.Vét.,1985; 129, 53-57.

Leroy F, Massip A, Puissant, Camus M, **Vanderzwalmen P**. Preliminary data on an animal model for the study of combined in vitro fertilization and embryo storage. In: Recent progress in human in vitro fertilization. 1983, 303-309. Eds Feichtinger W and Kemeter P.