

8 Literaturverzeichnis

AHLGREN, M. (1969):

Migration of spermatozoa to the fallopian tubes and the abdominal cavity in women, including some immunological aspects.

Lund, Studentlitteratur

ALEXANDER, N.J. (1981):

Evaluation of male infertility with an in vitro cervical mucuc penetration test.

Fertil. Steril. 36, 201-208

ALLISON, A.C., HARTREE, E.F. (1970):

Lysosomal enzyme in the acrosome and their possible role in fertilization.

J. Reprod. Fertil. 21, 501-515

AMANN, R.P. (1988):

Computerized evaluation of stallion spermatozoa.

Proc. 33rd Ann. Mtg. Amer. Assoc. of Equine Pract., 453-477

AMANN, R.P. (1989):

Can the fertility potential of a seminal sample be predicted accurately?

J. Androl. 10, 89-98

AMANN, R.P., PICKETT, B.W. (1987):

Principles of cryopreservation and a review of cryopreservation of stallion spermatozoa.

Equine Vet. Sci. 7, 145-187

ANDERSON, E.W., PICKETT, B.W., VOSS, J.L., CRANWELL, J.E. (1980):

The relationship between motility and fertility of frozen stallion semen.

Proc. 9th Int. Congr. Anim. Reprod. A. I., 3, 371

AUSTIN, C.R. (1975):

Membrane fusion events in fertilization.

J. Reprod. Fertil. 44, 155-166

BAUMGARTL, C. (1980):

Licht- und elektronenmikroskopische Untersuchungen über Veränderungen der Plasmamembran und Akrosomstruktur von Pferdespermien.

Diss. med. vet., Hannover

BEDFORD, J.M. (1970):

Sperm capacitation and fertilisation in mammals.

Biol. Reprod. Suppl. 2, 128-158

BIELANSKI, W., KACZMARSKI, F. (1979):

Morphology of spermatozoa in semen from stallion of normal fertility.

J. Reprod. Fertil. 27, 39-45

BLACH, E.L., AMANN, R.A., BOWEN, R.A., FRANTZ, D. (1989):

Changes in quality of stallion spermatozoa during cryopreservation: Plasma membrane integrity and motion characteristics.

Theriogenology 31, 283-298

BLOTTNER, S., WEGNER, H., ROELANTS, H., JEWGENOW, K. (1998):

Durchflusszytometrische Bestimmung des akrosomalen Status von Bullen- und Hengstpermien nach Markierung mit FITC-konjugiertem PNA (peanut agglutinin).

Tierärztl. Umschau 53, 442-447

BURNS, P. J. (1992):

Modification of Kenney's extender for cryopreservation of equine spermatozoa.

12th Int. Congr. Anim. Reprod. The Hague 4, 536

CACECI, T., VARNER, D.D. (1987):

Microtubular defects and persistent cytoplasmic droplets in an infertile stallion.

Southwestern Veterinarian 38, 13-16

CARILLO, L.F. (1978):

Aktivitätsbestimmungen des akrosomalen Enzyms Akrosin und deren Brauchbarkeit in der spermatologischen Diagnostik im Rahmen der Tiefgefrierkonservierung von Kaninchensperma.

Diss. med. vet. Hannover

CECHOVA, D., JANAKOVA, V. (1979a):

Isolation of acidic acrosin iso inhibitors from bull seminal plasma.

Hoppe Seyler's Z. Physiol. Chem. 360, 1759

CECHOVA, D., JANAKOVA, V. (1979b):

Isolation of a basic acrosin inhibitor from bull seminal plasma.

Hoppe Seyler's Z. Physiol. Chem. 360, 1753

CHENG, F.P., GADELLA, B. M., FAZELLI, A., BEVERS, M. M., COLENBRANDER, B., VOORHOUT, W. F. (1998):

Progesterone-induced acrosome reaction in stallion spermatozoa is mediated by a plasma membrane progesterone receptor.

Biol. Reprod. 59, 733-742

CHRISTENSEN, P., WHITFIELD, C. H., PARKINSON, T. J. (1996):

In vitro induction of acrosome reactions in stallion spermatozoa by heparin and A23187.

Theriogenology 45, 1201-1210

COCHRAN, J.D., AMANN, R.P., FROMANN, D.P., PICKETT, B.W. (1984):

Effects of centrifugation, glycerol level, cooling to 5°C, freezing rate and thawing rate on the post-thaw motility of equine sperm.

Theriogenology 22, 25-38

COCHRAN, J.D., AMANN, R. P., SQUIRES, E. L., PICKETT, B. W. (1983):

Fertility of frozen-thawed stallion semen extended in lactose-EDTA-egg yolk extender and packaged in 1,0-ml straws.

Theriogenology 20, 735-741

- CRISTANELLI, M.J., AMANN, R.P., SQUIRES, E.L, PICKETT, B.W. (1985):
Effects of egg yolk and glycerol levels in lactose-EDTA-egg yolk extender and of freezing rate on the motility of frozen-thawed stallion spermatozoa.
Theriogenology 24, 681-687
- CRISTANELLI, M.J., SQUIRES, E.L., AMANN, R.P., PICKETT, B.W. (1984):
Fertility of stallion semen processed, frozen and thawed by a new procedure.
Theriogenology 22, 39-42
- DOTT, H.M. (1975):
Morphology of stallion spermatozoa.
J. Reprod. Fertil. 23, 41-46
- DOTT, H.M., DINGLE, J.P. (1968):
Distribution of lysosomal enzymes in the spermatozoa and cytoplasmic droplets of bull and ram.
Exp. Cell. Res. 52, 523
- DOWSETT, K.F., OSBORNE, H.G., PATTIE, W.A. (1984):
Morphological characteristics of stallion spermatozoa.
Theriogenology 22, 463-472
- EGGERT-KRUSE, W., LEINHOS, R.W., GERHARD, I., TILGEN, W., RUNNEBAUM, B. (1989):
Prognostic value of in vitro penetration into hormonally standardized human cervical mucus.
Fertil. Steril. 51, 317-323
- EGGERT-KRUSE, W., GERHARD, I., TILGEN, W., RUNNEBAUM, B. (1990):
The use of hens' egg white as a substitute for human cervical mucus in assessing human infertility.
Intern. J. Androl. 13, 258-266
- FERNEUX, D., SERRES, C., JOUANNET, P. (1985):
Sliding spermatozoa: A dyskinesia responsible for human infertility? *Fertil. Steril.* 44, 508-511

FISER, P.S., FAIRFULL, R.W. (1986):

The effects of rapid cooling (cold shock) of ram semen, photoperiod and egg yolk in diluents on the survival of spermatozoa before and after freezing. *Cryobiology* 23, 518-524

FJÄLLBRANT, B. (1965):

Immunoagglutination of sperm in cases of sterility.
Acta Obstet. Gynecol. Scand. 44, 474

FJÄLLBRANT, B. (1971):

Antibodies affecting fertility in males.
In: *Proceedings of the VIITH World Congress on Fertility and Sterility, Tokyo and Kyoto, 1971*. Amsterdam, Excerpta Medica Foundation, 1973, S. 99

GADDUM, P., BLANDAU, R.J. (1970):

Proteolytic reaction of mammalian spermatozoa on gelatin membranes.
Science 170, 749

GADDUM-ROSSE, P., BLANDAU, R.J. (1972):

Comparative studies on the proteolysis of fixed gelatin membranes by mammalian sperm acrosomes.
Am. J. Anat. 134, 133-144

GADDUM-ROSSE, P., BLANDAU, R.J., LEE, W.I. (1980):

Sperm penetration into cervical mucus in vitro. II. Human spermatozoa in bovine mucus.
Fertil. Steril. 33, 707-711

GALLI, A., BASETTI, M., BALDUZZI, D., MARTIGNONI, M., BORNAGHI, V.,
MAFFII, M. (1989):

Frozen bovine semen quality and bovine cervical mucus penetration test. *Theor. Appl. Genet.* 35, 4

GÖTZE, R. (1949):

Besamung und Unfruchtbarkeit der Haussäugetiere.
Schaper, Hannover

- GOULD, K.G., MARTIN, D.E., HAFEZ, E.S.E. (1975):
Mammalian spermatozoa.
In: HAFEZ, E.S.E. (Hrsg.): Scanning electron microscopic atlas of mammalian reproduction. Thieme, Stuttgart, 42-57
- GRASSL, R., SCHILL, W.-B. (1980):
Gelatinolytische Aktivität menschlicher Spermatozoen.
Fortschritte der Fertilitätsforschung 8, 134-142
- HARPER, H.J., LÖFFLER, G., WEISS, Z., PETRIDES, P.E. (1975)
Physiologische Chemie, Springer-Verlag, Berlin, 2. Auflage
- HARRISON, R.A.P. (1983):
The acrosome, its hydrolases and egg penetration.
In: ANDRE, J. (Hrsg.): The Sperm Cell, M.-Nijhoff Verlag, The Hague, 259
- HARTMANN, J.F., GWATKIN, R.B.L. (1971):
Alteration of sites on the mammalian sperm surface following capacitation.
Nature 234, 479-483
- HOLZMANN, A., STAHL, H. (1978):
Korrelation zwischen spermatologischen Befunden und Hyaluronidaseaktivität
in Stiersamen.
Zuchthyg. 13, 121
- INSLER, V., BERNSTEIN, D., GLEZERMA, M., MISQAV, N. (1979):
Correlation of seminal fluid analysis with mucus-penetration ability of spermatozoa.
Fertil. Steril. 32, 316-319
- JAMANE (1930):
zit. n. MANN u. LUTVAK-MANN (1981)
- JANAKOVA, V., CECHOVA, D. (1985):
Demonstration of an anionic acrosin inhibitor in spermatozoa, epididymal fluid
and seminal plasma of the boar.
Andrologia 17, 466

JONSSON, B., ENEROTH, P., LANDGREN, B.-M., WIKBORN, C. (1986):
Evaluation of in vitro sperm penetration testing of 176 infertile couples with the use of ejaculates and cervical mucus from donors.
Fertil. Steril. 45, 353-356

KARRAS, W. (1950):
Spermastudien. 1. Mitt. Eine Methode zur färberischen Darstellung der Kopfkappen und des Kolloidüberzuges der Spermien.
Monatsh. Prakt. Tierheilkd. 2, 162-167

KENNEDY, W.P., KAMINSKI, J.M., VAN DER VEN, H.H., JEYENDRAN, R S., REID, D. S., BLACKWELL, H., BIELFELD, P., ZANEVELD, L.J.D. (1989):
A simple, clinical assay to evaluate the acrosin activity of human spermatozoa.
J. Androl. 10, 221-231

KLOPPE, L.H., VARNER, D.D., ELMORE, R.G., BRETZLAFF, K.N., SHULL, J.W. (1988):
Effect of insemination timing on the fertilizing capacity of frozen/thawed equine spermatozoa.
Theriogenology 29, 429-439

KLUG, E. (1986):
Stand der Pferdebesamung.
Der Tierzüchter 38, 380-382

KÖRDEL, J. (1959):
Untersuchungen über die Morphologie der Bullenspermien bei Anwendung der Kopfkappenfärbemethode nach Karras.
Diss. med. vet., Hannover

KOHNE, K. (1995):
Einsatz osmotischer Resistenzbestimmung zur Beurteilung der Flüssig- und Kryokonservierungsfähigkeit von Hengstspermatozoen.
Diss. med. vet., Hannover

KRAUSE, D. (1966):

Untersuchungen am Bullensperma unter Berücksichtigung der fertilitätsdiagnostischen Bedeutung der Befunde.

Habilschr., Tierärztliche Hochschule Hannover

KREMER, J. (1965):

simple sperm penetration test.

Int. J. Fertil. 10, 209-214

KREMER, J., JAGER, S. (1976):

The sperm-cervical mucus contact test: A preliminary report.

Fertil. Steril. 27, 335-340

KREMER, J., JAGER, S., KUIKEN, J. (1977):

The meaning of cervical mucus in couples with antisperm antibodies.

In: INSLER, V. u. G. BETTENDORF (Hrsg.): The Uterine Cervix in Reproduction, Georg Thieme, Stuttgart, S. 181

KREMER, J., KROEKS, M.V.A.M. (1975):

Modification of the in vitro spermatozoal penetration test by means of the sperm penetration meter.

Acta Eur. Fertil. 6, 377

KURZROK, R., MILLER, E.G. (1928):

Biochemical studies of human semen and its relation to mucus of the cervix uteri.

Am. J. Obstet. Gynecol. 15, 56

LANG, G. (1986):

Interferometrische Messung der Gelatinefilm-Hydrolyse durch Spermien-Akrosin.

Diss. med. Giessen

- LEE, W.I., VERDUGO, P., BLANDAU, R.J., GADDUM-ROSSE, P. (1977): Molecular arrangement of cervical mucus: a reevaluation based on laser light-scattering spectroscopy.
Gynecol. Invest. 8, 254
- LEE, W.I., GADDUM-ROSSE, P., BLANDAU, R.J. (1981):
Sperm penetration into cervical mucus in vitro. III. effect of freezing on estrous bovine cervical mucus.
Fertil. Steril. 36, 209-213
- LEMOS de OLIVEIRA, M.A. (1982):
Einfluss verschiedener Aufbereitungsverfahren auf Motilität und Akrosinaktivität in der Thermoresistenzprüfung und auf das Befruchtungsergebnis von tiefgefrorenem Pferdesamen.
Diss. med. vet., Hannover
- MANN, T. (1964):
Biochemistry of semen and of the male reproductive tract.
Methuen, London
- MANN, T., LUTWAK-MANN, C. (1981):
Male reproductive function and semen.
Springer, Berlin-Heidelberg-New York
- MARSHALL, C., FREY, L. (1976):
Semen evaluation at select sires.
Proc. 6th Nat. Assoc. Anim. Breed. Tech. Conf. on A.I. and Reprod. Columbia, MO, 91-93
- MARTIN, J.C., KLUG, E., GÜNZEL, A.R. (1979).
Centrifugation of stallion semen and its storage in large volume straws.
J. Reprod. Fert. 27, 47-51
- MATOUSEK, J. (1985):
Biological and immunological roles of proteins in sperm of domestic animals.
Animal Reprod. Sci. 8, 1

- MATOUSEK, J., RIHA, J., SRESEN V., VESELSKY, L., LOUDA, F. (1989):
Penetration of cervical mucus and other body fluids by bull sperm in capillary tubes.
Anim. Reprod. Sci. 18, 161-166
- McRORIE, R.A., WILLIAMS, W.L. (1974):
Biochemistry of mammalian fertilization.
Annu. Rev. Biochem. 43, 777
- MILLS, R.N., KATZ, D.F. (1978):
A flat capillary tube system for assessment of sperm movement in cervical mucus.
Fertil. Steril. 29, 43-47
- MORTIMER, D., LENTON, E.A. (1983):
Distribution of sperm counts in suspected infertile men.
J. Reprod. Fertil. 68, 91-96
- MORTIMER, D., PANDYA, I.J., SAWERS, R.S. (1986):
Standardization and quality control of sperm concentration and sperm motility counts in semen analysis.
Hum. Reprod. 1, 299-303
- MORTIMER, D., MORTIMER, S.T., SHU, M.A., SWART, R. (1990):
A simplified approach to sperm-cervical mucus interaction testing using a hyaluronate migration test.
Human Reprod. Oct. 5, 835-841
- MORTON, D.B. (1977):
The occurrence and function of proteolytic enzymes in the reproduction tract of mammals.
In: BARRETT, A.J. (Hrsg.): Proteinases in Mammalian Cells and Tissues. Res. Monographs in Cell and Tissue Physiol. 2 , 455

MÜLLER, Z. (1987):

Practicalities of insemination of mares with deep-frozen semen.

J. Reprod. Fertil. 35, 121-125

MÜLLER-ESTERL, W., WENDT, V., LEIDL, W., FRITZ, H. (1983):

Intra-acrosomal inhibition of boar acrosin by synthetic protease inhibitors.

J. Reprod. Fertil. 67, 13

MURASE, T., OKUDA, K., SATO, K. (1990):

Assessment of bull fertility using a mucus penetration test and a human chorionic gonadotrophin stimulation test.

Theriogenology 34, 801-812

NEHRING, H. (1989):

Untersuchungen zum Akrosin-System von Bullen-, Eber- und Schafbockspemien.

Arch. Exp. Veterinärmed. 45, 5-14

NICANDER, L., BANE, A. (1966):

Fine structure of the sperm head in some mammals, with particular reference to the acrosome and the subacrosomal substance.

Mikrosk. Anat. 72, 296-315

NISHIKAWA, Y. (1959):

Studies on reproduction in horses.

Jap. Racing Assoc., Tokyo, 250-257

PACE, M.M., SULLIVAN, J.J., ELLIOT, F.I., GRAHAM, E.F., COULTER, G.H.

(1981):

Effects of thawing temperature, number of spermatozoal quality on fertility of bovine spermatozoa packaged in 5 ml French straws.

J. Anim. Sci. 53, 693-701

PARRISH, R.F., POLAKOVSKI, K.L. (1979):

Mammalian sperm proacrosin/acrosin system.

Int. J. Biochem. 10, 391

- PENN; A., GLEDHILL, B.L., DARZYNKIEWICZ, Z. (1972):
Modification of the gelatin substrate procedure for demonstration of acrosomal proteolytic activity.
J.Histochem. Cytochem. 20, 499
- PURSEL, V.G., JOHNSON, L.A., RAMPACEK, G.B. (1972):
Acrosome morphology of boar spermatozoa incubated before cold - shock.
J. Anim. Sci. 34, 278-283
- QUINN, P.J. (1985):
A lipid-phase separation model of low-temperature damage to biological membranes.
Cryobiology 22, 128-146
- RECHMANN I., INSLER, V., SERR, D.M. (1973):
A modified in vitro spermatozoal penetration test. II. Application to fertility investigations.
Int. J. Fert. 18, 241-245
- REINEKE, A., HESS, O., SCHAMBONY, A., PETROUNKINA, A. M., BADER, H., SIEME, H., TÖPFER-PETERSEN, E. (1999):
Sperm-associated seminal plasma proteins – A novel approach for the evaluation of sperm fertilizing ability of stallion?
Pferdeheilkunde 15, 531-537
- RUMKE, P. (1954):
The presence of sperm antibodies in the serum of two patients.
Vox Sang 4, 135
- SAACKE, R.G. (1970):
Morphology of sperm and its relationship to fertility.
Proc. 3rd Techn. Conf. Anim. Reprod. A. I. Nat. Assoc. Anim. Breed, Chicago: 17-30

SAACKE, R.G. (1982):

Components of semen quality.

J. Anim. Sci. 55, 1-13

SAACKE, R.H., MARSHALL, C. E. (1968):

Observations on the acrosomal cap of fixed and unfixed bovine spermatozoa

J. Reprod. Fertil. 16, 511-514

SAACKE, R.G., WHITE, J.M. (1972):

Semen quality tests and their relationship to fertility.

Proc. 4th Tech. Conf. A. I. and Reprod., N.A.A.B., Chicago, 22

SACHS, L. (1997):

Angewandte Statistik.

Springer-Verlag, Berlin, 8. Auflage

SCHILL, W.-B. (1990):

Determination of active, non-zymogen acrosin, proacrosin and total acrosin in different andrological patients.

Arch. Dermatol. Res. 282, 335-342

SCHILLING, E., VENGUST, M. (1984):

Spermaqualität von Besamungsebern und die Konservierungsfähigkeit ihrer Spermien.

Zuchthyg. 19, 57-69

SCHLEUNING, W.D., FRITZ, H. (1975):

Sperm acrosin.

Methods in Enzymol. 27, 330

SIMS, J.M. (1866):

Uterine surgery.

Wm. Woods, New York

SINGER, S.J., NICHOLSON, G.L. (1972):

The fluid mosaic model of the structure of cell membranes.

Science 175, 720-731

SMITH, A.U., POLGE, C. (1950):

Survival of spermatozoa at low temperatures.

Nature 166, 668-669

SPRECKELS, I. (1994):

Untersuchungen zur Samenzell-Selektion mittels Glaswollsephadexfiltration bei Hengstsperma unter besonderer Berücksichtigung der Kryokonservierung.

Diss. med. vet., Hannover

STAMBOUGH, R., BUCKLEY, J. (1968):

Zona pellucida dissolution enzymes of the rabbit sperm head.

Science, 161, 585-586

STAMBOUGH, R. (1978):

Enzymatic and morphological events in mammalian fertilization.

Gamete Res. 1, 65

TALBOT, P., CHACON, R. S. (1981):

A triple-stain technique for evaluating normal acrosome reactions of human sperm.

J. Exp. Zool. 215, 201-208

TISCHNER, M. (1979):

Evaluation of deep frozen semen in stallions.

J. Reprod. Fertil. 27, 53-59

TÖPFER-PETERSEN, E., FLÖRKE-GERLOFF, S., BILTZ, S., ENGEL, W. SCHILL, W.-B. (1984):

Einige Aspekte zur Biochemie und Physiologie des Spermatozoenakrosoms.

In: SEMM, K., LEIDL, E., RÜSSE, M., METTLER, L.: Verhandlungsbericht der VIII. Veterinär-Humanmedizinischen Gemeinschaftstagung, 17.-19.2.1983,

München, 102-106

TÖRÖK, L. (1973):

Darstellung der proteolytischen Aktivität von Spermatozoen mit Hilfe der Gel-filmsubstrat- Methode.

Andrologia 6, 341

TUMMON, J.S., YUZPE, A.A., DANIEL, S.A.J., DEUTSCH, A. (1991):

Total acrosin activity correlates with fertility potential after fertilization in vitro.

Fertil. Steril. 56, 933-938

VAN DUIJN, C. (1971):

Beziehungen zwischen den Eigenschaften des Samens und der Befruchtungsfähigkeit.

Dtsch. Tierärztl. Wochenschr. 78, 134-139

VAN DUIJN, C. , HENDRIKSE, J. (1968):

Rational analysis of seminal characteristics of stallions in relation to fertility.

Rapp. Inst. Veeteeltkundig Onderzoek `Schoonoord` Nr. B97

VARNER, D.D., WARD, C.R., STOREY, B.T., KENNEY, R.M. (1987):

Induction and characterisation of acrosome reaction in equine spermatozoa.

Am. J. Vet. Res. 48,1383-1388

VENGUST, M. (1983):

Untersuchungen zur osmotischen Resistenz von Eberspermien und die Ermittlung eines osmotischen Resistenzwertes zur Beurteilung der Konservierungsfähigkeit von Ejakulaten.

Diss. med. vet., Hannover

VESELSKY, L., JANAKOVA, V., CECHOVA, D. (1985):

A Kunitz type of proteinase inhibitor from boar seminal vesicle fluid.

Andrologia 17, 352

VIDAMENT, M., COGNARD, E., YVON, J. M., SATTLER, M., PALMER, E.,

MAGISTRINI, M. (1998):

Evaluation of stallion semen before and after freezing.

Reprod. Dom. Anim. 33, 3-4, 271-277

VIEIRA, R.Ch. (1980):

Akrosinbestimmung an Pferdespermien unter besonderer Berücksichtigung bestimmter andrologischer Fragestellungen.

Diss. med vet., Hannover

VOLKMANN, D.H. (1987):

Acrosomal damage and progressive motility of stallion semen frozen by two methods in 0,5 ml straws.

Theriogenology 27, 689-698

VOSS, J.L., PICKETT, B.W., SQUIRES, E.L. (1981):

Stallion spermatozoal morphology and motility and their relationship to fertility.

J. Am. Vet. Med. Assoc. 178, 287-289

WALDSCHMIDT, M., HOFFMANN, B., KARG, H. (1966):

Untersuchungen über die tryptische Enzymaktivität in Geschlechtssekreten von Bullen.

Zuchthyg. 1 , 15

WATSON, P.F., PLUMMER, J.M. (1985):

The response of boar sperm membranes to cold shock and cooling.

1. Int. Conf. on Deep Freezing of Boar Semen, Uppsala 1985, Ber., 113-127

WEITZE, K. F. (1977):

Gefrierschädigung und Gefrierschutz im Rahmen der Tiefgefrierkonservierung lebenden Materials unter besonderer Berücksichtigung der Säugetierzahnelle.

Dtsch. Tierärztl. Wochenschr. 84, 402-408, 441-446, 481-484

WELKER, B., BERNSTEIN, G.S., DIEDRICH, K., NAKAMURA, R.M., KREBS, D. (1988):

Acrosomal proteinase activity of human spermatozoa and relation of results to semen quality.

Human Reprod. 3, 75-80

WENDT, V. (1974):

Akrosinbestimmung bei Bullenspermien unter besonderer Berücksichtigung des einzelnen Spermiums.

Diss. med. vet. München

WENDT, V., LEIDL, W., FRITZ, H. (1974):

The lysis effect of bull spermatozoa on gelatine substrate film. Methodical investigations.

Hoppe-Seyler's Z. Physiol. Chem. 356, 316-322

WENDT V., LEIDL, W., FRITZ, H. (1975):

The influence of various proteinase inhibitors on the gelatinolytic effect of ejaculated and uterine boar spermatozoa.

Hoppe-Seyler's Z. Physiol. Chem. 356, 1073-1078

WHITE, I.G., WALES, R.G. (1960):

The susceptibility of spermatozoa to cold shock.

Int. J. Fert. 5, 195-201

WILSON, L. (1954):

Sperm agglutinins in human semen and blood.

Proc. Soc. Exp. Biol. Med. 85, 652

ZANEVELD, L.J.D. (1975):

The acrosome of mammalian spermatozoa.

In: HAFEZ, E.S.E. (Hrsg.): Scanning electron microscopic atlas of mammalian reproduction. Thieme, Stuttgart, 58-81

ZANEVELD, L.J.D., POLAKOSKI, K. L., SCHUMACHER, G.F.H. (1973):

Properties of acrosomal hyaluronidase from bull spermatozoa: Evidence for its similarity to testicular hyaluronidase.

J. Biol. Chem. 248, 546-553

ZELESNA, B. (1980):

Inhibitory properties of bull seminal plasma proteinase inhibitors.

Hoppe Seyler's Z. Physiol. Chem. 361, 461

ZIEGLER, R. (1991):

Computervideomikrographische Beurteilung von Hengstsperma vor und nach der Tiefgefrierkonservierung mit eidotterhaltigem Verdünner.

Diss. med. vet. München