

2017

# Institute for Human Reproduction

Copenhagen Fertility Center

## Synopsis (short version)

The Section for Human Reproduction is involved in education, teaching, training and research within mammalian reproduction.

In the years 1999 to 2017 funding has been raised for research, more than 23 research protocols have been approved, many papers have been published in peer reviewed journals, there has been numerous oral presentations, lectures etc., and a formal collaboration with many international IVF centres in the world. Furthermore, 8 patents have been acquired during this period and 3 theses (1 doctors and 2 Ph.D.) have been obtained.

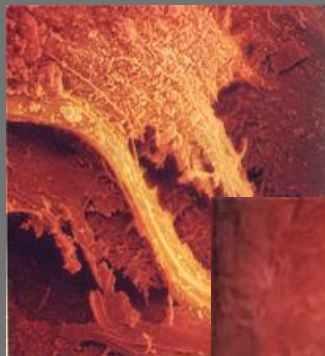


Illustration shows the first attachment and implantation by human blastocyst in vitro from the thesis by Svend Lindenberg.

Photographer Lennart Nilsson



**THE UNIT HAS SUPPORTED RESEARCH,  
TREATMENT AND EDUCATION SINCE 1982.**



**WE DO MORE THAN 2000 IVF RELATED  
CYCLES PER YEAR**

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YEAR**

## CFC SECTION FOR HUMAN REPRODUCTION



The Section for Human Reproduction has the vision to generate knowledge in human reproductive biology and hereby be a leading institution for implementing new treatments to benefit infertile couples. This is carried out through careful handling of patients, research projects, teaching and international collaboration.

### VISION

#### INTRODUCTION

The Section for Human Reproduction in Copenhagen was founded in 1982 in the Chromosome lab at Rigshospitalet, Copenhagen University, where the first IVF baby was created in Denmark in 1983. The lab was further developed into a research unit as a result of a long lasting scientific collaboration and research between the Department of Obstetrics and Gynaecology, Section for Reproductive Biology and IVF at Herlev Hospital and The Ciconia Fertility Clinics and pharmaceutical industries. Today it consists of collaboration between the Copenhagen University, Copenhagen Fertility Center and several pharmaceuticals - medical industries including veterinary medicine. Further we have initiated research collaboration with the Eugin group in Barcelona.



#### PRIMARY RESEARCH AREAS

- Mild or natural stimulation is a focus research project in the institute. We are one of the largest research lab for mild stimulation in Europe.
- PCO and inflammation is a research area where we focus on the interaction of insulin resistance, inflammation, microbiome and fertility.
- Sperm and oocyte apoptosis studies. Following this research better selection criteria for unexplained fertility and oligospermic men have been introduced prior to IVF/ICSI.
- Clinical phase I, II and III pharmaceutical trials.
- Allergy and unexplained infertility.



**The section is responsible for postgraduate education and training in human reproductive biology i.e.**

- International and national universities and pharmaceutical companies
- MicroRNA in Endometriosis and oocyte development in humans
- Internal database and e-learning
- Reproduction and immunology

We highly appreciate the many visitors from more than 20 different countries visiting our clinic every year, especially the colleagues coming for training and research.

Members of the staff are GCP-educated and have passed the national boards of examination. The section has been through a FDA audit training program and tests by the pharmaceutical industries, including accreditations for EU tissue regulative and has been ISO Certified for our clinical activities

## **FUNDRAISING**

Fundraising from external sources is a vital part of the units' work



## **ONGOING RESEARCH COLLABORATION WITH:**

- Copenhagen University, Copenhagen
- Create Fertility Clinic , UK

## **VISITING SCIENTIFIC STAFF 2007-2017**

- Edurne Novella Post Doc in Nordica, Valenca IVI clinic (IVM project)
- Prof. Dr. Salam Omar Jibrel MD Head of OB-GYN Department Bahrain Specialist Hospital Manama, Bahrain (Cryo biology)
- Lec. Ph.D Gail Jones Researcher, Monash University (IVM project)
- Dr. Sören von Otte, Lübeck IVF Clinic (IVM project)
- Associate Professor cand. Med. Vet Ph.D Nicolai Jarløv, Hørsholm Hestepraksis, Denmark
- Associated Professor Finn Hald, Head of Department for Reproductive Biology, Brædstrup, Denmark
- More than 260 doctors, embryologists in the Fertility School'
- Geeta Narguund, Chairman for ISMAAR, UK
- Professor dr. med Matts Brennstrom, Göteborg.
- Professor Guang Xiu Lu, China
- Dr. Nie Hongchuan, China
- Alejandro Fernandez Ponce, Post Doc at CFC.
- Olga Zaytseff AVA clinic St Petersburg
- Caral Ponns, Spain, Post doc in the clinic



ISMAAR board member visiting the clinic



ISIVF World Congress in Copenhagen 2015

## PUBLICATIONS 1999 – 2017



**SVEND LINDENBERG EXPLAINS VIBEKE STORM RASMUSSEN AND SVEN HARTLING A RESEARCH PROJECT.**

Gabrielsen A, Bhatnager P, Petersen K, Lindenberg S.  
**Influence of zona pellucida thickness of human embryos on clinical pregnancy outcome following in vitro fertilization treatment.**  
Journal of Assisted Reproduction and Genetics, Vol. 17, No. 6, 2000.

Gabrielsen, A, Lindenberg S, Petersen. K.  
**The impact of the Zona Pellucida Thickness Variation of human embryos before transfer on pregnancy outcome. A randomized prospective study.**  
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Hildebrandt N, Høst E, Mikkelsen AL.  
**Pain experience during transvaginal aspiration of immature oocytes for IVM.**  
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**DNA strand breaks in human spermatozoa; A possible factor, to be considered in couples suffering from unexplained infertility.**  
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**DNA strand breaks in human spermatozoa: Correlation with fertilization in vitro in oligozoospermic men and in men with unexplained infertility.**  
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**The role of DNA strand breaks in human spermatozoa used for IVF and ICSI.**  
Acta Obstetrica et Gynecologica Scandinavia 2000; 79: 559-563.

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**Apoptosis in human cumulus cells in relation to maturation stage and cleavage of the corresponding oocyte.**  
Acta Obstetrica et Gynecologica Scandinavia 2000; 79: 936-940.

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**Morphology of spermatozoa used in IVF and ICSI from oligozoospermic men.** Reproductive Biomedicine Online 2001, vol. 3, no. 3: 212-215.

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Human Reprod. 1999; 14:1847-1851.

Mikkelsen AL, Smith S, Lindenberg S.  
**Impact of oestradiol and inhibin A concentrations on pregnancy rate in in-vitro oocyte maturation.**  
Human Reprod. 2000; 14, no. 8: 1685-1690.

Mikkelsen AL, Lindenberg S, Smith S.  
**Possible factors affecting the development of oocytes in in-vitro maturation.**  
Human Reprod. 2000; 15 (suppl. 5): 11-17.

Mikkelsen AL, Andersson A-M, Skakkebæk, NE, Lindenberg S.  
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**Morphology of in-vitro matured oocytes: impact on fertility potential and embryo quality.** Human Reprod. 2001; 16, no. 8: 1714-1718.

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Hjollund NH, Bonde JP, Ernst E, Lindenberg S, Andersen AN, Olsen J.

**Pesticide exposure in male farmers and survival of *in vitro* fertilized pregnancies.**

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Mikkelsen AL, Host E, Lindenberg S.

**Incidence of apoptosis in granulosa cells from immature human follicles.**

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Olesen C, Silber J, Eiberg H, Ernst E, Petersen K, Lindenberg S, Tommerup N.

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Rygaard K, Lindenberg S.

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Acta Obstet Gynecol Scand. 2002 May;81(5):383-8. Review.

**Atching improves implantation rates on cryopreserved-thawed embryos.**

**A randomized prospective study.**

Hum Reprod. 2004 Oct;19(10):2258-2262. Epub 2004 Aug 19.

Lindenberg S, Mikkelsen AL, Rygaard K.

**Embryonale stamceller - hvorfor skal vi vide noget om dem?**

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***In vitro* steroidogenesis and gonadotropin responsiveness in human granulosa cells from immature follicles of normal and polycystic ovary syndrome (PCOS) ovaries.**

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Svend Lindenberg, Hanne Udegaard, Best Practice vol. 1, 2007

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Corifollitropin Alfa Dose-finding Study Group Hum Reprod. 2008 Nov;23(11):2484-92.  
Collaborators: Abyholm T, Andersen AN, Balen AH, Braat DD, Devroey P, D'Hooghe TH, Felberbaum R, Fauser BJ, Fridström M, Hillensjö T, Keck C, Kurunmäki H, Lindenberg S, Ombelet W, Tapanainen J, Varila E, Wramsby H, Koper NP, de Haan AF, Struys MJ.

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Copenhagen University, Erik Høst April 2011

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M Munk, S Smidt-Jensen, J Blaabjerg, C Christoffersen, S Lenz, S Lindenberg HUMAN REPRODUCTION 25, I244-I244, 2010

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**progesterone tablets for luteal support after in vitro fertilization/intracytoplasmic sperm injection**

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**Low Ovarian Stimulation Using Tamoxifen/FSH Compared to Conventional IVF: A Cohort Comparative Study in Conventional IVF Treatments**

FB Lindenberg, GJ Almind, S Lindenberg Reprod Sys Sexual Disorders S 5, 2, 2013

**New approach in patients with polycystic ovaries, lessons for everyone**

S Lindenberg Fertility and Sterility 1' 2013

**Differential expression of inflammation-related genes in the ovarian stroma and granulosa cells of PCOS women**

J Schmidt, B Weijdegård, AL Mikkelsen, S Lindenberg, L Nilsson, ... Molecular human reproduction 20 (1), 49-58 , 2013

**Female asthma has a negative effect on fertility: what is the connection?**

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**Asthma affects time to pregnancy and fertility: a register-based twin study**

EJ Gade, SF Thomsen, S Lindenberg, KO Kyvik, S Lieberoth, V Backer European Respiratory Journal 43 (4), 1077-1085, 6 2014

**The effect of liraglutide on weight loss in women with polycystic ovary syndrome: an observational study**

CB Rasmussen, S Lindenberg, Frontiers in endocrinology 5, 140 , 15 2014

**Lower values of VEGF in the endometrial lining are a possible cause of reduced fertility in asthmatic patients**

EJ Gade, SF Thomsen, S Lindenberg, N Macklon, V Backer European Respiratory Journal 44 (Suppl 58), P4076, 2014

**Lower values of VEGF in endometrial secretion are a possible cause of subfertility in non-atopic asthmatic patients**

EJ Gade, SF Thomsen, S Lindenberg, NS Macklon, V Backer Journal of Asthma 52 (4), 336-342, 1 2015

**A multi-centre phase 3 study comparing efficacy and safety of Bemfola® versus Gonaf® in women undergoing ovarian stimulation for IVF**

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**Method for the preparation of micro-RNA and its therapeutic application**

F Velin, S Lindenberg US Patent 9,078,914 2015

**Fertility outcomes in asthma: a clinical study of 245 women with unexplained infertility**

EJ Gade, SF Thomsen, S Lindenberg, V Backer European Respiratory Journal, ERJ-01389-2015, 2016

**Coexistence of asthma and polycystic ovary syndrome : A concise review.** / Zierau, Louise; Gade, Elisabeth Juul; Lindenberg, Svend; Backer, Vibeke; Thomsen, Simon Francis.

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**Long acting luteinizing hormone (lh) compound**

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**PhD Thesis; PCO and Asthma: is there an association.** Louise Zierau. 22. Marts 2018.

**The risk of asthma is increased among patients with polycystic ovary syndrome: a population-based twin study.** L. Zierau, H. Meteran, V. Backer, S Lindenberg, A Skytthe, SF Thomsen,

Submittet European Respiratory Journal

**Asthma severity and fertility outcome in women with PCOS: a register based study.** L. Zierau, R Cortes, SF Thomsen, E. Jimenez-Solem, S Lindenberg, V Backer. Submittet

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**CHAPTERS IN BOOKS**

Mikkelsen AL. Oocyte maturation in vivo and in-vitro. Chapter in the book: Advances in Fertility and Sterility. 2001

Mikkelsen AL, In vitro maturation of human ova. Chapter in the book. Advances in Fertility and Reproductive medicine. 2004. International Congress Series 1266.

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Lindenberg S. **Endometrial Cavity Fluid Collection Aspiration at time of ET.** Dr. Gautam Allahbadia's forthcoming monogram on

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Gabrielsen A, Lindenberg S. **The Human Zona Pellucida and Markers of Viability.** Handbook on choosing the right embryo. Ed Kay Eldder & Jacque Cohen, Medical Publishing Division of Taylor Francis, to be published in 2007

S.Lindenberg: **In vitro maturation in the future.** In: Advances in fertility studies and reproductive medicine, IFFS, 2007, Editor TF Krüger, Z van der Spuy, RD Kempers.

**POSTERS/LECTURES**

Bangsboell S, Mikkelsen AL, Lindenberg S. **Karyotyping of male patients before ICSI.** Poster. 13<sup>th</sup> Nordic IVF Congress in Reykjavik Iceland in August 2<sup>nd</sup> – 5<sup>th</sup>, 2000.

Gabrielsen A, Lindenberg S, Petersen S **Assessment of embryo morphology in selection for embryos transfer and freezing in 26 Nordisk Scandinavian clinics: Impact on implantation rates** Poster. IVF kongres i Kuusamo, Finland, januar 1999.

Gabrielsen A. **Embryo morfologi. Har zona analyse betydning for graviditet.** Foredrag. Dansk Fertilitetsselskabs årsmøde, Odense, Danmark 1999

Gabrielsen A. **PGD – en undersøgelse af 63 biopsede embryoer med dårlig embryo score.** Foredrag. Dansk Fertilitetsselskabs årsmøde, Odense, Danmark 1999

Gabrielsen A, Munk M. **Hvad betyder modning, kernetransplantation, cytoplasmadonation** Foredrag. Organon's fertilitetsskole, Herlev, Danmark 1999

Gabrielsen A, Munk M. **Hvad betyder modning, kernetransplantation, cytoplasmadonation** Foredrag. Organon's fertilitetsskole, Skejby, Danmark 1999

Gabrielsen A. **Mandlig infertilitet i dag**

Foredrag. Organon's fertilitetsskole, Herlev, Danmark 1999

Gabrielsen A **Assisted Hatching** Foredrag. Dansk Fertilitetsselskabs årsmøde, Odense, Danmark 2000

Gabrielsen A, Palmstiarna M. **Embryokvalitet Embryoscore, ZPTV, symmetri i embryoer** Foredrag. Organon's fertilitetsskole, Skejby, Danmark 2000

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Gabrielsen A, Lindenberg S, Bhatnager PR, Petersen K. **Influence of zona pellucida thickness of human embryos on clinical pregnancy outcome following IVF treatment** Poster. 13<sup>th</sup> Nordic IVF Congress in Reykjavik Iceland in August 2<sup>nd</sup> – 5<sup>th</sup>, 2000.

Hildebrandt N **The pain conception during IVM oocyte pick-up procedure.** Poster. 13<sup>th</sup> Nordic IVF Congress in Reykjavik Iceland in August 2<sup>nd</sup> – 5<sup>th</sup>, 2000.

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Høst E, Lindenberg S, Smidt-Jensen S, Ernst E. **DNA strand breaks in human spermatozoa.** Poster. 16<sup>th</sup> Annual Meeting of the European Society of Human Reproduction and Embryology.

Bologna, Italy June 25<sup>th</sup> to 28<sup>th</sup>, 2000.

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**Apoptosis in human cumulus cells.**

Poster. 13<sup>th</sup> Nordic IVF Congress in Reykjavik Iceland in August 2<sup>nd</sup>–5<sup>th</sup>, 2000.

Høst, E.

**Time interval between FSH administration and aspiration of immature human oocytes for in vitro maturation, impact on the development of oocytes and the incidence of apoptosis in granulosa cells.**

Poster. 14<sup>th</sup> Nordic IVF Congress in Lillehammer, Norway, January 2002.

Høst, E.

**IVF- hvorfor og hvordan ?**

Foredrag. Logeforeningen "The Inner Circle", Møn, September 2002.

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**Udførelse og tolkning af testosteronmåling.**

Foredrag. Andropauseseminar, Skejby Sygehus, 1. Oktober, 2002.

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**Apoptosis in spermatozoa in men with schistosomiasis.**

Foredrag. Uro-Genital Schistosomiasis and sexually transmitted infections: The Madagascar Study, Rigshospitalet, 16.-17. december, 2002

Lindenberg S, Mikkelsen AL.

**Novel approaches: in vitro maturation of oocytes and follicles.**

Foredrag. The Bertarelli Foundation First Global Conference. Maryland USA. 1999.

Mikkelsen AL, Smith SD, Lindenberg S.

**In vitro maturation of human oocytes. The impact of FSH priming and time interval for maturation.**

Foredrag. XII Nordic IVF-Congress Kuusamo, Finland, January, 1999. (invited speaker).

Mikkelsen AL, Smith SD, Lindenberg S.

**Factors affecting in vitro maturation of human oocytes.**

Foredrag. The 2<sup>nd</sup> International Alpha Congress. Copenhagen, Denmark. 1999.

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**In vitro maturation of human oocytes. The impact of FSH priming and time interval for maturation.**

Poster. 15<sup>th</sup> Annual meeting of ESHRE. Tours, Frankrig 1999 (selected for presentation).

Mikkelsen AL, Smith SD, Lindenberg S.

**In vitro maturation of human oocytes.**

Foredrag ved staff-meeting, KASHerlev, 1999.

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**In vitro maturation of oocytes.**

Foredrag. XXXII NFOG, Oslo, May 2000.

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**In vitro maturation of human oocytes.**

Foredrag. XVI FIGO World Congress, Washington: Plenary: Reproductive Medicine, Egg and embryo, August 2000.

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**Timing of aspiration promotes pregnancy rate in IVM**

Poster. Forskningsdagen Københavns Amtssygehus i Herlev, October, 2000.

Mikkelsen AL. **Clinical aspects of IVM.** Invited speaker. XIV Nordic IVF Congress. Lillehammer 2002.

Mikkelsen AL, Høst E, Blaabjerg J and Lindenberg S **Time interval between FSH administration and aspiration of immature human oocytes for in-vitro maturation, impact on the development of oocytes and the incidence of apoptosis in granulosa cells. A prospective randomized study.** 18<sup>th</sup> Annual meeting ESHRE Wien 2002.

Mikkelsen AL, Ravn SH, Lindenberg S. **Evaluation of newborns delivered after in vitro maturation.** 19<sup>th</sup> Annual meeting ESHRE Madrid 2003.

Mikkelsen AL. **Clinical aspects of IVM.** XV Nordic IVF Meeting Helsingør, Denmark 2003.

Mikkelsen AL. **Evaluation of newborns delivered after in vitro maturation.** XV Nordic IVF Meeting Helsingør, Denmark 2003. Invited speaker.

Mikkelsen AL. **In vitro maturation.** IFFS 18<sup>th</sup> world congress on Fertility and Sterility, Montreal May 2004. Invited speaker in the Trilogy: Current developments in assisted reproduction.

IVF lecture Sweden. Inviteret foredragsholder. **Clinical aspects of in vitro maturation of human oocytes.** 2 dage i Stockholm og Gøteborg.

Mikkelsen AL. **Strategies in human IVM and their clinical outcome.** Invited speaker in the Symposium: Assisted Conception and Reproductive Biology: Two perspectives One Vision. Bologna November 2004. Invited speaker.

Mikkelsen AL. **In vitro maturation.** First World congress on in vitro maturation. Montreal 2004. Invited speaker.

Mikkelsen AL. **Children born after IVM.** International symposium on In vitro maturation. Berlin 2004. Invited speaker.

Mikkelsen AL. 7<sup>th</sup> world congress on Controversies in Obstetrics and Gynecology and Infertility. Athen 2005. Invited speaker til 2 foredrag.

Mikkelsen AL. Second world congress on In vitro maturation. Montreal 2005. Invited speaker.

Munk M

**IVF-Manual and Quality Check.**

Foredrag. Dansk Fertilitets Selskabs årsmøde, Denmark 1999.

Munk M

**Etablering af en forskningsenhed.**

Foredrag. Dansk Fertilitets Selskabs årsmøde, Denmark 2000.

Munk M

**The impact of ZPTV in human embryos on pregnancy in IVM cycles.**

Poster. 13<sup>th</sup> Nordic IVF Congress in Reykjavik Iceland in August 2<sup>nd</sup> – 5<sup>th</sup>, 2000.

Munk M

**Etiske dilemmaer ved reagensglasbehandling.**

Foredrag. Nordisk Medicinsk laboratorie Kongres, Denmark 2001.10.30

Mikkelsen AL, Høst E, Blaabjerg J and Lindenberg S **Time interval between FSH administration and aspiration of immature human oocytes for in-vitro maturation, impact on the development of oocytes and the incidence of apoptosis in granulosa cells. A prospective randomized study.** 18<sup>th</sup> Annual meeting ESHRE Wien 2002.

Mikkelsen AL, Ravn SH, Lindenberg S. **Evaluation of newborns delivered after in vitro maturation.** 19<sup>th</sup> Annual meeting ESHRE Madrid 2003.

Mikkelsen AL. **Clinical aspects of IVM.** XV Nordic IVF Meeting Helsingør, Denmark 2003.

Mikkelsen AL. **Evaluation of newborns delivered after in vitro maturation.** XV Nordic IVF Meeting Helsingør, Denmark 2003. Invited speaker.

**HERAFTER 60 POSTERS IN INTERNATIONAL CONFERENCES ON IVM/IVF**

## TEACHING

Mikkelsen AL. ESHRE Campus Workshop. GRECOT meeting. **Harvesting and freezing of ovarian and testicular tissue.** Invited speaker and participant in the workshop for 2 days. November 2003

Mikkelsen AL. VF lecture Sweden. Inviteret foredragsholder. **Clinical aspects of in vitro maturation of human oocytes.** 2 dage i Stockholm og Gøteborg.

Mikkelsen AL. ESHRE embryology Pre-congress Course on **In vitro culture conditions for Human Gametes and embryos: Present and Future.** Deltog med emnet. In vitro maturation of human oocytes. Clinical experience. Berlin 2004

Mikkelsen AL. **Strategies in human IVM and their clinical outcome.** Invited speaker in the Symposium: Assisted Conception and Reproductive Biology: Two perspectives One Vision. Bologna November 2004.

Mikkelsen AL. IVF doctors in the laboratory. Nordisk IVF kursus for IVF læger. Raanæs, Sverige. 2002 – 2004 i alt 4 kurser for nordiske læger. kursusarrangør og underviser.

Mikkelsen AL. IVM Workshop forelæser og underviser på i alt 3 internationale kurser om IVM.

A.L.Mikkelsen, S.Lindenberg, H.J.Out, T. Gar-Geva, D.L.Healy, A.L.Leader, F.J. Rodriques-Escudero, J.A. Garcia-Velasco, A.Pellicer. **Comparable pregnancy rates in a randomized prospective study comparing Puregon 100 IU ND Puregon 200 IU in a fixed-dose regime in IVF treatment.** Nordic IVF Congress, Kuusamo, Finland 1999.

A.L.Mikkelsen, S.Smidt, S.Lindenberg. **In vitro maturation of human oocytes. The impact of FSH-priming and time interval for maturation.** Nordic IVF Congress, Kuusamo, Finland 1999.

Mikkelsen AL. **In vitro maturation. IFFS 18<sup>th</sup> world congress on Fertility and Sterility, Montreal May 2004.** Invited speaker in the Trilogy: Current developments in assisted reproduction.

Mikkelsen AL. **Follow-up of children after in vitro maturation. First International Symposium on In vitro maturation of oocytes.** Berlin 2004. Foredrag

**WHEN IS ENOUGH ENOUGH?**

Pregnancy rate and cost-effectiveness of 3 times homologous intrauterine insemination (IUI) vs. 1 time mild ovarian stimulation IVF.

Cissé, A; Zierau, L; Lindenberg S; ESHRE 2016, Poster

**How low can you go? – Cut-off limit for IUI in mill/ml**

L.Zireau, S. Lindenberg, ESHRE, 2016, Poster

Ø.Lidegaard, A.L.Mikkelsen, M.Melgaard, K.Brøndum-Nielsen, S.Lindenberg.

**Severe male infertility. Impact of genetic factors on diagnosis and counselling.** Nordic IVF Congress, Kuusamo, Finland 1999.

A.L.Mikkelsen, S. Smith, S.Lindenberg. **In vitro maturation of human oocytes.** Annual meeting of ESHRE, Tours, France, 1999. A.L.Mikkelsen, S.Lindenberg, H.J.Out, T. Gar-Geva, D.L.Healy, A.L.Leader, F.J. Rodriques-Escudero, J.A. Garcia-Velasco, A.Pellicer. **Comparable pregnancy rates in a randomized prospective study comparing Puregon 100 IU ND Puregon 200 IU in a fixed-dose regime in IVF treatment.** Annual meeting of ESHRE, Tours, France, 1999.

S.Lindenberg, A.L. Mikkelsen. **Novel approaches: in vitro maturation of oocytes and follicles.** The Bertarelli Foundation First Global Conference, Maryland USA. 1999.

A.L.Mikkelsen, S.Lindenberg. **Factors affecting in vitro maturation of human oocytes.** The 2th International Alpha Congress, Copenhagen 1999.

A.Gabrielsen, S.Lindenberg, K.Petersen. **Assesment of embryomorphology in selection for embryo transfer and freezing in 26 Nordic clinics.** Nordic IVF Congress, Kuusamo, Finland 1999.

A.L.Mikkelsen, S.Lindenberg. **Timing of aspiration promotes pregnancy rate in IVM. the impact of the concentration of estradiol and inhibin A.** 16<sup>th</sup> Annual meeting (ESHRE), Bologna, 2000.

S.Bangsbøll, A.L.Mikkelsen, S.Lindenberg. **Karyotyping of male patients before ICSI.** Nordic IVF Congress Island 2000.

E.Høst, S.Lindenberg, S. Smith-Jensen, E. Ernst. **DNA strand breaks in human spermatozoa.** Nordic IVF Congress Island 2000.

A. Gabrielsen, S.Lindenberg, P.R. Bhatnager, K. Petersen. **Influence of zona thickness variation of human embryos on clinical pregnancy outcome.** Nordic IVF Congress Island 2000.

E.Høst, A.L.Mikkelsen, S.Lindenberg, S.Smidt-Jensen. **Apoptosis in human cumulus cells in relation to maturation stage and cleavage of the corresponding oocyte.** Nordic IVF Congress Island 2000.

E.Høst, S.Lindenberg, S. Smith-Jensen, E. Ernst. **DNA strand breaks in human spermatozoa.** 16<sup>th</sup> Annual meeting (ESHRE), Bologna, 2000.

S. Lindenberg. **Videnregnskab i en moderne gynækologisk afdeling.** DSOG efterårsmøde 17 – 18 November 2000

S.Lindenberg. **Videnregnskab.** Professor tiltrædelsesforelæsning ved Københavns Universitet december 2000.

S.Lindenberg. **Præimplantatorisk diagnostik, terapeutisk kloning.** DSOG forårsmøde 28 april 2001

S.Lindenberg. **Videnregnskab, et instrument i sygehusledelse.** Indkaldt foredragsholder ved afdelingsledelse og sygehusledelse Skejby Universitetssygehus 2000.

S. Lindenberg. **Novel approaches: In Vitro Maturation of oocytes and follicles.**The Bertarelli Foundation Global Conference. Improving the treatment of infertility – Towards avoiding high order multiple gestation.The National Institute of Health, Bethesda, Maryland USA, November 19-22, 1999.

S.Lindenberg.**Presentation af Øresundsregionens stamcelle projekt.** Nordisk Stamcellsmøde i Gøteborg. 11 juni 2000.

S.Lindenberg. **Forventninger til afdelingsledelse og niveauet under afdelingsledelse på Amtssygehuset i Herlev: opgaver, kvalifikationer og værdier.** ALF-møde og seminar for Herlev Amtssygehus, 20.01.2001

A.L.Mikkelsen, S.Lindenberg. Morphology of in-vitro matured oocytes: impact of fertility potential and embryo quality. 17<sup>th</sup> Annual meeting of the ESHRE, Lausanne, July 2001.

Svend Lindenberg. Symposium Womens Health Care 2004, Novo, Herlev Amtssygehus. **How to handle low responders in ART programs**

Svend Lindenberg. Symposium Womens Health Care 2004, Novo, Herlev Amtssygehus. **The advanced fertility treatment in the near future**

Svend Lindenberg. **What is so interesting about in vitro maturation ?** First International Symposium on In Vitro Maturation of Oocytes. Berlin June 26. 2004

Svend Lindenberg, Ole Hartling. **Stamcelleforskning og prænatal diagnostik.** Wyeth Undervisning for praktiserende læger 4 april 2005. Christianhavn

Svend Lindenberg, Invites speaker **New insights in stimulation protocols for Ovulation Induction.** Turkish German Fertility Society, Antalya 18. Marts 2005.

Svend Lindenberg. **Fertilitetsbehandling under de nye EU regler.** Fertilitetsklub møde for speciallæger. Glostrup Park Hotel 12. Nov. 2004

Svend Lindenberg. **Future in IVM, a new modality in ART.** Sjöberg-Symposium, Universitetssygehuset Malmø 3. Marts 2005

Svend Lindenberg. **IVM training, background, techniques and results of modern IVM treatment.** Herlev University Hospital. International Training Course in IVM. 11 marts 2005, 13, april 2005, 9 maj 2005, 14 December 2005.10.11

Svend Lindenberg invited speaker. **A review and teaching session for 2 days in IVM at the Taipei University Center.** Invited by Taiwanese Society for reproductive Medicine. 12. September 2005

Svend Lindenberg invited speaker. **IVM in all aspects.** The Jordanian Society for Fertility and Genetics, Workshop at Fahrar Hospital 7-9/9 2005

P.Humaidan, L. Bugum, M. Bugum, F. Hald, I Agerholm, J Blåberg, C.Yding Andersen, S.Lindenberg, ESHRE, Copenhagen 2005 **CRASH-A better protocol for stimulation of the low responder patient ?**

Lindenberg S. **IVM, Why, history, recommended criteria.** IVM – Workshop Universitätsfrauenklinik Lübeck, 28. november 2005

Lindenberg S. **IVM, the golden standard and future.** IVM – Workshop Universitätsfrauenklinik Lübeck, 29. november 2005

Lindenberg S. **Stamcelleforskning.** Key Note lecture, Forskningsdag ved Amtssygehuset i Herlev November 27. 2005

Mikkelsen AL, Ravn SH, Munk M. Lindenberg S. **Health status and development of children born after in vitro maturation of immature oocytes** Poster, Forskningsdag ved Amtssygehuset i Herlev November 27. 2005

A. Petersen, A.L. Mikkelsen, S. Lindenberg. Poster, Forskningsdag ved Amtssygehuset i Herlev November 27. 2005 **Oxygen tension and embryo development**

S.Lindenberg, C. Hnida. **Sperm preparation by filter, A new method.** Poster, Forskningsdag ved Amtssygehuset i Herlev November 27. 2005

H.Udengaard, Marianne Sandberg, H. Skensved, S. Lindenberg. **Transport IVF en ny og hensigtsmæssig behandlingsform.** Forskningsdag ved Amtssygehuset i Herlev November 27. 2005

Svend Lindenberg: **IVM satus of the art.** The Second World Congress on Mild Approaches in Assisted Reproduction, London 2006

DM Ottosen, Johnny Hindkjær, Svend Lindenberg, Hans Jakob Ingerslev. **Murine pre-embryoxygen consumption and developmental competence** ESHRE Lyon, 2007

Svend Lindenberg, **In vitro fertilisation in the future.** IFFS meeting Durban , SA 2007

Erik Høst, **DNA Strand Breaks in Human Spermatozoa, A possible new tool in ART,** Thesis, Copenhagen University, Denmark, 2011

**15th World Congress on In Vitro Fertilization, 4th World Congress on In Vitro Maturation** Geneve, Switzerland

Effect of maturation in vitro on spindle morphology in human oocytes Mette Munk, Svend Lindenberg april 2009.

ESHRE Amsterdam: **Effect of low oxygen tension on human blastocyst culture.** Mette Munk, Svend Lindenberg.

2. Congress of the society of Reproductive Medicine Oct. 2009 **IVM past and future**, Svend Lindenberg and Mette Munk.

2. Congress of the society of Reproductive Medicine Oct. 2009 **IVM laboratory aspects**, Mette Munk, Svend Lindenberg

Nordisk IVF Meeting 2009 august:  
**Spindel view in human oocytes**, Mette Munk

Nordisk IVF Meeting 2009 august.  
**Patient Friendly approach to oocyte pick-up procedure.**  
Suzan Lenz, Svend Lindenberg

Since then more than 30 international invited session in ART given by Svend Lindenberg from 2008 to 2015

## AWARDS

Svend Lindenberg has been awarded with the "**Commercialization Prize awards**" 2005 from the county mayor, Copenhagen

Awards for the **Best scientific presentation 2009**. 15th World Congress on In Vitro Fertilization, 4th World Congress on In Vitro Maturation, Geneva April 2009.

Svend Lindenberg's work on implantation has contributed to the Virtual Human Embryo, EDH. (<http://www.ehd.org/virtual-human-embryo/figure.php?stage=4&figure=4> )

## PATENTS ACQUIRED INTERNATIONAL

### 1 ASSAY TO INDICATE THE PRESENCE OF NON-FERTILISABLE OVA

Inventor: LINDENBERG SVEND (DK); MIKKELSEN ANNE LIS (DK) Applicant: MEDI CULT AS (DK)  
 EC: IPC: G01N33/68 ; G01N33/74  
 Publication info: SK19152000 - 2001-12-03

### 2 IN VITRO FERTILISATION

Inventor: LINDENBERG SVEND (DK) Applicant: KOEBENHAVNS AMTS SYGEHUS HERLEV (DK); LINDENBERG SVEND (DK)  
 EC: C12N5/06B4F; C12N5/06B2E; (+1) IPC: C12N5/06 ; C12N5/08 ; (+1)  
 Publication info: WO03106662 - 2003-12-24

### 3 Assay to indicate the presence of non-fertilizable ova

Inventor: LINDENBERG SVEND (DK); MIKKELSEN ANNE LIS (DK) Applicant: MEDI CULT AS (DK)  
 EC: C12N5/06B4F; G01N33/68T; (+1) IPC: G01N33/533  
 Publication info: US6649344 - 2003-11-18

### 4 A METHOD FOR IN VITRO MATURATION OF HUMAN GAMETES

Inventor: BERTHEUSSEN KJELL (DK); SMITH STEVEN DALE (DK); (+2) Applicant: MEDI CULT AS (DK)  
 EC: C12N5/06B4F IPC: C12N5/08  
 Publication info: US2002115211 - 2002-08-22

### 5 In vitro maturation of human oocytes in one day

Inventor: SMITH STEVEN DALE (DK); LINDENBERG SVEND (DK); (+2) Applicant:  
 EC: C12N5/06B4F; G01N33/74B IPC: A01K67/027  
 Publication info: US2001028878 - 2001-10-11

### 6 Assay to indicate the presence of non-fertilizable ova

Inventor: LINDENBERG SVEND (DK); MIKKELSEN ANNE LIS (DK) Applicant: MEDI CULT AS (DK)  
 EC: IPC: G01N33/68 ; G01N33/74  
 Publication info: CZ20004629 - 2001-06-13

7 EP2416789 - METHOD AND DEVICE FOR TREATMENT OF CONDITIONS ASSOCIATED WITH INFLAMMATION OR UNDESIRABLE ACTIVATION OF THE IMMUNE SYSTEM

8 WO2011029903 - METHOD FOR THE PREPARATION OF MICRO-RNA AND ITS THERAPEUTIC APPLICATION

### 9. LONG ACTING BIOLOGICALLY ACTIVE LUTEINIZING HORMONE (LH) COMPOUND

P NORDKILD, S LINDENBERG, C ANDERSEN, K ANDERSEN  
 WO Patent 2,013,010,840, 2013

### 10. METHOD FOR THE PREPARATION OF MICRO-RNA AND ITS THERAPEUTIC APPLICATION

F Velin, S Lindenberg EP Patent 2,475,372' 2012

### 11. Long acting biologically active luteinizing hormone (lh) compound

P NORDKILD, S Lindenberg, CY Andersen, KV Andersen  
 WO Patent App. PCT/EP2012/063,373 2012

### 12. METHOD AND DEVICE FOR TREATMENT OF CONDITIONS ASSOCIATED WITH INFLAMMATION OR UNDESIRABLE ACTIVATION OF THE IMMUNE SYSTEM

S Lindenberg, F Velin, EP Patent 2,416,789 2012

### 13. METHOD FOR THE PREPARATION OF MICRO-RNA AND ITS THERAPEUTIC APPLICATION

F VELIN, S LINDENBERG, WO Patent 2,011,029,903 2011

### 14. METHOD AND DEVICE FOR TREATMENT OF CONDITIONS ASSOCIATED WITH INFLAMMATION OR UNDESIRABLE ACTIVATION OF THE IMMUNE SYSTEM

S LINDENBERG, F VELIN, WO Patent 2,010,118,979 2010

### 15. Method for the preparation of micro-rna and its therapeutic application

F Velin, S Lindenberg, WO Patent App. PCT/EP2010/063,313,2010

### 16. DOUBLE CANNULA SYSTEM FOR ANAESTHETIC NEEDLE

S LINDENBERG, WO Patent 2,010,054,660,2010

## WEBSITE ACTIVITIES

[www.copenhagenfertilitycenter.com](http://www.copenhagenfertilitycenter.com)

## COPENHAGEN FERTILITY CENTER ACTIVITIES

In total Copenhagen Fertility Center perform more than 4000 treatment cycles every year including IVF/ICSI/IUI and related treatments. This makes Copenhagen Fertility Center one of the largest Scandinavian ART centre.

Copenhagen Fertility Center hosted the ISMAAR congress 2012 and was the host for the ISIVF 2015 in Copenhagen.

Svend Lindenberg  
Professor dr. med

Suzan Lenz, dr. med.

