

LICENSURE: Virginia (#0101-035772)
Maryland (#D24688)
New York (#200723-1)

BOARD CERTIFICATION:

SPECIALTY: American Board of Obstetrics and Gynecology 1982
American Board of Reproductive Endocrinology 1988
Recertification 1997

ACADEMIC POSITIONS

Assistant Professor of Obstetrics and Gynecology 1985 - 1988
Eastern Virginia Medical School

Associate Professor of Obstetrics and Gynecology 1988 - 1995
Eastern Virginia Medical School

Professor of Obstetrics and Gynecology 1995 - 2003
Eastern Virginia Medical School

Director, *In Vitro* Fertilization Program 1988 - 2000
Department of Obstetrics and Gynecology
The Jones Institute for Reproductive Medicine
Eastern Virginia Medical School, Norfolk, VA

Director, Division of Advanced Reproductive Technologies 1994 – 1998
Eastern Virginia Medical School

Director, Division of Reproductive Endocrinology and 1998 – 2000
Infertility
Eastern Virginia Medical School

Medical Director, The Jones Institute for Reproductive Medicine 2001 – 2004
Northern Virginia/DC Center

Medical Director, The Muasher Center for Fertility and IVF 2004 – Present

Clinical Professor, Department of Obstetrics and Gynecology 2005 – Present
The George Washington University

Associate Professor, Department of Gynecology and Obstetrics 2006 – Present
Johns Hopkins University School of Medicine

Professor, Department of Obstetrics and Gynecology 2006- Present
Virginia Commonwealth University

PROFESSIONAL AND HOSPITAL POSITIONS

Laser Committee, Sentara Norfolk General Hospital, Norfolk, Member

ACADEMIC SERVICE

MEMBERSHIP ON EVMS COMMITTEES

Appointments and Promotions Committee, 1997 - 2000
Professional Services Committee, EVMS, 1996 - 2000
Executive Committee, Development, Obstetrics and Gynecology, 1992 - 2000
Full-time Faculty Community Liaison Committee, Obstetrics and Gynecology, 1991
Library Committee, The Jones Institute for Reproductive Medicine, 1992 – 2000
EVMS Space Committee, The Jones Institute for Reproductive Medicine, 1999 - 2000

DEPARTMENTAL GRAND ROUNDS

Weekly attendance, Sentara Norfolk General Hospital or DePaul Hospital

DEPARTMENTAL JOURNAL CLUB

Monthly attendance

DIVISIONAL JOURNAL CLUB

In Vitro Fertilization Journal Club, 1985 to 2000
In charge of monthly meetings, all fellows and residents.

DEPARTMENTAL RESIDENT'S JOURNAL CLUB

Resident's Journal Club, Sept. 1999 – 2000
In charge of monthly meetings, all full-time Faculty,
Community physicians, Fellows and Resident's

SERVICE

Yearly participation in fellowship interviewing process;
Monthly attendance at Department of Ob-Gyn Faculty meetings.

RESIDENT RESEARCH DAY

Sponsor: Muhieddine Seoud, MD, PG IV, June, 1991

Attendance: Yearly

Topic: Twins, triplet and quadruplet pregnancies after IVF

Sponsor: Thor Svendsen, MD, PG IV, May/June, 1995

Attendance: Yearly

Topic: The Incidence of Multiple Gestations after IVF

Sponsor: Karen Shelton, MD, PG IV, May/June, 1995

Attendance: Yearly

Topic: Salpingectomy(ies) Improves the Pregnancy Rate after In vitro Fertilization in Patients with Unilateral or Bilateral Hydrosalpinx

Sponsor: Thor Svendsen, MD, PG IV, May/June, 1996

Attendance: Yearly

Topic: Hormonal Dynamics During the Luteal-Follicular Transition in Women with Diminished Ovarian Reserve

Sponsor: Anna Nackley, MD, PG IV, June, 1998

Attendance: Yearly
Topic: The Significance of Hydrosalpinx in in vitro fertilization

Sponsor: Melinda Rupp, MD, PGIV, June, 1999

Attendance: Yearly
Topic: Do peri-ovulatory serum estradiol and progesterone values predict pregnancy outcomes of IVF/ET?

TEACHING EXPERIENCE

A. DIDACTIC TEACHING

Undergraduate:

Pre-doctoral: "Normal and Abnormal Sexual Differentiation": Presented to first year medical students. Yearly, 1989 - 2000

"Work-up of Infertility": Presented four times yearly to fourth year medical students, 1985- 2000

Residency: Weekly one-hour didactic lecture to residents rotating in Reproductive Endocrinology and Infertility. Subjects cover basic and clinical material.

"Steroidogenesis": Presented twice yearly to OB/GYN Residents and Reproductive Endocrinology Fellows, 1985- 2000

Weekly one-hour didactic lectures presented to residents and students at INOVA Fairfax Hospital 2004 – Present.

Subjects cover basic and clinical topics in reproductive endocrinology.

Other: The Jones Institute/Andrology in the Nineties: International Symposium on Male Infertility. "Factors Affecting Pregnancy Rates In Assisted Reproduction." March 14, 1997.

The Jones Institute/Clinical Research Unit "Friday Brown Bag Lecture Series". "IVF and Donor Egg." May 27, 1994

The Jones Institute/TAP Pharmaceutical Medical Research Associates Preceptorship Course, February 22-24, 1994

The Jones Institute/Serono Preceptorship Course. "Overview of the Norfolk IVF Program"; Work-up of Female Infertility"; Hyperandrogenism". January 27-29, 1993

The Jones Institute/TAP Pharmaceutical Medical Research Associates Preceptorship Course, "Work-up of Female Infertility"; "Embryo Cryopreservation". February 22-24, 1993

The Jones Institute/Parke-Davis Preceptorship Course, "Overview of IVF Program". February 2-4 and March 22-24, 1992

The Jones Institute/Parke-Davis Preceptorship Course, Faculty Member; "An Overview of Norfolk IVF Program". March 10-12, 1991

The Jones Institute TAP Pharmaceutical Medical Research Associates Preceptorship Course, May

20-23, 1991, Program Chairman

Presented: "Work-up of Infertility - Female"
"Overview of Norfolk IVF Program"
"Embryo Cryopreservation/Jones Institute

1st-6th Annual Review Courses in Reproductive Endocrinology and Infertility. Sponsored by the Jones Institute for Reproductive Medicine, 1985-1991, Faculty Member

3rd-4th International Symposium on Ultrasonic Imaging in Perinatal Medicine, 1988, 1989

Fairlane Midwest Symposium in Reproductive Endocrinology and Infertility. Sponsored by The Jones Institute for Reproductive Medicine, 1987, 1989, Faculty Member

3rd-5th Family Medicine Review Courses. Sponsored by Eastern Virginia Medical School, 1987-1989, Faculty Member

Advanced Course in *In Vitro* Fertilization. Sponsored by the Society for Assisted Reproductive Technology, 1988, Faculty Member

Advanced Techniques for *In Vitro* Fertilization and Embryo Transfer. Sponsored by the American Fertility Society, 1987, Faculty Member

Fifth World Congress on *In Vitro* Fertilization and Embryo Transfer, Norfolk, 1987, Scientific Program Committee; Chairman, Round Table Luncheons

The Jones Institute/Organon, Level II Preceptorship Course, organizer, Norfolk, VA, June 7-8, 1999

The Jones Institute/Organon, Level II Preceptorship Course, organizer, Norfolk, VA, Nov. 9-10,

1999

Basic and Clinical Techniques to Optimize Assisted Reproduction. The United States and Middle East Experience. One-day postgraduate course at the 59th Annual meeting of the American Society for Reproductive Medicine, 2003. Developed in cooperation with the Middle East Fertility Society Chairman of the course

Embryo Transfer: The Art and Science of improving single implantation. One-day course at the 61st annual meeting of the American Society for Reproductive Medicine, October 15-19, 2005, Montreal, Canada. Chairman of the course

Ovarian Stimulation for Assisted Reproduction: Strategies to improve outcome. One day post-graduate course at the 63rd annual meeting of the American Society for Reproductive Medicine, October 2007, Chairman of the course

B. NON-DIDACTIC TEACHING

Pre-doctoral: Supervision of medical students at Sentara Norfolk General Hospital, Obstetrics and Gynecology.

Residency: Supervision of 2nd and 3rd year residents during rotation in the Division of Reproductive Medicine,

Obstetrics and Gynecology.

Fellows:

Daily supervision of 1st and 2nd year fellows in the Division of Reproductive Medicine, Obstetrics and Gynecology

Weekly 1-hour lectures to the Residents in rotation

Bi-weekly case presentations correlating ovarian stimulation with corresponding embryological data in IVF.

Four lectures given to Residents of Ob/Gyn:

Steroidogenesis

Work-up of Amenorrhea

Ovulation Induction

In Vitro Fertilization

Lectures to third year students on Infertility (given every 2-3 months)

Lecture to first year students on Clinical Correlations with reproductive disorders (Physiology course)

HONORS AND AWARDS

The Outstanding Contribution to the Advancement of Knowledge for the Members of the American Fertility Society. Assisted Reproductive Technology Prize Paper (Co-Author), Washington, DC, October 15, 1990

Resident Instructor of the Year

Department of Obstetrics and Gynecology

Eastern Virginia Medical School, 1984-1985

Lange Medical Publication Award

Outstanding achievements as a medical student

American University of Beirut, 1976

Won Teaching Award of the Year by the Resident's in Ob-Gyn

George Washington University, 2005, 2006, 2007

CREOG Award, National Faculty Award for Excellence in Resident Education, 1998-1999

Awarded the King Hussein Medal for special achievements, of the first order, for contributions in the field of medicine. Medal presented by King Abdullah II at Basman Palace, Amman, Jordan. December 2, 2004

COMMUNITY SERVICES

DePaul Hospital, Obstetrics and Gynecology service, Night Call, 1991 - 2000

Sentara Norfolk General Hospital, Gynecology Clinic, Resident supervision, 1985 - 2000

MEMBERSHIP ON LOCAL, NATIONAL AND INTERNATIONAL COMMITTEES AND BOARDS

National Arab American Medical Association

Scientific and Research Committee - 1997 to Present

Liaison Subcommittee for Jordan - 1996 to Present

Serono Laboratories, Inc. Speakers Bureau

Chairman - 1996 to 1998

Lutheran General Hospital, Center for Advanced Reproduction, Chicago, Illinois

Consultant - 1988 to 1995

King Hussein Medical Center IVF Program, Amman Jordan,

Consultant - 1987 to present

King Hussein Cancer Center, Chairman of the Board of the USA Foundation 2006-present

Society for Assisted Reproduction Technology, Member of the Membership Committee
2005-2007

Society for Assisted Reproduction Technology, Chairman of the Membership Committee
2006-2007

MEMBERSHIP IN PROFESSIONAL SOCIETIES

Hampton Roads Fertility Society Founder, 1992

President-elect, 1993

President, 1994-1996

American College of Obstetricians and Gynecologists - Fellow

American Fertility Society - Active Member

In Vitro Fertilization Special Interest Group - Member

Society for Assisted Reproduction - Member

Society of Reproductive Endocrinologists – Member

The Middle East Fertility Society: President 2003 – 2005

Society for Assisted Reproductive Technology (SART), member of the Membership Committee.
2004 – 2006

Chairman of the 11th Annual Scientific Meeting of the Middle East Fertility Society, December 1-4, 2004. Dead
Sea, Jordan

The 58th Annual Meeting of the American Society for Reproductive Medicine 2002. Member of the abstract
committee for the Society of Assisted Reproductive Technology (SART)

Fertility Sterility, Adhoc Reviewer

Human Reproduction, Adhoc Reviewer

Voted one of the Top Doctors in Washington DC for Infertility, Washingtonian Magazine, November 2002 and July 2005

EDITORIAL BOARD MEMBER/CONSULTANT FOR NATIONAL REFEREED PUBLICATIONS

Journal of the Royal Medical Services (Jordan) - Board of Advisors, 1994 - present

Journal of Assisted Reproduction and Genetics - Editorial Board, 1988 - 2000

Fertility and Sterility - Ad Hoc Reviewer

Human Reproduction - Ad Hoc Reviewer

American Journal of Obstetrics and Gynecology - Ad Hoc Reviewer

Middle East Fertility Society Journal, International Advisory Committee - 1997 to present

Fertility and Sterility, Member of the Editorial Advisory Board, 2006-present

IRB PROTOCOLS:

Morshedi M, Diaz J, Oehninger S, Gibbons WE, Oldfield E, Glass W, Muasher SJ: Processing of semen samples from HIV positive men to reduce the viral load and use the samples for the insemination of eggs from HIV negative wives with the aim of achieving pregnancies. Approved 10/17/02

PRESENT FUNDED RESEARCH AND TRAINING GRANTS AND CONTRACTS

Principal Investigator: W.E. Gibbons, MD

Co-Investigators: S. Lanzendorf, PhD, S. J. Muasher, MD, L. L. Veeck, M.L.T., G. Hodgen, PhD
"Human Protocol for Preimplantation Genetic Diagnosis for Tay-Sachs Disease".

Period: One year Total of Award: N/A

Sponsor: The Jones Institute for Reproductive Medicine IRB approved

Principal Investigator: M. W. Austin, MD

Co-Investigators: AZ Abuhamad, MD, J. Ramey, MD, PhD, R. Poe-Zeigler, MD, S.J. Muasher, MD
Transvaginal Color Doppler Sonographic Evaluation of Ovarian and Uterine Blood Flow in *In Vitro* Fertilization Cycle

Period: One year Total of Award: N/A

Sponsor: The Jones Institute for Reproductive Medicine IRB approved

Principal Investigator: A. A. Acosta, MD

Co-Investigators: S. J. Muasher, MD, S. Oehninger, MD, L.L. Veeck, MLT

"Human Oocyte Manipulation for Assisted Fertilization
Period: Ongoing Total of Award: N/A
Sponsor: The Jones Institute for Reproductive Medicine IRB approved

Principal Investigator: C.C. Coddington, MD
Co-Investigators: S.J. Muasher, MD, JP Toner, MD, PhD, J. Ramey, MD, PhD, M. Austin, MD
R. Poe-Zeigler, MD, G.D. Hodgen, PhD
Unexplained Infertility Treated with Metrodin XP, Luminary Group 1993
Period: One year Total of Award: \$46,160
Sponsor: Serono Laboratories, Inc. IRB approved

Principal Investigator: W. E. Gibbons, MD
Co-Investigators: A. A. Acosta, MD, S. J. Muasher, MD
"The Use of an Intravaginal Progesterone Preparation (COL90) in a Donor Oocyte Program Test Cycle (Phase I)
Period: One year. Total of Award: \$17,438
Sponsor: Columbia Research Laboratories IRB approved

Principal Investigator: W. E. Gibbons, MD
Co-Investigators: A. A. Acosta, MD, S. J. Muasher, MD
"The Use of an Intravaginal Progesterone Preparation (COL90) in a Donor Oocyte Program, Phase II
Period: One year. Total of Award: \$155,375
Sponsor: Columbia Research Laboratories IRB approved

Principal Investigator: H. W. Jones, Jr., MD
Co-Investigators: S. J. Muasher, MD, L. L. Veeck, MLT, DSc (hon),
"Fertilization and Cleavage of Human Oocytes After Micromanipulation"
Period: Two years. Total of Award: N/A
Sponsor: The Jones Institute IRB approved

Principal Investigator: S. Lanzendorf, Ph.D.
Co-Investigators: S. J. Muasher, MD, W. E. Gibbons, MD, Lucinda Veeck, MLT, DSc (hon)
"Ultrastructural and Molecular Evaluation of Preembryos Resulting from Immature Human Oocytes"
Period: Two years. Total of Award: \$40,550
Sponsor: The Jones Institute IRB approved

Principal Investigator: S. J. Muasher, MD
Co-Investigators: R. Brzyski, MD, A. A. Acosta, MD, S. Oehninger, MD, L. L. Veeck, MLT, DSc
"Assisted Hatching of the Human Preembryo"
Period: One year. Total of Award: N/A
Sponsor: The Jones Institute IRB approved

Principal Investigator: S. J. Muasher, MD
Co-Investigators: S. Bruno, RN, J. F. Mayer, PhD, S. E. Lanzendorf, PhD, S. Oehninger, MD
"A Randomized, Comparative, Multi-Center Trial to Assess the Safety and Efficacy of Gonal-F versus Gonal-F and Lhadi for the Treatment of Subfertile Couples Undergoing ICSI"
Period: One Year Total of Award: \$100,000
Sponsor: Serono Laboratories IRB approved

Principal Investigator: S. J. Muasher, MD
Co-Investigators: J. Luka, PhD, M. Morshedi, PhD, S. Oehninger, MD, E. Oldfield, MD, R. Moriarty, MD, R.

Moore, MD, S. Lanzendorf, PhD, J. Mayer, PhD, M. Mahony, PhD
"Detection of HIV-1 in Treated Spermatozoa of HIV Infected Males With a CD4+ Count Greater Than 200 and Its Correlation to the Viral Load in Peripheral Blood by PCR"

Period: One Year Total of Award: \$17,000

Sponsor: Serono Laboratories

IRB approved

Principal Investigator: S. J. Muasher, MD

Co-Investigators: S. Bruno, RN, J. Mayer, PhD, S. Brown, MD, J. P. Toner, MD, S. Oehninger, MD

"A Phase III, Multi-center, Open-label, Randomized study to Assess the Efficacy and Safety of ORG 37462 In Women Undergoing Controlled Ovarian Hyperstimulation Using a Long Protocol of Leuprolide Acetate as a Reference Therapy"

Period: One Year Total of Award: \$350,000

Sponsor: Organon, Inc.

IRB approved

Principal Investigator: S. J. Muasher, MD

Co-Investigators: Sergio Oehninger, MD; Terry Hoffman, RN, CCRC, James P. Toner, MD, PhD

"A Phase 3, Multicenter, Double-blind, Double-dummy, Randomized Parallel Group Study to Compare the Safety and Efficacy of Recombinant Human Luteinizing Hormone (r-hLH) with Profasi (Urinary Human Chorionic Gonadotropin) in Inducing Final Follicular Maturation and Early Luteinization in Infertile Women Undergoing Ovarian Stimulation with Gonal-F (Recombinant Human Follicle Stimulating Hormone) Prior to In Vitro Fertilization and Embryo Transfer (IVF-ET)." (Protocol 21750)

Period: Total of Award: \$160,000

Sponsor: Serono Laboratories, Inc.

IRB approved

Co-Investigators: S. J. Muasher, MD, A. H. DeCherney, MD, R.L. Barbieri, MD

"Investigation into efficacy and safety of the LHRH-antagonist Cetrorelix in women undergoing fertilization treatment. An open, non-controlled, multicenter phase 111b study"

Period: One Year Total of Award:

Sponsor: Asta Medica, Inc.

PREVIOUS FUNDED RESEARCH AND TRAINING GRANTS AND CONTRACTS

Principal Investigator: S. J. Muasher, MD

Co-Investigators: S. O. Oehninger, MD, A. A. Acosta, MD, R. G. Brzyski, MD, PhD

"Comparative Study of Different Dosage Regimens of Intranasal Nafarelin Acetate for Gonadotropin Suppression Adjunctive to Controlled Stimulation Prior to *In Vitro* Fertilization"

Closed: Period: One year. Total of Award: \$31,750

Sponsor: Syntex Laboratories, Inc.

IRB approved

Principal Investigator: S. J. Muasher, MD

"Health Surveillance of Women Treated for Infertility by *In Vitro* Fertilization (Reproductive Health Study)".

Closed. Period: 5 years (1988-1993) Total of Award:

Sponsor: National Institute of Child Health and Human Development, National Institutes of Health.

IRB approved

Principal Investigator: S. J. Muasher, MD

Co-Investigators: A. A. Acosta, MD, S. Oehninger, MD
"Investigation of *In Vitro* Maturation, Fertilization, and Development of Blastocyst Stages Involving Human Prophase I (Immature) Oocytes"

Closed. Period: One year. Total of Award: N/A
Sponsor: The Jones Institute IRB approved

Principal Investigator: S. J. Muasher, MD
Co-Investigators: T. L. Toth, MD
"Cryopreservation and *In Vitro* Fertilization of Immature Human Oocytes", Co-Investigator,
Closed. Period: One year. Total of Award: N/A
Sponsor: The Jones Institute IRB approved

Principal Investigator: S. J. Muasher, MD
Co-Investigators:
"Doppler Ultrasound Analysis of the Uterine and Ovarian Arteries in IVF Patients"
Closed. Period: One year. Total of Award: N/A
Sponsor: The Jones Institute IRB approved

Principal Investigator: S. J. Muasher, MD
Co-Investigators:
"Cryopreservation of Human Prezygotes"
Closed. Period: One year. Total of Award: N/A
Sponsor: The Jones Institute IRB approved

Principal Investigator: R. G. Brzyski, MD, Ph.D.
Co-Investigator: S. J. Muasher, MD
Ovulation Induction in Polycystic Ovary Syndrome (PCOS) Using Leuprolide Acetate and Gonadotropin-Releasing Hormone
Period: One year. Total of Award:
Sponsor: TAP Pharmaceuticals IRB approved

Principal Investigator: D. Moffitt, MD
Co-Investigators: S. J. Muasher, MD, S. Oehninger, MD, R. G. Brzyski, MD, Ph.D., J. Queenan, MD, D. R. Grow, MD, J. Sims, MD
"The effect of glucocorticoids on implantation and pregnancy rates"
Period: One year. Total of Award: N/A
Sponsor: The Jones Institute IRB approved

ACADEMIC PRESENTATIONS/POST-GRADUATE COURSES

The 15th International Meeting of the Arab American Medical Association, Cairo, Egypt, June 20-25, 1998,
Scientific Co-Chairman

American Society for Reproductive Medicine 53rd Annual Meeting, Cincinnati, Ohio, October 18-22, 1997:
Mercan R, Lanzendorf S, Nassar A, Mayer J, Muasher SJ, Oehninger S. The outcome of clinical pregnancies following ICSI is not affected by semen quality.

Andrology in the Nineties: International Symposium on Male Infertility, Jones Institute/EVMS, March 13-14, 1997, Faculty Member

The 13th International Meeting of the Arab American Medical Association, Marrakech, Morocco, June 22-29, 1996, Scientific Co-Chairman

The Jones Institute TAP Pharmaceutical Medical Research Associates Preceptorship Course, February 22--24, 1994, Program Chairman

The 11th International Meeting of the Arab American Medical Association, Amman, Jordan, June 20-25, 1993, Scientific Co-Chairman

Parke-Davis Preceptorship Course, February 2-7, 1992, Faculty Member

The Jones Institute TAP Pharmaceutical Medical Research Associates Preceptorship Course, May 20-23, 1991, Program Chairman

Health Surveillance of Women Treated for Infertility by *In Vitro* Fertilization. Rockville, MD, November 18, 1991, Member, NIH Ad Hoc Review Committee

The Jones Institute/Parke-Davis Preceptorship Course, March 10-12, 1991, Faculty Member

First International Symposium on Preimplantation Genetics, Chicago, IL, September 14-19, 1990

Fifth World Congress on *In Vitro* Fertilization and Embryo Transfer, Norfolk, 1987, Scientific Program Committee, Chairman, Round Table Luncheons

Old Dominion University, Norfolk, VA 1984

Medical Statistics (3 credits)

Topics in Reproductive Biology and Neuroendocrinology (3 credits)

1st-6th Annual Review Courses in Reproductive Endocrinology and Infertility. Sponsored by the Jones Institute for Reproductive Medicine, 1985 - 1991, Faculty Member

3rd-4th International Symposium on Ultrasonic Imaging in Perinatal Medicine, 1988, 1989

Fairlane Midwest Symposium in Reproductive Endocrinology and Infertility. Sponsored by the Jones Institute for Reproductive Medicine, 1987, 1989, Faculty Member

3rd-5th Family Medicine Review Courses. Sponsored by Eastern Virginia Medical School, 1987-1989, Faculty Member

Advanced Course in *In Vitro* Fertilization. Sponsored by the Society for Assisted Reproductive Technology, 1988, Faculty Member

Advanced Techniques for *In Vitro* Fertilization and Embryo Transfer. Sponsored by the American Fertility Society, 1987

PRESENTATIONS, INVITED LECTURES, RESEARCH SEMINARS

Virginia Beach, VA - The American Association of Medical Assistants, Inc.: "*In Vitro* Fertilization," November 24, 1985.

New York, New York - Columbia Presbyterian Medical Center, Grand Rounds: "*In Vitro* Fertilization," March 1986.

Neptune, New Jersey - Jersey Shore Medical Center, Department of Obstetrics and Gynecology, Grand Rounds: "*In Vitro* Fertilization," February 4, 1988.

Williamsburg, Virginia - Third International Symposium on Ultrasonic Imaging, March 13-15, 1988.

1989

Amman, Jordan - First Jordanian Obstetrics and Gynecology Conference: "Up-date on *In Vitro* Fertilization," March 29-31, 1989.

Williamsburg, Virginia - Fourth International Symposium on Ultrasound Imaging in Perinatal Medicine, May 12-14, 1989.

Atlanta, Georgia - The American College of Obstetricians and Gynecologists, 37th Annual Meeting, May 19-25, 1989.

Virginia Beach, Virginia - Fifth Annual Eastern Virginia Medical School Family Medicine Review Course, June 5-9, 1989.

Brooklyn, New York - Brookdale Health and Hospital Center, Grand Rounds: "Assisted Reproductive Technologies," June 7, 1989.

Lake Buena Vista, Florida - Reproductive Endocrinology and Assisted Reproduction, October 26-29, 1989.

San Francisco, California - The American Fertility Society, 45th Annual Meeting, November 11-16, 1989.

Baghdad, Iraq - The 8th International Meeting of the Arab American Medical Association: "Up-date on *In Vitro* Fertilization," December 16-22, 1989.

1990

Virginia Beach, Virginia - Virginia Beach Resort and Conference Center, "The Use of GnRH Agonist in Ovulation Induction, *In Vitro* Fertilization and GIFT," January 30, 1990.

Jacksonville, Florida - Memorial Laboratories, Current Issues in Obstetrics and Gynecology, "IVF, GIFT and ZIFT: Recent Developments," January 29, 1990.

Williamsburg, Virginia - The 1990 Virginia Society for Medical Technology Spring Meeting: "Update on Infertility: Diagnosis and Treatment," March 15, 1990.

Jacksonville, Florida - Obstetrics and Perinatology Conference: "Current Issues in Obstetrics," April 21, 1990.

San Francisco, California - American College of Obstetricians and Gynecologists, 38th Annual Clinical Meeting, May 5-10, 1990.

Chicago, Illinois - Preimplantation Genetics Symposium, September 16-19, 1990.

Washington, DC - The American Fertility Society, 46th Annual Meeting, October 13-18, 1990.

Deerfield, Illinois - Annual Meeting of the Medical Research Associates, "Update on IVF," December 4-5, 1990.

1991

Mexico City, Mexico - Serono Symposium, Faculty Member, April 1991.

Williamsburg, Virginia - The Jones Institute Annual Reproductive Endocrine Review Course: "Ovarian Hyperstimulation Protocols for Assisted Reproductive Technologies," April 18-21, 1991.

New Orleans, Louisiana - American College of Obstetricians and Gynecologists, 39th Annual Meeting, May 4-9, 1991.

Ahospie, North Carolina - Medical Staff of Roanoke Chowan Hospital, "Indications for Treatment of IVF and How to Make a Referral," May 28, 1991.

Brooklyn, New York - Brookdale Hospital Medical Center, Grand Rounds: "The Impact of Different Variables on Success Rates of IVF," June 5, 1991.

Fort Lauderdale, Florida - Resolve Meeting: "Assisted Reproductive Technologies," June 20, 1991.

Paris, France - European Society of Human Reproduction, Seventh Annual Meeting, June 28-30, 1991.

Baltimore, Maryland - University of Maryland Medical Center, Grand Rounds: "Ovarian Hyperstimulation for Assisted Reproductive Technologies," September 30, 1991.

Virginia Beach, Virginia - Clarion Resort Center: Minimally Invasive Therapy: A workshop for the Gynecologist, Faculty Member, October 28-29, 1991.

Stockholm, Sweden - Leuprorelin Symposium: "The use of GnRH agonists in controlled ovarian hyperstimulation for *in vitro* fertilization (IVF)," October 12, 1991.

Boston, Massachusetts - Boston Fertility Society: Update on Assisted Reproductive Technologies, November 15, 1991.

Washington, DC - Department of Health and Human Services, November 11-18, 1991.

Amman, Jordan - King Hussein Medical Center: "Update on *In Vitro* Fertilization," and "Male Infertility," December, 1991

Amman, Jordan - Al-Bashir Hospital: "Estrogen Replacement Therapy," December, 1991

Amman, Jordan - Jordanian Obstetrics and Gynecology Society: "Hirsutism," December, 1991.

1992

Atlanta, Georgia - Resolve Meeting: "IVF and GIFT" and "Assisted Reproductive Technologies-What is New on the Horizon?" January 25, 1992.

Baltimore, Maryland - Union Memorial Hospital, Grand Rounds: "Advances in IVF: Cryopreservation of Pre-

embryos," February 18, 1992.

Beirut, Lebanon - Middle East Medical Assembly, American University of Beirut: "Embryo Cryopreservation," May 7-9, 1992.

Chicago, Illinois - TAP Pharmaceuticals IVF Advisory Meeting, August 6, 1992.

Boston, Massachusetts - International Symposium on FSH: group leader on the role of FSH in ovulation induction for IVF, September 17, 1992.

Youngstown, Ohio - Youngstown Obstetrical and Gynecological Society: "Assisted Reproductive Technologies," September 23, 1992.

Youngstown, Ohio - St. Elizabeth's Hospital, Grand Rounds: "Steroidogenesis," September 24, 1992.

Norfolk, Virginia - Sentara Norfolk General Hospital, Grand Rounds: "Embryo Cryopreservation," October 1, 1992.

Central New Jersey - Resolve: "Assisted Reproductive Technologies: Expectations and Outcomes," October 3-4, 1992

Amman, Jordan - Second Jordanian Obstetrics and Gynecology conference: "Success and failure in *in vitro* fertilization," "Update on the treatment of male factor infertility in *in vitro* fertilization," "Estrogen replacement therapy," October 14-16, 1992.

Roanoke, Virginia - Lewis-Gale Hospital: "Assisted reproductive technologies," October 24, 1992.

1993

Charleston, West Virginia - Women's and Children's Hospital, Grand Rounds: "*In Vitro* Fertilization," March 10, 1993.

Lomas Sotelo, Mexico - First Annual Meeting of the Mexican Association of Military Obstetricians and Gynecologists, Hospital Central Militar, May 6-8, 1993.

1. "Controlled ovarian hyperstimulation protocol"
2. "P₄ levels in the follicular phase of the stimulation cycle"
3. "Present and future of Assisted Reproductive Technologies in Latin American countries" (Roundtable)
4. "Cryopreservation protocols and results"
5. "Menopause"

Society for Assisted Reproductive Technology (SART) Registry meeting: Views regarding data collection, May 20, 1993

New Brunswick, New Jersey - Robert Wood Johnson Medical Center, Grand Rounds: "Impact of different variables on success rates in ART," May 28, 1993.

Amman, Jordan - The 11th International Meeting of the Arab American Medical Association, Scientific Chairman. Lecture: "Update on IVF," June 20-25, 1993.

Kyoto, Japan - Japan Society of Fertilization and Implantation and the Japan Fertility Society: Eighth World Congress on IVF and Alternate Assisted Reproduction. September 12-15, 1993.

Chicago, Illinois - Lutheran General Hospital: Grand Rounds, teaching and collaboration, September 28-29, 1993.

Montreal, Canada - American Fertility Society 39th Annual Meeting, October 10-14, 1993.

Charlottesville, Virginia - University of Virginia Health Science Center, Grand Rounds: "Assisted Reproductive Techniques," "IVF," December 1, 1993.

1994

Chicago, Illinois - Lutheran General Hospital: Grand Rounds, teaching and collaboration, January 11, 1994.

Chicago, Illinois - Lutheran General Hospital: "Latest statistics on ICSI and other micromanipulation techniques and statistics on Norfolk patients over 40," January 12, 1994.

Cleveland, Ohio - Cleveland Society of Obstetricians and Gynecologists: "Embryo Freezing;" "Assisted Reproduction: State-of-the-Art. Where are we going?" January 19, 1994.

Norfolk, Virginia - The Jones Institute for Reproductive Medicine: TAP Preceptorship, February 22-24, 1994.

Boston, Massachusetts - Massachusetts General Hospital, Grand Rounds; Lectures: "Advances in Assisted Reproductive Technologies" and "Case Study Presentation and Review," March 10-11, 1994.

Baltimore, Maryland - Union Memorial Hospital: "Management of infertility in the diabetic patient," April 7, 1994.

Chicago, Illinois - Lutheran General Hospital: Grand Rounds, teaching and collaboration, April 12, 1994.

Saginaw, Michigan - Michigan State University, "Update on *In Vitro* Fertilization," April 25, 1994.

Norfolk, Virginia - Clinical Research Unit, Department of Obstetrics and Gynecology, Eastern Virginia Medical School, Lecture: "IVF and Donor Egg," May 27, 1994.

Amman, Jordan - Al-Amal Hospital, Lecture: "Update on *In Vitro* Fertilization," June 16, 1994.

Youngstown, Ohio - St. Elizabeth Hospital, Lecture: "Update on *In Vitro* Fertilization," August 25, 1994.

Recife, Brazil - First Congress on Infertility and Assisted Reproduction, Lectures: "Work-up on Female Infertility and Management of Hyperandrogenism"; "Stimulation Protocols for Assisted Reproduction"; "Ovulation Induction," September 27-29, 1994.

Virginia Beach, Virginia - Sentara Panel member: "Infertility: Advanced Treatment Options," October 4, 1994.

Miami, Florida - University of Miami Hospital, Grand Rounds: "Update on *In Vitro* Fertilization," October 12, 1994

San Antonio, Texas - American Fertility Society Annual Meeting. Invited speaker and moderator of seminar. November 5-8, 1994.

1995

Seattle, Washington - 51st Annual Meeting of the American Society for Reproductive Medicine: Session Moderator, October 7-12, 1995.

Bethesda, Maryland - Montgomery Fertility Center - "Update of IVF Results at the Jones Institute: Review of Stimulation Protocols for IVF," October 18, 1995.

Philadelphia, Pennsylvania - Toll Center: "Update of IVF Results at the Jones Institute," November 1, 1995.

Chicago, Illinois - Center for Human Reproduction Dinner Forum: "Update of IVF Results at the Jones institute: Review of Stimulation Protocols for IVF," November 8, 1995.

San Antonio, Texas - The Fertility Center of San Antonio/Serono Laboratories Luncheon: "Update of IVF Results at the Jones Institute: Review of Stimulation Protocols for IVF," November 14, 1995.

San Antonio, Texas - University of San Antonio Department of Ob-Gyn/Serono Laboratories Dinner Forum: "Update of IVF Results at the Jones Institute: Review of Stimulation Protocols for IVF," November 14, 1995

Detroit, Michigan - Michigan Reproductive Endocrinologists Society: "Update of IVF Results at the Jones Institute," December 12, 1995.

1996

Los Angeles, California - Serono Laboratories, area infertility specialists dinner forum: "Ways ART outcomes may be optimized." January 17-19, 1996.

Baltimore, Maryland - Serono Regional Meeting, Serono Field Force (Clinical Science Liaisons, Regional Medical Specialists): "Update of IVF Results at The Jones Institute: Review of Stimulation Protocols for IVF," January 23, 1996.

Philadelphia, Pennsylvania - South Jersey Reproductive Society: "Update of IVF Results at The Jones Institute: Review of Stimulation Protocols for IVF." February 6, 1996.

San Francisco, California - Bay Area Reproductive Endocrinology Society and Northern California Association of Reproductive Biologists: "A review and discussion of ART clinical procedures and modifications: What has worked and what has not", March 7, 1996.

Long Island, New York - Long Island Reproductive Endocrinologists and Embryologists: "Factors influencing IVF outcome: Review of stimulation protocols", March 12, 1996.

New York, New York - Reproductive Endocrinologists, Obstetricians-Gynecologists, Fellows, Embryologists, and Registered Nurses: "Factors influencing IVF outcome: Review of stimulation protocols", March 13, 1996.

Philadelphia, Pennsylvania - Philadelphia Fertility Institute: "Update on IVF," April 2, 1996.

Cincinnati, Ohio - Grand Rounds, Christ Hospital: "Factors Affecting Pregnancy Rates In IVF," May 1, 1996.

Houston, Texas - Houston Area Reproductive Technologists Society (HARTS): "An Update on Assisted Reproductive Technologies," May 7, 1996.

New Orleans, Louisiana - Are reproductive endocrinologists/laboratory directors: An Update on IVF Results at the Jones Institute," May 16, 1996.

Hartford, Connecticut - Resolve: "The High Tech Road to Pregnancy - Assisted Reproductive Technologies," June 1, 1996.

Baltimore, Maryland - Reproductive Endocrinologists, Dinner Forum: "Factors Affecting IVF Outcomes." July 8, 1996.

Minneapolis/St. Paul, Minnesota - Tri-state area reproductive endocrinologists/embryologists/lab staff: "An Update on Assisted Reproductive Technologies," July 30, 1996.

Seattle, Washington - Assisted Reproductive Technologies Northwest/Serono Laboratories: "A Review and Discussion of ART Clinical Procedures and Modifications: What has Worked, What Has Not," September 17, 1996.

San Diego, California - San Diego Reproductive Endocrine Society/Serono Laboratories: "A Review and Discussion of ART Clinical Procedures: What Has Worked, What Has Not," September 18, 1996.

Phoenix, Arizona - Serono Laboratories Consultancy Meeting, October 3-5, 1996.

Boston, Massachusetts - Brigham and Women's Hospital: "Reevaluating Protocol Strategies in Assisted Reproductive Technologies," October 8, 1996.

Hartford, Connecticut - Serono Laboratories Dinner Forum: "Reevaluating Protocol Strategies in Assisted Reproductive Technologies," October 9, 1996.

Fairfax, Virginia - Fairfax Hospital/TAP Pharmaceuticals, Grand Rounds: "Updates in Infertility," October 14, 1996.

Boston, Massachusetts - American Society of Reproductive Medicine 52nd Annual Meeting: Session Moderator; Presenter, ICSI Data - Serono ICSI Meeting, November 2-6, 1996.

Philadelphia, Pennsylvania - University of Pennsylvania Department of Ob-Gyn Dinner Forum: "Update on Infertility Therapies and IVF," November 13, 1996.

Philadelphia, Pennsylvania - University of Pennsylvania Medical Center, Grand Grounds: "Update on Infertility Therapies and IVF," November 14, 1996.

Phoenix, Arizona - Samaritan Institute of Reproductive Health: "Reevaluating Protocol Strategies in Assisted Reproductive Technologies," November 20, 1996.

Boston, Massachusetts - Massachusetts General Hospital: "Reevaluating Protocol Strategies in Assisted Reproductive Technologies," December 16, 1996.

1997

Beirut, Lebanon - American University of Beirut, Lebanese Society of Ob-Gyn: "Update on Assisted Reproductive Technologies and the Importance of Different Variables that Affect Pregnancy Rates," and "Stimulation Protocols for Assisted Reproductive Technologies," January 3-4, 1997.

Dayton, Ohio - Miami Valley Hospital: Consultancy with Jacob F. Mayer, PhD, January 29-30, 1997

Baltimore, Maryland - Greater Baltimore Medical Center/Serono Laboratories, Grand Rounds: "IVF - New Developments," March 21, 1997.

Pittsburgh, Pennsylvania - Magee Women's Hospital/Serono Laboratories, Grand Rounds: "Reevaluating Protocol Strategies in Assisted Reproductive Technologies," March 25, 1997.

Boardman, Ohio - Parkside Reproductive Center/Serono Laboratories, Luncheon Forum: "Reevaluating Protocol Strategies in Assisted Reproductive Technologies," March 25, 1997.

Pittsburgh, Pennsylvania - Allegheny General Hospital/Serono Laboratories, Grand Rounds, "Reevaluating Protocol Strategies in Assisted Reproductive Technologies," March 26, 1997.

Vancouver, B.C., Canada – 10th World Congress on IVF and ART, May 24-28, 1997.

Cincinnati, OH – Ob-Gyn Society, Academy of Medicine of Cincinnati/Serono Laboratories, Keynote speaker: "How IVF Changed the Clinical Practice of IVF," May 28, 1997.

Cincinnati, OH – Christ Hospital/Serono Laboratories, Grand Rounds: "Update on ART," May 29, 1997.

Columbus, OH – Ohio Reproductive Medicine/Serono Laboratories, Keynote speaker: "Reevaluating Protocol Strategies in ART," June 4, 1997.

Weehawkin, New Jersey – Center for Reproductive Medicine/Serono Laboratories, Dinner Forum, "Reevaluating Protocol Strategies in Assisted Reproductive Technologies," August 26, 1997.

Coral Gables, Florida – Serono Laboratories Dinner Forum: "Reevaluating Protocol Strategies in Assisted Reproductive Technologies," November 19, 1997.

1998

Cleveland, Ohio – University Hospitals McDonald Women's Hospital/Organon, Inc., Grand Rounds "Factors Affecting Pregnancy Rates for IVF," February 4, 1998.

Santa Anna, California – Serono Laboratories Dinner Forum: "Reevaluating Protocol Strategies in Assisted Reproductive Technologies," February 24, 1998.

Flint, Michigan – Hurley Medical Center/Serono Laboratories, Breakfast Forum: "Success Rates of IVF," March 30, 1998.

Troy, Michigan – Serono Laboratories Luncheon Forum: "Stimulation Protocols for IVF," March 30, 1998.

Milwaukee, Wisconsin – Serono Laboratories Dinner Forum: "Stimulation Protocols for OI and IVF," April 1, 1998.

Northridge, California – Serono Laboratories Luncheon with Dr. Konialian: "Stimulation Protocols For IVF," June 9, 1998.

Beverly Hills, California – Serono Laboratories Dinner Forum: "Stimulation Protocols for IVF", June 9, 1998.

Salt Lake City, Utah – University of Utah/Serono Laboratories Luncheon Forum: "Stimulation Protocols for IVF," June 10, 1998

Middle East Fertility Society, Invited speaker: Stimulation Protocols for IVF, Amman, Jordan, November 1998

University of Chicago Professor Lecture Series, Blastocyst Transfer, Oocyte Freezing, The Role of Hydrosalpinx in IVF, Stimulation Protocols for IVF, Chicago, IL, November 11-12, 1998

1999

National Symposium "Blastocyst Transfer", for Serono Laboratories, Chicago, IL, March 23, 1999

2001

Status of IVF in the United States. OB-GYN Grand Round, Prince William Hospital, Manassas, VA, July 2001.

Newer Modalities for the treatment of Polycystic Ovarian Disease. International Conference on Diabetes, Union Memorial Hospital, Baltimore, MD, July 2001.

The status of IVF in the United States. OB-GYN Grand Rounds, INOVA Fairfax Hospital, Fairfax, VA, September 2001.

Stimulation protocols for IVF: GnRH Agonists vs. Antagonists. Japanese OB-GYN Society, Tokyo, Japan.
November 2001

2002

Fertilization potential of human sperm is correlated with endogenous platelet-activating factor content. 64th annual meeting of the South Atlantic Association of Obstetricians and Gynecologists, January 2002.

The future of assisted reproduction. Primary speaker at the annual meeting of the Cleveland OB-GYN Society, March 2002.

Individualizing the number of embryos to be transferred. Presented by invitation at the Middle East Fertility Society Session at the 58th Annual meeting of the American Society for Reproductive Medicine, 2002

2005

Dr. Susan Lynn Shackman Memorial Lecturer, The Johns Hopkins University School of Medicine, Department of Obstetrics and Gynecology, Division of Reproductive Endocrinology

ABSTRACTS

1984

Muasher S, Jones HW Jr., Acosta A, Garcia JE, Jones GS, McDowell J, Sandow B, Veeck L, Wilkes C, Wright G, Jr. The value of peripheral estradiol and progesterone in the luteal phase to the success and failure of *in vitro* fertilization and embryo transfer in hMG/hCG-stimulated normal menstrual cycles. 40th Annual Meeting of The American Fertility Society, New Orleans, LA, April 2-7, 1984

Rosenwaks Z, Garcia JE, Muasher S, Jones GS. Role of pituitary gonadotropins in follicular stimulation and oocyte maturation in the woman. Endocrinology 7th International Congress. Quebec City, Canada, July 1-7, 1984. (Proceedings: International Society of Endocrinology; Canadian Society of Endocrinology and Metabolism; Labal University. Elsevier Sci. Pub. Co., Inc., New York)

1985

Muasher SJ, Acosta AA, Ackerman S, Acosta R. Isolation of motile sperm fraction from semen significance and correlations. Third Annual Congress of Andrology, Boston, MA, April 27-May 2, 1985

Andrews MC, Muasher SJ, Levy DL, Jones HW Jr., Garcia JE, Rosenwaks Z, Jones GS, Acosta AA. An analysis of the obstetric outcome of 125 consecutive pregnancies conceived *in vitro* resulting in 100 deliveries. Fourth Annual Meeting, The American Gynecological and Obstetrical Society, The Homestead, Hot Springs, VA, September 4-7, 1985

1986

Muasher SJ, Liu H-C, Rosenwaks Z. Does transient hyperprolactinemia occur in the luteal phase of gonadotropin-stimulated human cycles? The South Atlantic Association of Obstetricians and Gynecologists, January 12-15, 1986

Kreiner D, Itskovitz J, Muasher S, Rosenwaks Z. Factors associated with successful outcome in 98 patients undergoing ovarian stimulation for IVF-ET. The American Fertility Society/Canadian Fertility and Andrology Society Annual Meeting, Toronto, Canada, September 27 - October 2, 1986

Romeau A, Muasher SJ, Acosta AA, Veeck LL, Diaz J, Rosenwaks Z. Results of *in vitro* fertilization (IVF) attempts in women forty years of age and older: The Norfolk experience. The American Fertility Society/Canadian Fertility and Andrology Society Meeting, Toronto, Canada, September 27- October 2, 1986

1987

Rosenwaks Z, Navot D, Veeck L, Liu H-C, Steingold K, Kreiner D, Droesch K, Stumpf P, Muasher SJ. Oocyte donation: The Norfolk program. Vth World Congress on *In Vitro* Fertilization and Embryo Transfer, Norfolk, VA, April 5-10, 1987. (In: Annals New York Academy of Sciences, Jones HW Jr., Schrader C. (eds.) New York, NY, Vol. 541, 728-741)

Romeu A, Muasher S, Acosta AA, Liu H, Rosenwaks Z. Hormonal and follicular behavior of patients displaying multifollicular ovarian response (MOR) when undergoing IVF with different stimulation protocols. Vth World Congress on *In Vitro* Fertilization and Embryo Transfer, Norfolk Virginia, April 5 - 10, 1987, p. 42

Muasher SJ. Stimulation protocols for patients with atypical response. Vth World Congress on *In Vitro* Fertilization and Embryo Transfer, Norfolk, VA, April 5-10, 1987. (In: Annals of the New York Academy of Sciences, Jones HW Jr., Schrader C.(eds.), New York. Vol. 541, 82-95, 1988)

Aleem FA, Liu H-C, Muasher SJ. Identification of β -endorphin in cultured granulosa cells from follicular aspirate of patients undergoing *in vitro* fertilization. Vth World Congress on *In Vitro* Fertilization and Embryo Transfer, Norfolk, Virginia, April 5-10, 1987

Navot D, Muasher S, Kreiner D, Flood J, Droesch K, Oehninger S, Rosenwaks Z. Is there a best stimulation protocol: Analysis of outcome in different FSH/LH ratios. 43rd Annual Meeting of the American Fertility Society, September 28-30, 1987

Navot D, Kreiner D, Muasher SJ, Veeck LL, Acosta AA, Rosenwaks Z. Outcome of patients with idiopathic infertility during *in vitro* fertilization cycles. Vth World Congress on *In Vitro* Fertilization and Embryo Transfer, Norfolk, Virginia, April 5-10, 1987, p 91

Kreiner D, Droesch K, Muasher S, Itskovitz J, Liu H-C, Jones GS, Jones HW Jr. Spontaneous LH surges

are associated with increasing FSH in IVF-ET. 43rd Annual Meeting, The American Fertility Society, Reno, Nevada. September 28-30, 1987

Boutteville C, Muasher S, Acosta A, Jones HW Jr., Rosenwaks Z. Results of *in vitro* fertilization (IVF) attempts in patients with one or two ovaries. Vth World Congress on *In Vitro* Fertilization and Embryo Transfer, Norfolk, Virginia, April 5-10, 1987, p 42

Kreiner D, Droesch K, Muasher S, Itskovitz J, Liu H-C, Jones GS, Rosenwaks Z. Serum FSH inhibition is a marker for preovulatory oocytes in IVF-ET. 43rd Annual Meeting of the American Fertility Society, September 28-30, 1987

Muasher SJ. Stimulation protocols for patients with "atypical response". Vth World Congress on *In Vitro* Fertilization and Embryo Transfer, Norfolk, Virginia, April 5-10, 1987

Droesch K, Muasher SJ, Kreiner D, Jones GS, Acosta AA. Timing of oocyte retrieval in cycles with a spontaneous luteinizing hormone (LH) surge in a large *in vitro* fertilization (IVF) program. XLIII Annual Meeting of The American Fertility Society, Reno, Nevada, September 28-30, 1987

1988

Jones GS, Muasher SJ, Liu H-C. Gonadotropin stimulation protocols in the Norfolk IVF program 1988. International Symposium on the Recent Advances in Gonadotropins: Therapeutic Applications. (J Steroid Biochem (33(4)Part B:823-826, 1989), Paris, France, April 20-22, 1988

Liu H-C, Kreiner D, Muasher SJ, Acosta A, Veeck LL, Jones D, Jones G, Jones H Jr., Rosenwaks Z. β -HCG as a monitor in pregnancy outcome in IVF-ET patients. 70th Annual Meeting of the Endocrine Society, New Orleans, LA, June 8-11, 1988

Scott RT, Flood JT, Toner JP, Muasher SJ, Liu H-C, Rosenwaks Z. Cycle day 3 follicle stimulating hormone (FSH) levels are predictive of outcome in *in vitro* fertilization and embryo transfer. 44th Annual Meeting of the American Fertility Society, October 10-13, 1988

Edelstein M, Brzyski R, Scott R, Oehninger S, Simonetta S, Jones D, Muasher SJ. Equivalency of human menopausal gonadotropin and pure FSH for ovarian stimulation for *in vitro* fertilization after GnRH-agonist suppression. 44th Annual Meeting of the American Fertility Society, October 10-13, 1988

Brzyski RG, Muasher SJ, Droesch K, Simonetti S, Jones GS. Follicular atresia associated with concurrent initiation of a gonadotrophin-releasing hormone agonist (GnRH-a) and follicle stimulating hormone (FSH) for oocyte recruitment for *in vitro* fertilization. 44th Annual Meeting of the American Fertility Society, Atlanta, October 10-13, 1988

Oehninger S, Scott R, Muasher SJ, Coddington CC, Acosta AA, Hodgen GD. Hemizona assay: Assessment of human spermatozoa dysfunction and its correlation with *in vitro* fertilization results. Sixth World Congress on *In Vitro* Fertilization and Alternate Assisted Reproduction; Latin American Meeting on Human Reproduction, 1988

Hofmann GE, Toner JP, Muasher SJ, Jones D, Liu H-C, Jones GS. High-dosage follicle stimulating hormone (FSH) ovarian stimulation in low responder patients with high basal serum FSH for *in vitro* fertilization (IVF). 44th Annual Meeting of the American Fertility Society, October 10-13, 1988

Scott RT, Hofmann GE, Flood JT, Brzyski RG, Muasher SJ. Intercycle variability of day 3 follicle stimulating

hormone (FSH) Levels and its effect on stimulation quality in *in vitro* fertilization and embryo transfer (IVF/ET). 44th Annual Meeting of the American Fertility Society, October 10-13, 1988

Oehninger S, Acosta AA, Muasher SJ, Kreiner D, Jones D, Rosenwaks Z. *In vitro* fertilization and embryo transfer: An established and successful therapy for endometriosis. American College of Obstetricians and Gynecologists, 1988

Flood JT, Scott RT, Muasher SJ, Liu H-C, Oehninger S, Jones HW Jr. Parameters for predicting the *in vitro* fertilization outcome of women in their fifth decade. 70th Annual Meeting of The Endocrine Society, New Orleans, LA, June 8-11, 1988

Muasher SJ, Oehninger S, Simonetti S, Matta J, Liu H-C, Jones GS, Rosenwaks Z. Value of basal and/or stimulated serum gonadotropin levels in prediction of stimulation response and *in vitro* fertilization outcome. American College of Obstetricians and Gynecologists, 1988

1989

Hofmann GE, Brzyski RG, Scott RT, Jones HW Jr. Concentrations of immunoreactive epidermal growth factor in follicular fluid from *in vitro* fertilization: Correlation with gonadal steroid concentrations and oocyte quality in lupron and non-lupron cycles. 45th Annual Meeting of the American Fertility Society, San Francisco, 1989

Simonetti S, Veeck LL, Brothman L, Amundson C, Rogers M, Acosta AA, Oehninger S, Muasher SJ. Cryopreservation of pre-embryos at the pronuclear stage using 1,2 propanediol. 45th Annual Meeting of the American Fertility Society, November 13-16, 1989

Edelstein MC, Jones D, Denis A, Scott RT, Brzyski RG, Muasher SJ. Does a history of a successful *in vitro* fertilization pregnancy increase one's chance of conceiving in a subsequent cycle? Annual Meeting of the Pacific Coast Fertility Society, Palm Springs, California, 1989

Edelstein MC, Brzyski RG, Scott RT, Oehninger S, Simonetti S, Jones DL, Muasher SJ. Equivalency of human menopausal gonadotropin and pure follicle stimulating hormone for ovarian stimulation for *in vitro* fertilization after gonadotropin-releasing hormone agonist suppression. 45th Annual Meeting of the American Fertility Society, San Francisco, 1989

Oehninger S, Scott RT, Muasher SJ, Coddington CC, Acosta AA, Hodgen GD. Hemizona assay: Assessment of human spermatozoa dysfunction and its correlation with *in vitro* fertilization results. VI World Congress of In Vitro Fertilization and Alternate Assisted Reproduction, Jerusalem, 1989, p 149

Denis ALC, Hofmann GE, Scott RT, Muasher SJ. The incidence of hyperprolactinemia during gonadotropin stimulation and its effect on outcome in *in vitro* fertilization (IVF). 36th Annual Meeting, The Society for Gynecologic Investigation, San Diego, CA, March 15-18, 1989

Veeck LL, Oehninger S, Acosta AA, Muasher SJ. Microinjection in a clinical *in vitro* fertilization program. American Fertility Society, 1989

Flood JT, Scott RT, Brzyski R, Muasher SJ, Denis A, Jones HW Jr. The occult ovarian factor in unexplained infertility. 37th Annual Meeting of the American College of Obstetricians and Gynecologists, Atlanta, 1989

Edelstein MC, Brzyski RG, Sieg SM, Muasher SJ. Ovarian stimulation for *in vitro* fertilization using pure follicle stimulating hormone with and without a gonadotropin-releasing hormone agonist in high-responder patients. 37th Annual Meeting of the American College of Obstetricians and Gynecologists, Atlanta, 1989

Acosta AA, Oehninger S, Hammer J, Muasher SJ, Liang H, Jones D. Preclinical abortions: Incidence and significance in the Norfolk program. Sixth World Congress on *In Vitro* Fertilization and Alternate Assisted Reproduction, Jerusalem, 1989, p 16

Scott RT, Hofmann G, Oehninger S, Muasher SJ, Jones GS, Jones HW Jr. Progesterone concentrations and estradiol: Progesterone ratios in the early and mid-luteal phase affect endometrial receptivity. Sixth World Congress on *In Vitro* Fertilization and Alternate Assisted Reproduction, Jerusalem, 1989, p. 67

Veeck LL, Oehninger S, Acosta AA, Muasher SJ. Sperm microinjection in a clinical *in vitro* fertilization program. 45th Annual Meeting of the American Fertility Society, November 13-16, 1989

Acosta AA, Oehninger S, Muasher SJ, Valdes H, Jones D. Treatment cycle cancellation in the Norfolk *in vitro* fertilization program: Critical analysis and prognostic significance. Sixth World Congress on *In Vitro* Fertilization and Alternate Assisted Reproduction, Jerusalem, 1989, p. 6

Karande VC, Jones GS, Kruthoff C, Jones DL, Muasher SJ. The value of high dosage follicle stimulating hormone (FSH) stimulation at the onset of the menstrual cycle for *in vitro* fertilization (IVF) in low responder patients. 45th Annual Meeting of the American Fertility Society, November 13-16, 1989

Brzyski R, Jones GS, Jones HW Jr, Oehninger S, Muasher SJ. Improved luteal phase progesterone production following pituitary suppression with leuprolide acetate prior to follicular stimulation for *in vitro* fertilization. American Fertility Society, 1989

1990

Toner JP, Hassiakos DK, Muasher SJ, Hsiu JG, Jones HW Jr. Endometrial receptivities after leuprolide suppression and gonadotropin stimulation histology steroid receptor concentrations and implantation rates. In: Buletti C and Gurdip E (eds.). The primate endometrium, 662:220-229, 1990. First International Conference, New York Academy of Sciences, New York, NY. May 28-30, 1990

Toner JP, Karande V, Jones GS, Muasher SJ. Basal follicle stimulating hormone (FSH) level is a better predictor of *in vitro* fertilization (IVF) performance than age. 46th Annual Meeting of the American Fertility Society, Washington, DC, October 15-18, 1990

Winslow KL, Toner JP, Brzyski RG, Acosta AA, Muasher SJ. Change in estradiol after administration of leuprolide acetate: A sensitive index of ovarian hyperstimulation and IVF outcome. ACOG District IV Meeting, The Greenbrier, White Sulphur Springs, West Virginia, October, 1990

Muasher SJ, Kruthoff C, Simonetti S, Oehninger S, Acosta AA, Jones GS. Controlled preparation of the endometrium with exogenous steroids for the transfer of frozen-thawed pre-embryos in patients with anovulation. 46th Annual Meeting of the American Fertility Society, Washington, DC, October 15-18, 1990

Toner JP, Hassiakos D, Muasher SJ, Hsui JG, Jones HW Jr. Endometrial histology in *in vitro* fertilization (IVF) cycles varies with steroid levels achieved. 46th Annual Meeting of the American Fertility Society, Washington, DC, October 13-18, 1990

Muasher SJ, Toner JP, Brzyski RG, Simonetti S, Jones HW Jr. Implantation is not impaired when many oocytes are retrieved in leuprolide pretreated *in vitro* fertilization (IVF) cycles. 46th Annual Meeting of the American Fertility Society, Washington, DC, October 15-18, 1990

Toner JP, Brzyski RG, Oehninger S, Jones D, Simonetti S, Muasher SJ. Is implantation impaired when large

numbers of oocytes are retrieved in gonadotropin-releasing hormone agonist (GnRHa)/gonadotropin stimulated cycles for *in vitro* fertilization (IVF)? 38th Annual Meeting of the American College of Obstetricians and Gynecologists, San Francisco, 1990

Muasher SJ, Kruihoff C, Webster S, Castillo K, Wilken L, Jones HW, Jones GS. Natural cycle *in vitro* fertilization (IVF): A simplified treatment method. 46th Annual Meeting of the American Fertility Society, October 13-18, 1990

Edelstein MC, Brzyski RG, Muasher SJ. Ovarian stimulation for *in vitro* fertilization in low responder patients using pulsatile intravenous pure follicle stimulating hormone. 37th Annual Meeting of the Society for Gynecologic Investigation. St. Louis, MO, March 21-24, 1990

Toner JP, Acosta AA, Simonetti S, Veeck LL, Muasher SJ. Predictive value of pregnancy during original *in vitro* fertilization (IVF) cycles on implantation and pregnancy in subsequent cryo-thaw cycles. 37th Annual Meeting of the Society for Gynecologic Investigation, St. Louis, MO, March 21-24, 1990

Winslow K, Brzyski RG, Acosta AA, Muasher SJ. Prediction of response to stimulation from initial estradiol (E₂) response to leuprolide acetate (LA) in a "Flare-up" stimulation regimen for *in vitro* fertilization (IVF). 46th Annual Meeting of the American Fertility Society, Washington, DC, October 13-18, 1990

Abramowicz J, Webster S, Oehninger S, Muasher SJ. Transvaginal Doppler velocimetry of the uterine arteries in IVF patients. American Fertility Society, October 13-18, 1990.

1991

Toner JP, Veeck LL, Muasher SJ. Basal FSH and age influence performance of frozen pre-embryos. 47th Annual Meeting of the American Fertility Society, October 21-24, 1991

Irianni FM, Brzyski R, Muasher SJ. Comparison of IVF outcome between patients with basal LH/FSH ratio >2 on cycle day 3 and patients with LH/FSH ratio <1.5. 47th Annual Meeting, American Fertility Society, Orlando, FL, 1991

Seoud MA-F, Patterson R, Muasher SJ, Coddington CC. The effect of leiomyomata and/or prior myomectomy on IVF performance. ACOG District IV, Charleston, SC, October 6-10, 1991

Winslow KL, Toner JP, Brzyski RG, Acosta AA, Oehninger S, Muasher SJ. GnRH-agonist stimulation test - a sensitive predictor of IVF performance in the "flare-up" cycle. 47th Annual Meeting, American Fertility Society, Orlando, FL, 1991

Seoud M, Patterson R, Muasher SJ and Coddington CC. Influence of leiomyomata or prior myomectomy on the outcome of IVF: The Norfolk experience. Presented at the American college of Obstetricians and Gynecologists, District IV Annual Meeting, Charleston, SC, Nov 2-5, 1991

Irianni FM, Veeck LL, Toner JP, Muasher SJ. Influence of number of pre-embryos transferred progesterone value and E₂P₄ ratio at thaw on pregnancy results during replacement of cryopreserved embryos in natural cycles. 7th World Congress on *In Vitro* Fertilization and Assisted Procreation. Paris, France, 1991, (27) p 119

Seoud M, Kruihoff C and Muasher SJ. Outcome of triplet and quadruplet pregnancies resulting from IVF: The Norfolk experience. The 7th World Congress for *In Vitro* Fertilization and Assisted Procreation, Paris, France June 30-July 3, 1991 (90), p 140

Seoud M, Toner JP, Kruihoff C and Muasher SJ. Outcome of twin pregnancies resulting from IVF: The Norfolk experience. The 7th World Congress for *In Vitro* Fertilization and Assisted Procreation, Paris, France June 30-July 3, 1991, (p179), p 228

Seoud M, Toner JP, Kruihoff C and Muasher SJ. Outcome of twin, triplet and quadruplet pregnancies resulting from IVF: The Norfolk experience. Presented at the 47th Annual Meeting of the American Fertility Society, Orlando, Florida October 19-24, 1991

Oehninger S, Toner JP, Acosta AA, Brzyski RG, Veeck LL, Muasher SJ. Performance of cryopreserved pre-embryos obtained in IVF cycles with or without a gonadotropin-releasing hormone agonist (GnRH_a). 7th World Congress on *In Vitro* Fertilization and Assisted Procreation. Paris, France, 1991, 26, p 118

Brzyski RG, Ueno J, Oehninger S, Acosta AA, Muasher SJ. Predictive value of sonographic endometrial patterns in natural and stimulated cycles for *in vitro* fertilization. 38th Annual Meeting of the Society for Gynecological Investigation, San Antonio, TX, March 20-23, 1991

Oehninger S, Acosta A, Kruger T, Coddington C, Veeck L, Muasher S, Hodgen GD. Recurrent failure of *in vitro* fertilization (IVF): Role of the hemizona assay (HZA) in the sequential diagnosis of specific sperm-oocyte defects. VII World Congress IVF/ET ABST #68, Paris, France, June 30 - July 3, 1991

Muasher SJ. Stimulation protocols at Norfolk, 1989-1990: Patient selection and results. 47th Annual Meeting of the American Fertility Society, October 21-24, 1991

Khalifa E, Oehninger S, Acosta A, Morshedi M, Veeck L, Brzyski R, Muasher S. Successful fertilization and pregnancy outcome in IVF using cryopreserved/thawed semen from patients with malignant diseases. 47th Annual Meeting, American Fertility Society, Orlando, FL, 1991

Toth TL, Oehninger S, Brzyski RG, Muasher SJ. Transfer of pre-embryos to the uterus or the fallopian tube following *in vitro* fertilization yields similar results. 47th Annual Meeting of the American Fertility Society, October 21-24, 1991

Muasher SJ, Toth T, Kruihoff C, Jones GS. The use of gonadotropin releasing hormone agonist (GnRH-a) in a luteal suppression vs. follicular "flare-up" in conjunction with gonadotropins for ovarian hyperstimulation for *in vitro* fertilization in patients with normal basal gonadotropin levels: A randomized prospective study. 47th Annual Meeting of the American Fertility Society, October 21-24, 1991

1992

Toner JP, Seoud M, Muasher SJ. High and low risk factors for multiple pregnancy: Utility of age and basal FSH. 39th Annual Meeting of the Society for Gynecologic Investigation, San Antonio, TX, March 18-21, 1992

Grow DR, Oehninger S, Brzyski RG, Muasher SJ. A prospective randomized study comparing gonadotropin-releasing hormone analog (GnRH-a) flare-up with high dose follicle stimulating hormone (FSH) versus high dose FSH stimulation along in low responder *in vitro* fertilization patients. The American Fertility Society, 1992

Muasher SJ, Veeck L, Oehninger S, Brzyski R, Acosta A. Transfer of cryopreserved-thawed pre-embryos in a natural cycle or in a controlled programmed cycle with exogenous steroids yield similar pregnancy results. The American Fertility Society, 1992

Sims JA, Grow DR, Toth TL, Benowitz NL, Muasher SJ, Coddington CC. Follicular fluid levels of nicotine and cotinine: Effect on outcome in *in vitro* fertilization-embryo transfer. Society for Gynecologic Investigation,

1992

Baka SG, Veeck LL, Jones HW, Muasher SJ, Lanzendorf SE. Cryopreservation and *in vitro* fertilization of immature human oocytes. Society for Gynecologic Investigation, 1992

Muasher SJ, Veeck L, Oehninger S, Brzyski R, Acosta A. Cycle with exogenous steroids yield similar pregnancy results. The American Fertility Society, 1992

Sims JA, Seltman H, Muasher SJ. Early follicular serum progesterone (P_4) levels are not predictive of outcome in flare-up gonadotropin-releasing hormone agonist (GnRH α) cycles in *in vitro* fertilization (IVF). The American Fertility Society, 1992

Grow DR, Brzyski RG, Muasher SJ. A prospective randomized study comparing gonadotropin-releasing-hormone-analogue (GnRH-a) flare-up with high dose follicle-stimulating hormone (FSH) versus high dose FSH stimulation alone in low responder patients *in vitro* fertilization patients. The American Fertility Society, 1992

1993

Grow DR, Seltman HJ, Toner JP, Muasher SJ, Oehninger S. Sperm morphology (strict criteria) and motility and their impact on fertilization rate: An analysis of 2808 IVF cycles. The 1993 Conjoint Meeting of The American Fertility Society and the Canadian Fertility and Andrology Society, Abstract O-029, S-15

Sims JA, Jones D, Butler L, Muasher SJ. Effect of hydrosalpinx on outcome in *in vitro* fertilization (IVF). The 1993 Conjoint Meeting of The American Fertility Society and the Canadian Fertility and Andrology Society, Abstract O-032, S-95

Moffitt D, Queenan J, Grow D, Sims J, Veeck L, Muasher SJ. The effect of glucocorticoids on pregnancy rates from embryo transfer. The 1993 Conjoint Meeting of The American Fertility Society and the Canadian Fertility and Andrology Society, Abstract O-050, S-104

Moffitt D, Veeck L, Muasher SJ. The influence of size and distribution of nuclear maturity of a recruited cohort of oocytes on the developmental potential of immature oocytes *in vitro*. The 1993 Conjoint Meeting of The American Fertility Society and the Canadian Fertility and Andrology Society, Abstract O-051, S-104

Muasher SJ, Oehninger S, Brzyski R, Veeck L, Jones GS. Stimulation protocols and results at the Jones Institute, 1991-1992. The American Fertility Society, 1993

Qahwaji L, DeSiciolo C, Veeck L, Muasher SJ, Oehninger S. Comparison of swim-up and discontinuous mini-Percoll gradients (3 and 6 layers) for separation of the sperm motile fraction: Motility parameters and fertilization outcome of sibling oocytes. The American Fertility Society, 1993

1994

Baka SG, Lanzendorf SE, Toth TL, Veeck LL, Jones HW, Muasher S. Evaluation of the spindle apparatus of *in vitro* matured human oocytes following cryo-preservation. The meeting of the Society for Gynecologic Investigation, Chicago, IL, March 1994, Abstract O167

Poe-Zeigler RL, Toner JP, Oehninger S, Muasher SJ. Basal FSH affects IVF pregnancy rates primarily by influencing oocyte numbers and not oocyte quality. The American Fertility Society Annual Meeting, November 5-10, 1994, chosen for oral presentation, Abstract #O-014, p. S8

Svendsen TO, Jones D, Butler L, Muasher SJ. The incidence of multiple gestations after *in vitro* fertilization

(IVF) is dependent upon the number of embryos transferred and maternal age. The American Fertility Society, Annual Meeting, November 5-10, 1994, Abstract #P-030, p. S100

Queenan J, Moffitt D, Jones D, Cox B, Muasher S. Progesterone (P_4) levels on the day of human chorionic gonadotropin (hCG) administration do not differ between follicle stimulating hormone (FSH) and FSH/human menopausal gonadotropin (hMG) protocols in controlled ovarian hyperstimulation (COH) after mid-luteal pituitary suppression with leuprolide acetate (LA). The American Fertility Society Annual Meeting, November 5-10, 1994, Abstract #P-009, p. S91

Moffitt D, Queenan J, Shaw R, Seltman H, Muasher S. Progesterone (P_4) levels on the day of human chorionic gonadotropin (hCG-0), or the day after (hCG+1), do not predict pregnancy (P) outcome (O) from the transfer of fresh or cryopreserved embryos (CRYO) from the same cohort. The American Fertility Society Annual Meeting, November 5-10, 1994, Abstract #P-094, p. S130

Grow D, Toner JP, Morshedi M, Mossad RJ, Swanson S, Oehninger S. Value of sperm morphology assessed by strict criteria for prediction of the outcome of artificial (intrauterine) insemination. The American Fertility Society Annual Meeting, November 5-10, 1994

Poe-Zeigler R, Toner JP, Oehninger S, Muasher SJ. Basal FSH affects IVF pregnancy rates primarily by influencing oocyte numbers and not their quality. Abstract #O-014, p S8, American Fertility Society, San Antonio, TX, November 5-10, 1994 (oral presentation)

Oehninger S, Toner JP, Veeck L, Mahony M, Muasher SJ. Oocyte micromanipulation for assisted fertilization: Identification of specific gamete defects to improve patient and technique selection criteria. The American Fertility Society, 1994

1995

Oehninger S, Veeck L, Lanzendorf S, Toner JP, Muasher SJ. Intracytoplasmic sperm injection (ICSI): Achievement of high pregnancy rates in couples with severe male infertility is dependent upon female and not male factors. Society for Gynecological Investigation, Chicago, IL, March 16-18, 1995 (oral presentation)

Poe-Zeigler R, Butler L, Veeck L, Toner JP, Oehninger S, Muasher SJ. Varying the dosage of progesterone administration (50 vs. 100 mg in oil i.m. daily) in a controlled cycle for the transfer of cryo-thawed prezygotes has no impact on pregnancy results: A randomized prospective study. Abstract #OC-166, Journal of Assisted Reproduction and Genetics 12(s):68S, 1995. Ninth World Congress on IVF and Assisted Reproduction, Vienna, Austria, April 3-8, 1995 (oral presentation)

Queenan J, Veeck LL, Toner JP, Oehninger S, Muasher SJ. Cryopreservation of all prezygotes in patients at risk for severe hyperstimulation does not eliminate the syndrome, but the chances of pregnancy are excellent with subsequent cryo-thaw transfers. Abstract #OC-165, Journal of Assisted Reproduction and Genetics 12(s):68S, 1995, Ninth World Congress on IVF and Assisted Reproduction, Vienna, Austria, April 3-8, 1995 (oral presentation)

Poe-Zeigler R, Shelton K, Toner JP, Oehninger S, Muasher SJ. Salpingectomy(ies) improves the pregnancy rate after IVF in patients with unilateral or bilateral hydrosalpinx. Abstract #PS6-5, Journal of Assisted Reproduction and Genetics 12(s):10S, 1995, Ninth World Congress on IVF and Assisted Reproduction, Vienna, Austria, April 3-8, 1995 (oral presentation)

Oehninger S, Veeck L, Lanzendorf S, Maloney M, Toner JP, Muasher SJ. Intra-cytoplasmic sperm injection (ICSI): Achievement of high pregnancy rates in couples with severe male factor infertility is dependent upon

female and not male factors. Abstract #OC-223, Journal of Assisted Reproduction and Genetics, Ninth World Congress on IVF and Assisted Reproduction, Vienna, Austria, April 3-8, 1995 (oral presentation)

Toner JP, Oehninger S, Veeck LL, Maloney M, Muasher SJ. Degree of embryo selection influences IVF outcome. Abstract #OC-151, Journal of Assisted Reproduction and Genetics 12(s):64S, 1995, Ninth World Congress on IVF and Assisted Reproduction, Vienna, Austria, April 3-8, 1995 (oral presentation)

Lanzendorf SE, Maloney M, Weedon VM, Cappuzzo KA, Mayer J, Oehninger S, Muasher S. Evaluation of oocyte cytology and its effect on fertilization and pregnancy following intracytoplasmic sperm injection. 51st Annual Meeting of the American Society for Reproductive Medicine, Seattle, WA, October 7-12, 1995

Mohyi D, Lanzendorf S, Mayer J, Mahony M, Toner JP, Muasher S, Oehninger S. Intracytoplasmic sperm injection (ICSI): Does any sperm characteristic of the original or processed semen sample impact significantly on fertilization or implantation outcome? American Society for Reproductive Medicine, Seattle, WA, October 7-12, 1995

Oehninger S, Toner JP, Veeck L, Mahony M, Muasher SJ. Oocyte micromanipulation for assisted fertilization: Identification of specific gamete defects to improve patient and technique selection criteria. Abstract #P-021, p S96, American Fertility Society, San Antonio, TX, November 5-10, 1994 (poster presentation)

Lanzendorf SE, Veeck LL, Maloney M, Butler L, Toner J, Muasher S, Oehninger S. Effect of female age on pregnancy rates following intracytoplasmic sperm injection for the treatment of male factor infertility. American Society for Reproductive Medicine, Seattle, WA, October 7-12, 1995

Lanzendorf SE, Veeck LL, Maloney M, Butler L, Toner JP, Muasher SJ, Oehninger S. Effect of female age on pregnancy rates following intracytoplasmic sperm injection for the treatment of male factor infertility. 51st Annual Meeting of the American Society of Reproductive Medicine, Seattle, WA, October 7-12, 1995

Schenk LM, Ramey JW, Throneberry EM, Mohyi D, Muasher SJ, Coddington CC, Oehninger S, Toner JP. Fallopian tube sperm perfusion (FSP) vs. intrauterine insemination (IUI) in an unselected ovulation induction (OI) population: A prospective, randomized trial. American Society of Reproductive Medicine, 51st Annual Meeting, Seattle, WA, October 7-12, 1995

Mohyi D, Lanzendorf S, Mayer J, Mahony M, Toner JP, Muasher SJ, Oehninger S. Intracytoplasmic sperm injection: Does any sperm characteristic of the original or processed semen sample impact significantly on fertilization or implantation outcome? 51st Annual Meeting of the American Society of Reproductive Medicine, Seattle, WA, October 7-12, 1995

Oehninger S, Veeck L, Lanzendorf S, Maloney M, Toner JP, Muasher SJ. Intracytoplasmic sperm injection (ICSI): Achievement of high pregnancy rates in couples with severe male factor infertility is dependent upon female and not male factors. American Society of Reproductive Medicine, Seattle, WA, October 7-12, 1995

Ramey JR, Seltman HJ, Butler L, Veeck LL, Muasher SJ: Transfer of cryopreserved-thawed prezygotes in a programmed cycle using exogenous steroids, without prior suppression with a GnRH-agonist, yields favorable pregnancy results. American Society of Reproductive Medicine, Seattle, WA, October 7-12, 1995

Mayer JF, Veeck LL, Maloney M, Rodriguez E, Oehninger S, Cappuzzo KA, Lanzendorf SE, Muasher S. Embryo cryopreservation following intracytoplasmic sperm injection: The effect of freezing protocol on cryo survival and pregnancy outcome. 51st Annual Meeting of the American Society for Reproductive Medicine, Seattle, WA, October 7-12, 1995

Toner JP, Oehninger S, Veeck LL, Maloney M, Muasher SJ. Degree of embryo selection influences IVF outcome. IXth World Congress on *In Vitro* Fertilization and Assisted Reproduction, Vienna, Austria, April 3-7, 1995

Oehninger S, Veeck L, Lanzendorf S, Maloney M, Toner JP, Muasher SJ. Intracytoplasmic sperm injection (ICSI): Achievement of high pregnancy rates in couples with severe male factor infertility is dependent upon female and not male factors. IXth World Congress on *In Vitro* Fertilization and Assisted Reproduction, Vienna, Austria, April 3-7, 1995

Poe-Zeigler R, Shelton K, Toner JP, Oehninger S, Muasher SJ: Salpingectomy(ies) improves the pregnancy rate after IVF in patients with unilateral or bilateral hydrosalpinx. IXth World Congress on *In Vitro* Fertilization and Assisted Reproduction, Vienna, Austria, April 3-7, 1995

Ramey JR, Seltman HJ, Butler L, Veeck LL, Muasher SJ. Transfer of cryopreserved-thawed prezygotes in a programmed cycle using exogenous steroids, without prior suppression with a GnRH agonist, yields favorable pregnancy results. IXth World Congress on *In Vitro* Fertilization and Assisted Reproduction, Vienna, Austria, April 3-7, 1995

Queenan J, Veeck LL, Toner JP, Oehninger S, Muasher SJ. Cryopreservation of all prezygotes in patients at risk for severe hyperstimulation does not eliminate the syndrome, but the chances of pregnancy are excellent with subsequent cryo-thaw transfers. IXth World Congress on *In Vitro* Fertilization and Assisted Reproduction, Vienna, Austria, April 3-7, 1995

Poe-Zeigler R, Butler L, Veeck L, Toner JP, Muasher SJ. Varying the dosage of progesterone administration (50 vs. 100 mg P₄ in oil i.m. daily) in a controlled cycle for the transfer of cryo-thawed prezygotes has no impact on pregnancy results: A randomized prospective study. IXth World Congress on *In Vitro* Fertilization and Assisted Reproduction, Vienna, Austria, April 3-7, 1995

1996

Muasher S, Mayer J, Jones D, Butler L, Toner J, Oehninger S. Higher pregnancy results are obtained with follicle stimulating hormone (FSH) alone than with FSH/human menopausal gonadotropin (hMG) combination despite similar stimulation characteristics. American Society for Reproductive Medicine, 52nd Annual Meeting, November 2-7, 1996, Boston, MA

Muasher SJ, Mohyi D, Mayer J, Cox B, Toner J, Oehninger S. Cessation of gonadotropin-releasing hormone agonist (GnRH-a) combined with high dosage gonadotropin stimulation yield favorable pregnancy results in low responder patients. American Society for Reproductive Medicine, 52nd Annual Meeting, November 2-7, 1996, Boston, MA

Schenk LM, Butler L, Monis JP, Cox B, Leete J, Abuhamad A, Oehninger S, Toner JP, Muasher S. Heparin and aspirin treatment yields higher implantation rates in IVF patients with antibody seropositivity compared to untreated seronegative patients. American Society for Reproductive Medicine, 52nd Annual Meeting, November 2-7, 1996, Boston, MA

Schenk LM, Jones D, Muasher SJ. Poor pregnancy outcome in patients with tubal factor following assisted reproductive technology: Possible detrimental effects of tubal content. American Society for Reproductive Medicine, 52nd Annual Meeting, November 2-7, 1996, Boston, MA

Faber B, Hamacher P, Muasher SJ, Toner JP. The impact of an egg donor's age and her prior fertility on recipient pregnancy outcome. American Society for Reproductive Medicine, 52nd Annual Meeting,

November 2-7, 1996, Boston, MA

Faber B, Hamacher P, Muasher SJ, Toner JP. Pregnancy rates are similar for egg donors and their recipients when donor eggs are shared. American Society for Reproductive Medicine, 52nd Annual Meeting, November 2-7, 1996, Boston, MA

Faber B, Jones D, Oehninger S, Muasher S. Similar stimulation characteristics and pregnancy results are obtained from stimulations with follicle stimulating hormone (FSH) alone or FSH/human menopausal gonadotropin (hMG) combination in patients requiring intracytoplasmic sperm injection (ICSI). American Society for Reproductive Medicine, 52nd Annual Meeting, November 2-7, 1996, Boston, MA

Mayer J, Walker D, Jones E, Maloney M, Weedon V, Cappuzzo K, Toner JP, Oehninger S, Muasher SJ: Significantly different pregnancy rates in a randomized study of two different transfer catheters and procedures. American Society for Reproductive Medicine, 52nd Annual Meeting, November 2-7, 1996, Boston, MA

Mayer J, Walker D, Jones E, Maloney M, Weedon V, Cappuzzo K, Toner JP, Oehninger S, Muasher SJ. The fate of cryopreserved embryos: Ten years of experience. American Society for Reproductive Medicine, 52nd Annual Meeting, November 2-7, 1996, Boston, MA

Mayer J, Walker D, Jones E, Weedon V, Cappuzzo K, Toner JP, Oehninger S, Muasher SJ. Better oocyte quality is obtained with follicle stimulating hormone (FSH) alone than with FSH/human menopausal gonadotropin (hMG) combination. American Society for Reproductive Medicine, 52nd Annual Meeting, November 2-7, 1996, Boston, MA

Lanzendorf SE, Nehchiri F, Hamacher P, Mayer J, Muasher S, Toner J. The use of intracytoplasmic sperm injection in a donor oocyte program. American Society for Reproductive Medicine, 52nd Annual Meeting, November 2-7, 1996, Boston, MA

Lanzendorf SE, Nehchiri F, Butler L, Mayer J, Toner J, Oehninger S, Muasher S. A prospective, randomized, double-blind study for evaluation of assisted hatching in an *in vitro* fertilization program. American Society for Reproductive Medicine, 52nd Annual Meeting, November 2-7, 1996, Boston, MA

Mohyi D, Toner JP, Muasher SJ. Endometrial pattern and thickness do not influence pregnancy rates in unstimulated recipients of donor eggs. American Society for Reproductive Medicine, 52nd Annual Meeting, November 2-7, 1996, Boston, MA

Voll S, Hamacher P, Toner J, Muasher S. Pertinent oocyte donor characteristics -what oocyte recipients wish to know about oocyte donors. American Society for Reproductive Medicine, 52nd Annual Meeting, November 2-7, 1996, Boston, MA

1997

Mercan R, Lanzendorf S, Nassar A, Mayer J, Muasher SJ, Oehninger S. The outcome of clinical pregnancies following ICSI is not affected by semen quality. American Society for Reproductive Medicine 53rd Annual Meeting, October 18-22, 1997, Cincinnati, Ohio

1998

Huey SJ, Abuhamed A, Mayer F, Brown S, Toner, JP, Muasher SJ, Oehninger S. Perifollicular Blood Flow, Follicular O₂ Content and pH Analysis and Their Relationship to Oocyte Developmental Potential. American Society for Reproductive Medicine 54th Annual Meeting, October 3-9, 1998, San Francisco, CA

Mayer J, Oehninger S, Gardner DK, Schoolcraft WB, Weedon V, Nehchiri F, Jones E, Muasher SJ, A Prospective Randomized Evaluation of Two Culture Systems Using Frozen-Thawed Human Embryos: Blastocyst Development, Trophoblast/Inner Cell Mass Ratios and Cell Death. American Society for Reproductive Medicine 54th Annual Meeting, October 3-9, 1998, San Francisco, CA

Mayer J, Weedon, V, Nehchiri F, Jones E, Oehninger S, Gardner DK, Schoolcraft WB, Muasher SJ, Blastocyst Development of Human Embryos with Poor Morphological Grades: A Comparison of Two Different Culture Systems. American Society for Reproductive Medicine 54th Annual Meeting, October 3-9, 1998, San Francisco, CA

Develioglu OH, Cox B, Muasher SJ, The Value of Basal Serum Follicle Stimulating Hormone (FSH), Luteinizing Hormone (LH) and Estradiol (E₂) Levels, Following Pituitary Down-Regulation, in Predicating Ovarian Response to Stimulation with Highly-Purified FSH for In Vitro Fertilization (IVF). American Society for Reproductive Medicine 54th Annual Meeting, October 3-9, 1998, San Francisco, CA

Huey SJ, Abuhamad A, Mayer JF, Brown S, Toner JP, Muasher SJ, Oehninger S, "Perifollicular Blood Flow, Follicular O₂ Content and pH Analysis and Their Relationship to Oocyte Development Potential", 54th Annual Meeting of ASRM, October 4-9, 1998, San Francisco, CA

Mayer JF, Oehninger S, Gardner DK, Schoolcraft WB, Weedon V, Nehchiri F, Jones E, Muasher SJ. A Prospective Randomized Evaluation of Two Culture Systems Using Frozen-Thawed Human Embryos: Blastocyst Development, Trophoblast/Inner Cell Mass Ratios and Cell Death. 54th Annual Meeting of ASRM, October 4-9, 1998, San Francisco, CA

Mayer JF, Weedon V, Nehchiri F, Jones E, Oehninger S, Gardner DK, Schoolcraft WB, Muasher SJ. Blastocyst Development of Human Embryologist with Poor Morphological Grades: A Comparison of Two Different Culture Systems. 54th Annual Meeting of ASRM, October 4-9, 1998, San Francisco, CA

Mayer J, Weedon V, Juan H, Kolm P, Nehchiri F, Jones E, Muasher S, Oehninger S. Cryopreservation of human embryos: impact of embryo quality and number of embryos transferred on implantation and pregnancy outcome. 54th Annual Meeting of ASRM, October 4-9, 1998, San Francisco, CA

1999

Mayer JF, Nehchiri F, Weedon VM, Jones EL, Kalin HL, Oehninger S, Toner JP, Gibbons WE, Muasher S: Prospective randomized crossover analysis of the impact of an IVF incubator air filtration system (Coda, GenX) on clinical pregnancy rates. 55th Annual Meeting of ASRM, September 25-30 1999, Ontario, Canada

Morshedi M, Luka J, Oldfield E, Moriarty R, Gourly J, Oehninger S, Muasher S: Human immunodeficiencyvirus type 1 (HIV1) in semen, various fractions of processed semen and the peripheral blood of asymptomatic infected men with CD4+ count of ≥ 200 receiving combination antiretroviral therapy. 55th Annual Meeting of ASRM, September 25-30 1999, Ontario, Canada

Schnorr JA, Brown SE, Toner JP, Oehninger SC, Mayer JF, Muasher SJ, Lanzendorf SL. Impact of intracytoplasmic sperm injection on embryo cryopreservation and clinical outcome. 55th Annual Meeting of ASRM, September 25-30 1999, Ontario, Canada

Brown SE, Kerdelhue B, Oehninger SC, Toner JP, Muasher SJ, Jones HW Jr: Diurnal evaluation of substance P throughout the human menstrual cycle. 55th Annual Meeting of ASRM, September 25-30 1999, Ontario, Canada

Lanzendorf SL, Mayer JF, Toner JP, Oehninger S, Saffan DS, Muasher SJ. Transfer of ooplasm from

cryopreserved-thawed donor oocytes into recipient oocytes for improvement of embryo quality and pregnancy. 55th Annual Meeting of ASRM, September 25-30 1999, Ontario, Canada

Lanzendorf SL, Maloney M, Boyd CA, Wright D, Dowling-Lacey D, Oehninger S, Muasher S, Hodgen GD. Donor gametes for embryo research: comparisons of media for blastocyst development. 55th Annual Meeting of ASRM, September 25-30 1999, Ontario, Canada

Mayer J, Nechiri F, Jones E, Weedon, V. Kalin L, Lanzendorf S, Oehninger S, Toner J, Muasher S. Prospective randomized analysis of the impact of two different transfer catheters on clinical pregnancy rates. 55th Annual Meeting of ASRM, September 25-30 1999, Ontario, Canada

Mayer J, Nechiri F, Kalin H, Jones E, Weedon V, Lanzendorf S, Oehninger S, Toner J, Muasher S. Prospective Randomized Study of the Influence of Two Culture Media on pregnancy rates with Cryopreserved Zygotes. 55th Annual Meeting of ASRM, September 25-30 1999, Ontario, Canada

Jones E, Boyd CA, Dowling-Lacey D, Mayer J, Muasher S, Lanzendorf SL: "Evaluation of Meiotic Spindle Apparatus in Human Oocytes Following Cytoplasmic Donation. 55th Annual Meeting of ASRM, September 25-30 1999, Ontario, Canada

Oehninger S, Mayer J, Muasher S. Impact of different clinical variable on pregnancy outcome following embryo cryopreservation. Serono Symposia on "Storing Reproduction," Bologna, 1999

2000

Lanzendorf SE, Boyd CA, Wright DL, Muasher SJ, Oehninger S, Hodgen G. The use of gametes obtained from anonymous donors for the production of human embryonic stem cell (ESC) lines. 56th Annual Meeting of ASRM, October 21-26 2000, San Diego, CA

Williams SC, Donahue J, Muasher SJ. Vaginal progesterone therapy during programmed cycles for frozen embryo transfer: An analysis of serum progesterone levels and pregnancy rates. 56th Annual Meeting of ASRM, October 21-26 2000, San Diego, CA

Williams SC, Toner JP, Oehninger S, Donahue J, Jones D, Muasher SJ. Minimal controlled ovarian hyperstimulation (COH) using clomiphene citrate/gonadotropin for IVF/ET: Equivalent results compared to the standard long stimulation protocol with a significant reduction in cost. 56th Annual Meeting of ASRM, October 21-26 2000, San Diego, CA

2001

Williams S, Oehninger S, Gibbons W, Muasher S: Delaying the initiation of progesterone supplementation results in decreased pregnancy rates following in-vitro fertilization: a randomized study, 57th Annual meeting of the American Society for Reproductive Medicine, 2001.

Mayer J, Jones E, Nechiri F, Muasher S, Gibbons W, Oehninger S: A randomized prospective comparison of sibling human oocytes / embryos cultured in two different media. 57th Annual meeting of the American Society for Reproductive Medicine, 2001.

Wright D, Jones E, Mayer J, Muasher S, Oehninger S, Lanzendorf S: Telomerase activity in biopsied blastomeres of human day three embryos. 57th Annual meeting of the American Society for Reproductive

Medicine, 2001.

Mayer J, Jones E, Nehchiri F, Laley D, Oehninger S, Muasher S: A study of the impact of fast cleaving embryos on ART outcomes. 57th Annual meeting of the American Society for Reproductive Medicine, 2001.

2002

Mayer JF, Jones EL, Lacey D, Gibbons WE, Oehninger S, Muasher SJ: A significant increase in the implantation rate with the asynchronons transfer of cryopreserved cleavage – stage embryos. 58th Annual meeting of the American Society for Reproductive Medicine, 2002

2003

Morshedi M, Bocca S, Oehninger S, Nehchiri F, Muasher SJ,: Assisted conception in serodiscordant couples in whom the man is HIV positive using a strict protocol for semen processing and testing. Accepted for oral presentation at the 59th meeting of the American Society for Reproductive Medicine, 2003

PUBLICATIONS

BOOKS/BOOK CHAPTERS

Muasher SJ, Garcia JE. Pregnancy and its outcome. In: Jones HW Jr, Jones GS, Hodgen GD, Rosenwaks Z, eds: *In Vitro Fertilization - Norfolk*. Baltimore: Williams and Wilkins, 1986, p 238

Rosenwaks Z, Muasher SJ. Recruitment of fertilizable eggs. In: Jones HW Jr, Jones GS, Hodgen GD, Rosenwaks Z, eds: *In Vitro Fertilization - Norfolk*. Baltimore: Williams and Wilkins, 1986, p 30

Jones GS, Muasher SJ, Acosta AA, Rosenwaks Z. The use of GnRH in an *in vitro* fertilization program. In: Bannink HJT, ed.: *Pulsatile GnRH 1985*. Haarlem, The Netherlands: Ferring, 1986, p 199

Acosta AA, Rosenwaks Z, Muasher SJ, Garcia J. *In vitro* fertilization. In: Gold JJ, Josimovich JB, eds: *Gynecol Endocrinol*, 4th ed. NY: Plenum Press, 1987, p 629

Muasher SJ. Infertility. In: Rosenwaks Z, Benjamin F Stone M, eds: *Gynecology: Principles and Practice*. NY: Macmillan, 1987, p 190

Diab K, Muasher S, Simonetti S, Fikry F, Abolouz, Sammour M, Aleem FA. Beta-endorphin in follicular fluid: A possible role in follicle and oocyte maturation and fertilization. In: Genazzani AR, Petraglia F, Volpe A, Faccinetti F, eds. Parthenon Publishing, UK, Vol. 1, 134-45, 1988

Muasher SJ. Evaluation of the female for assisted reproduction. In: Acosta AA, Kruger TF, eds.: *Human Spermatozoa in Assisted Reproduction*. Baltimore: Williams and Wilkins, 1989, p 52

Oehninger S, Scott R, Muasher SJ, Coddington CC, Acosta A, Hodgen GD. Hemizona assay: Assessment

of human spermatozoa dysfunction and its correlation with IVF results. In: *Proceedings from the VI World Congress in IVF and Alternative Assisted Reproduction*. Plenum Press, Jerusalem, Israel, April 2-7, 1989, p 515-523

Oehninger S, Acosta AA, Kreiner D, Muasher SJ, Jones HW Jr, Rosenwaks Z. In vitro fertilization and embryo transfer: An established and successful therapy for endometriosis. *J In Vitro Fertil Embryo Trans* 1988, 5:249. Reprinted in: Mischell DR, Paulsen CA, Lobo RA, eds: *Year Book of Infertility*. Chicago: Year Book Medical Publishers, 1990, p 190

Muasher SJ. Treatment of low responders. In: *Controversies in Assisted Reproduction*. Plenum Publishing, *J Assist Reprod Genet* 10:112-4, 1993

Oehninger S, Mayer J, Muasher S: Impact of different clinical variable on pregnancy outcome following embryo cryopreservation. *Serono Symposia on "Storing Reproduction"*, Bologna, 1999

REFEREED JOURNALS

Muasher SJ, Baramki TA, Diggs ES. Turner phenotype in mother and daughter. *Obstet Gynecol* 56:752, 1980

1984

Muasher SJ, Wilkes C, Garcia JE, Rosenwaks Z, Jones HW Jr. Benefits and risks of multiple transfer with *in vitro* fertilization. *Lancet* 1:570, 1984

Muasher SJ, Garcia JE, Jones HW Jr. Experience with diethylstilbestrol-exposed infertile women in a program of *in vitro* fertilization. *Fertil Steril* 42:20, 1984

Muasher SJ, Acosta A, Garcia JE, Jones GS, Jones HW Jr. Luteal phase serum estradiol and progesterone in *in vitro* fertilization. *Fertil Steril* 41:838, 1984

Muasher SJ, Acosta A, Garcia JE, Rosenwaks Z, Jones HW Jr. Wedge metroplasty for the septate uterus: an update. *Fertil Steril* 42:515, 1984

1985

Garcia JE, Muasher SJ. Approaches to habitual abortion. *Masters Obstet Gynecol* 1:17, 1985

Muasher SJ, Garcia JE, Rosenwaks Z. The combination of follicle stimulating hormone and human menopausal gonadotropin for the induction of multiple follicular maturation for *in vitro* fertilization. *Fertil Steril* 44:62, 1985

Muasher SJ, Rosenwaks Z. Detection of ovulation and testing of the corpus luteum. *Am Assoc Clin Chem* 4:1, 1985

Bernardus RE, Jones GS, Acosta A, Garcia J, Liu H-C, Muasher SJ, Rosenwaks Z, van Uem J, Weinstein F, Jones HW Jr. Stimulation with follicle stimulating hormone/human chorionic gonadotropin in an *in vitro* fertilization program. In: Rolland R, ed.: *Gamete Quality and Fertility Regulation*. Amsterdam: Elsevier, 1985, p 179

1986

Andrews MC, Muasher SJ, Levy DL, Jones HW Jr, Garcia J, Rosenwaks Z, Jones GS, Acosta AA: An analysis of the obstetrical outcome of 125 consecutive pregnancies conceived in *in vitro* resulting in 100 deliveries. *Am J Obstet Gynecol* 154:848, 1986

Acosta AA, Andrews MC, Jones GS, Jones HW Jr, Muasher SJ, Rosenwaks Z: The indications for *in vitro* fertilization. *Va Med* 113:216, 1986

Jones GS, Muasher SJ, Rosenwaks Z, Acosta AA, Liu H-C: The perimenopausal patient in *in vitro* fertilization: The use of gonadotropin-releasing hormone. *Fertil Steril* 46:885, 1986

Rosenwaks Z, Muasher SJ, Acosta AA: The use of HMO and/or FSH for multiple follicle development. *Clin Obstet Gynecol* 29:148, 1986

1987

Boutteville C, Muasher SJ, Jones HW Jr, Rosenwaks Z, Hodgen GD. Results of *in vitro* fertilization attempts in patients with one or two ovaries. *Fertil Steril* 47:821, 1987

Romeu A, Muasher SJ, Acosta AA, Veeck LL, Diaz J, Jones GS, Jones HW Jr, Rosenwaks Z. Results of *in vitro* fertilization attempts in women 40 years of age and older: The Norfolk experience. *Fertil Steril* 47:130, 1987

1988

Liu H-C, Kreiner D, Muasher SJ, Jones G, Jones H Jr, Rosenwaks Z. Beta-human chorionic gonadotropin as a monitor of pregnancy outcome in *in vitro* fertilization-embryo transfer patients. *Fertil Steril* 50:89, 1988

Brzyski RG, Muasher SJ, Droesch K, Simonetti S, Jones GS, Rosenwaks Z. Follicular atresia associated with concurrent initiation of gonadotropin releasing hormone agonist (GnRHa) and follicle stimulating hormone (FSH) for oocyte recruitment. *Fertil Steril* 50:917, 1988

Acosta AA, Moon SY, Oehninger S, Muasher SJ, Rosenwaks Z, Matta JF. Implantation potential of each pre-embryo in multiple pregnancies obtained by *in vitro* fertilization seems to be different. *Fertil Steril* 50:906, 1988

Oehninger S, Acosta AA, Kreiner D, Muasher S, Rosenwaks Z, Jones HW Jr. *In vitro* fertilization and embryo transfer: an established and successful therapy for endometriosis. *J In Vitro Fert Embryo Trans* 5:249, 1988

Kreiner D, Muasher SJ, Acosta AA, Jones GS, Rosenwaks Z. Monitoring gonadotropin-stimulated cycles for *in vitro* fertilization and embryo transfer. *J In Vitro Fert Embryo Trans* 5:230, 1988

Rosenwaks Z, Navot D, Veeck L, Liu H-C, Steingold K, Kreiner D, Droesch K, Stumpf P, Muasher SJ. Oocyte donation: The Norfolk program. *Ann NY Acad Sci* 541:728, 1988

Muasher SJ. Stimulation protocols for patients with "atypical response". *Ann NY Acad Sci* 541:82, 1988

Droesch K, Muasher SJ, Kreiner D, Jones GS, Acosta AA, Rosenwaks Z. Timing of oocyte retrieval in cycles with a spontaneous luteinizing hormone surge in a large *in vitro* fertilization program. *Fertil Steril* 50:451, 1988

Muasher SJ, Oehninger S, Simonetti S, Matta J, Ellis LM, Liu H-C. The value of basal and/or stimulated serum gonadotropin levels in prediction of stimulation response and *in vitro* fertilization outcome. *Fertil Steril* 50:928, 1988

Navot D, Muasher SJ, Oehninger S, Liu H-C, Veeck LL, Kreiner D, Rosenwaks Z. The value of *in vitro*

fertilization for the treatment of unexplained infertility. *Fertil Steril* 49:854, 1988

1989

Flood JT, Muasher SJ, Simonetti S, Kreiner D, Acosta AA, Rosenwaks Z. Comparison between laparoscopically and ultrasonographically guided transvaginal follicular aspiration methods in an *in vitro* fertilization program in the same patients using the same stimulation protocol. *J In Vitro Fertil Embryo Trans* 6:180, 1989

Scott RT, Hofmann GE, Muasher SJ, Acosta AA, Kreiner D, Rosenwaks Z. Correlation of follicular diameter with oocyte recovery and maturity at the time of transvaginal follicular aspiration. *J In Vitro Fert Embryo Trans* 2:73, 1989

Oehninger S, Acosta AA, Veeck LL, Simonetti S, Muasher SJ. Delayed fertilization during *in vitro* fertilization and embryo transfer cycles: Analysis of causes and impact on overall results. *Fertil Steril* 52:991, 1989

Flood JT, Muasher SJ, Simonetti S, Kreiner D, Acosta AA, Rosenwaks Z. Comparison between laparoscopically and ultrasonographically-guided transvaginal follicular aspiration methods in an *in vitro* fertilization program in the same patients using the same stimulation protocol. *J In Vitro Fert Embryo Transf* 6:180-185, 1989

Oehninger S, Scott R, Muasher SJ, Acosta AA, Jones HW Jr., Rosenwaks Z. Effects of the severity of tubo-ovarian disease and previous tubal surgery on the results of *in vitro* fertilization and embryo transfer. *Fertil Steril* 51:126, 1989

Scott RT, Toner JF, Muasher SJ, Oehninger S, Robinson S, Rosenwaks Z. Follicle-stimulating hormone levels on cycle day 3 are predictive of *in vitro* fertilization outcome. *Fertil Steril* 51:651, 1989

Muasher SJ. Freezing techniques and results. *Curr Opin Obstet Gynecol* 1:67, 1989. Jones GS, Muasher SJ, Liu H-C. Gonadotropin stimulation protocols in the Norfolk IVF program - 1988. *J Steroid Biochem* 33:823, 1989

Oehninger S, Scott R, Muasher SJ, Coddington CC, Acosta A, Hodgen GD. Hemizona assay: assessment of human spermatozoa dysfunction and its correlation with IVF results. In: Proceedings from the VIth World Congress in IVF and Alternative Assisted Reproduction. Plenum Press, Jerusalem, Israel, April 2-7, 1989, p 515-523

Hofmann GE, Toner JP, Muasher SJ, Jones GS. High-dose follicle-stimulating hormone (FSH) ovarian stimulation in low-responder patients for *in vitro* fertilization. *J In Vitro Fert Embryo Trans* 6:285, 1989

Brzyski RG, Jones GS, Oehninger S, Acosta AA, Kruithoff CH, Muasher SJ. Impact of leuprolide acetate on the response to follicular stimulation for *in vitro* fertilization in patients with normal basal gonadotropin levels. *J In Vitro Fert Embryo Trans* 6:290, 1989

Oehninger S, Brzyski RG, Muasher SJ, Acosta AA, Jones GS. *In vitro* fertilization and embryo transfer in patients with endometriosis: Impact of a gonadotropin releasing hormone agonist. *Hum Reprod* 4:541, 1989

Hofmann GE, Denis ALC, Scott RT, Muasher SJ. The incidence of transient hyperprolactinemia in gonadotropin-stimulated cycles for *in vitro* fertilization and its effect on pregnancy outcome. *Fertil Steril* 52:622, 1989

Scott RT, Hofmann GE, Muasher SJ, Acosta AA, Kreiner D, Rosenwaks Z. A prospective randomized

comparison of single- and double-lumen needles for transvaginal follicular aspiration. *J In Vitro Fert Embryo Trans* 6:98, 1989

1990

Droesch K, Muasher SJ, Brzyski RG, Jones GS, Simonetti S, Liu H-C, Rosenwaks Z. Value of suppression with a gonadotropin-releasing hormone agonist prior to gonadotropin stimulation for *in vitro* fertilization. *Fertil Steril* 51:292, 1989

Karande VC, Lester RG, Muasher SJ, Acosta AA, Jones HW Jr. Are implantation and pregnancy outcome impaired in diethylstilbestrol (DES)-exposed women after *in vitro* fertilization and embryo transfer? *Fertil Steril* 54:287-291, 1990

Toner JP, Brzyski RG, Oehninger S, Veeck LL, Simonetti S, Muasher SJ. Combined impact of the number of pre-ovulatory oocytes and cryopreservation outcome. *Hum Reprod* 6:284, 1990

Acosta AA, Moon SY, Oehninger S, Muasher SJ, Rosenwaks Z, Matta J. El potencial de implantación de los embriones en los embarazos múltiples obtenidos mediante fertilización *in vitro* parece para cada uno de ellos. *Gine-Dips*, XXI, No. 2:75, February 1990

Scott RT, Hofmann GE, Veeck LL, Jones HW Jr., Muasher SJ. Embryo quality and pregnancy rates in patients attempting pregnancy through *in vitro* fertilization. *Fertil Steril*, 1990

Edelstein MC, Brzyski RG, Jones GS, Simonetti S, Muasher SJ. Equivalency of human menopausal gonadotropin and follicle-stimulating hormone stimulation after gonadotropin-releasing hormone agonist suppression. *Fertil Steril* 53:103, 1990

Oehninger S, Hofmann GE, Kreiner D, Acosta AA, Muasher SJ. Gonadotropin stimulation for *in vitro* fertilization and embryo transfer in insulin-dependent diabetics: Follicular response, oocyte quality, embryo development, and follicular environment. *Fertil Steril* 53:741-43, 1990

Oehninger S, Scott R, Muasher SJ, Coddington CC, Acosta AA, Hodgen GD. Hemizona assay: Assessment of human spermatozoa dysfunction and its correlation with *in vitro* fertilization results. *Advances in Assisted Reproduction Technologies*. Ed. S. Mashiach, Plenum Press, NY 1990, p 515-23

Hofmann GE, Toner JP, Muasher SJ, Jones GS. High-dose follicle stimulating hormone (FSH) ovarian stimulation in low-responder patients for *in vitro* fertilization. *J In Vitro Fert Embryo Trans* 6:285, 1989 (published 1990)

Karande VC, Jones GS, Veeck LL, Muasher SJ. High dose follicle-stimulating hormone stimulation at the onset of the menstrual cycle does not improve the *in vitro* fertilization outcome in low-responder patients. *Fertil Steril* 53:486-489, 1990

Brzyski R, Jones GS, Oehninger S, Acosta AA, Kruihoff CH, Muasher SJ. Impact of leuprolide acetate on the response to follicular stimulation for *in vitro* fertilization in patients with normal basal gonadotropin levels. *J In Vitro Fert Embryo Trans* 6:290, 1989 (published 1990)

Scott RT, Hofmann GE, Oehninger S, Muasher SJ. Intercycle variability of day 3 follicle-stimulating hormone levels and its effect on stimulation quality in *in vitro* fertilization. *Fertil Steril* 54:297-302, 1990

Karande VC, Scott RT, Jones GS, Muasher SJ. Non-functional ovarian cysts do not affect ipsilateral or contralateral ovarian performance during *in vitro* fertilization. *Hum Reprod* 5:431-3, 1990

Edelstein MC, Brzyski RG, Jones GS, Muasher SJ. Ovarian stimulation for *in vitro* fertilization in low-responder patients using pulsatile intravenous follicle stimulating hormone. *J In Vitro Fertil Trans* 7:275-9, 1990

Edelstein MC, Brzyski RG, Jones GS, Oehninger S, Sieg SM, Muasher SJ. Ovarian stimulation for *in vitro* fertilization using pure follicle-stimulating hormone agonist in high-responder patients. *J In Vitro Fertil Embryo Trans* 7:172-6, 1990

Acosta AA, Moon SY, Oehninger S, Muasher SJ, Rosenwaks Z. El potencial de implantacion de los pre-embryones en los embarazos multiples obtenidos mediante fertilizacion *in vitro* parece diferente para cada uno de ellos. *GINE* 21:75-88, 1990

Acosta AA, Oehninger S, Muasher SJ, Hammer J, Liang H, Jones D. Preclinical abortions: Incidence and significance in the Norfolk *in vitro* fertilization program. *Fertil Steril* 53:673-6, 1990

Beebe SJ, Morsy M, Takeuchi K, Veeck LL, Muasher SJ, Hodgen GD. Pre-embryo genetic diagnosis. *Clin Consult Obstet Gynecol*, 2:205-13, 1990

Edelstein MC, Kruihoff C, Brothman L, Veeck L, Alexander NJ, Muasher SJ. The prevalence of human immunodeficiency virus in patients and their spouses entering a large *in vitro* fertilization program. *J In Vitro Fertil Embryo Trans* 7:254-6, 1990

Edelstein MC, Seltman HJ, Cox BJ, Robinson SM, Shaw RA, Muasher SJ. Progesterone levels on the day of human chorionic gonadotropin administration in cycles with gonadotropin-releasing hormone agonist suppression are not predictive of pregnancy outcome. *Fertil Steril* 54:853-7, 1990

Oehninger S, Muasher SJ, Kreiner D, Acosta AA, Jones GS. Successful ovulation induction, oocyte *in vitro* maturation and fertilization, and early embryo development in insulin-dependent diabetes mellitus. *Fertil Steril* 53:741, 1990

Beck P, Silverman M, Oehninger S, Muasher SJ, Acosta AA, Rosenwaks Z. Survival of the cornual pregnancy in a heterotopic gestation after *in vitro* fertilization and embryo transfer. *Fertil Steril* 53:732-4, 1990

1991

Brzyski R, Jones GS, Jones HW Jr., Oehninger O, Muasher SJ. Alterations in luteal phase progesterone and estradiol production following pituitary suppression with leuprolide acetate prior to follicular stimulation for *in vitro* fertilization. *Fertil Steril* 55:119-24, 1991

Karande VC, Flood JT, Heard N, Veeck L, Muasher SJ. Analysis of ectopic pregnancies resulting from *in vitro* fertilization and embryo transfer. *Hum Reprod*, 6:446-9, 1991

Toner JP, Philput C, Jones GS, Muasher SJ. Basal follicle stimulating hormone level is a better predictor of *in vitro* fertilization performance than age. *Fertil Steril* 55:784-91, 1991

Toner JP, Brzyski RG, Oehninger S, Veeck LL, Simonetti S, Muasher SJ. Combined impact of the number of preovulatory oocytes and cryopreservation on IVF outcome. *Hum Reprod* 6:284-9, 1991

Muasher SJ, Kruihoff C, Simonetti S, Oehninger S, Acosta AA, Jones GS. Controlled preparation of the endometrium with exogenous steroids for the transfer of frozen-thawed pre-embryos in patients with

anovulatory or irregular cycles. *Hum Reprod* 6:443-5, 1991

Toner JP, Hassiakos DK, Muasher SJ, Hsiu JG, Jones HW Jr. Endometrial receptivities after leuprolide suppression and gonadotropin stimulation: Histology, steroid receptor concentrations, and implantation rates. *Ann NY Acad Sci* 622:220-9, 1991

Toth TL, Veeck L, Muasher SJ, Jones GS, Jones HW Jr. Factors affecting improved term pregnancy rates: the role of individualization. Parthenon Publishers, *World Congress IVF and Assisted Procreation*, Paris, France, June 1991 (not published)

Winslow KL, Toner JP, Brzyski RG, Oehninger SC, Acosta AA, Muasher SJ. The gonadotropin-releasing hormone agonist stimulation test - a sensitive predictor of performance in the flare-up *in vitro* fertilization cycle. *Fertil Steril* 56:711-7, 1991

Hassiakos D, Toner JP, Muasher SJ, Jones HW Jr. Implantation and pregnancy rates in relation to estradiol and progesterone profiles in cycles with and without the use of gonadotropin-releasing hormone agonist suppression. *Hum Reprod* 5:1004-8, 1991

Hassiakos DK, Muasher SJ, Veeck LL, Jones HW Jr. *In vitro* fertilization: Effective alternative to surgery for distal tubal occlusion. *Va Med Q*, 118:26-30, 1991

Seoud MA-F, Kruithoff C, Muasher SJ. Outcome of triplet and quadruplet pregnancies resulting from *in vitro* fertilization. *Europ J Obstet Gynecol Reprod Biol*, 41:79-84, 1991

Toner JP, Veeck LL, Acosta AA, Muasher SJ. Predictive value of pregnancy during original *in vitro* fertilization cycle on implantation and pregnancy in subsequent cryo-thaw cycles. *Fertil Steril* 56:505-8, 1991

Oehninger S, Acosta AA, Veeck LL, Brzyski R, Kruger TF, Muasher SJ, Hodgen GD. Recurrent failure of *in vitro* fertilization: Role of the hemizona assay in the sequential diagnosis of specific sperm-oocyte defects. *Am J Obstet Gynecol*, 164:1210-5, 1991

Ueno J, Oehninger S, Brzyski RG, Acosta AA, Philput CB, Muasher SJ. Ultrasonographic appearance of the endometrium in natural and stimulated *in vitro* fertilization cycles and its correlation with outcome. *Hum Reprod*, 6:901-4, 1991

1992

Brzyski RG, Jones GS, Jones HW Jr., Oehninger S, Muasher SJ. Alterations in luteal phase progesterone and estradiol production following leuprolide acetate treatment prior to follicular stimulation for *in vitro* fertilization. *Fertility Digest* 2:22, 1992

Seoud M A-F, Patterson R, Muasher SJ, Coddington CC, Effects of myomas or prior myomectomy on IVF performance. *J In Vitro Fertil Embryo Trans*, 9:217-21, 1992

Toth TL, Oehninger S, Toner JP, Brzyski RG, Acosta AA, Muasher SJ. Embryo transfer to the uterus or the fallopian tube following *in vitro* fertilization yields similar results. *Fertil Steril*, 57:1110-3, 1992

Irianni FM, Veeck LL, Toner JP, Muasher SJ. Influence of number of preembryos transferred, progesterone value and estradiol/progesterone ratio at thaw on pregnancy results during placement of cryopreserved preembryos in natural cycles. *Hum Reprod* 7:797-800, 1992

Muasher SJ: An introduction to Assisted Reproductive Technologies. *Resolve of Virginia*, pp 1,4-6, June,

1992

Seoud M A-F, Toner JP, Kruithoff C, Muasher SJ. Outcome of twin, triplet and quadruplet *in vitro* fertilization pregnancies: The Norfolk Experience. *Fertil Steril*, 57:815-34, 1992

Oehninger S, Toner JP, Veeck LL, Brzyski RG, Acosta AA, Muasher SJ. Performance of cryopreserved pre-embryos obtained in IVF cycles with or without a gonadotropin-releasing hormone agonist (GnRH_a). *Fertil Steril*, 57:620-5, 1992

Oehninger S, Toner J, Muasher SJ, Coddington C, Acosta AA, Hodgen GD. Prediction of fertilization *in vitro* with human gametes: Is there a litmus test? *Am J Obstet Gynecol* 167:1760-7, 1992

Khalifa E, Toner JP, Muasher SJ, Acosta AA. Significance of basal (day 3) follicle stimulating hormone levels in women with one ovary in a program of *in vitro* fertilization. *Fertil Steril* 57:835-9, 1992

Khalifa E, Brzyski RG, Oehninger S, Acosta AA, Muasher SJ: Sonographic appearance of the endometrium: the predictive value for *in vitro* fertilization outcome in stimulated cycles. *Hum Reprod*, 7:677-80, 1992. Abstracted in 1994 Year Book

Jones HW Jr, Muasher SJ, Nusbaum R. A step toward solving some of the problems of cryopreservation. *Fertil Steril* 57:278-84, 1992

Khalifa E, Oehninger S, Acosta AA, Morshedi M, Veeck L, Brzyski RG, Muasher SJ. Successful fertilization and pregnancy outcome in *in vitro* fertilization using cryopreserved/thawed spermatozoa from patients with malignant diseases. *Hum Reprod* 7:105-8, 1992

Muasher SJ. The use of gonadotropin-releasing hormone agonists in controlled ovarian hyperstimulation for *in vitro* fertilization. *Clin Therapeutics* 14(SA):74-86, 1992

1993

Toner JP, Veeck LL, Muasher SJ: Basal follicle-stimulating hormone level and age affect the chance for and outcome of preembryo cryopreservation. *Fertil Steril*, 59:664-7, 1993

Jones HW Jr, Veeck LL, Muasher SJ, Gibbons WE. On reporting pregnancies by ART. *Fertil Steril*, Editor's Corner, 60:759-61, 1993

Veeck LL, Amundson CH, Brothman LJ, DeScisciolo C, Maloney MK, Muasher SJ, Jones HW: Significantly enhanced pregnancy rates per cycle through cryopreservation and thaw of pronuclear stage oocytes. *Fertil Steril* 59:1202-7, 1993

1994

Sims JA, Seltman HJ, Muasher SJ. Early follicular rise of serum progesterone concentration in response to a flare-up effect of gonadotrophin-releasing hormone agonist impairs follicular recruitment for *in vitro* fertilization. *Hum Reprod* 9:235-40, 1994

Khalifa E, Brzyski RG, Oehninger S, Acosta AA, Muasher SJ. Sonographic appearance of the endometrium: The predictive value for *in vitro* fertilization outcome in stimulated cycles. *Hum Reprod* 7:677-80, 1992, Abstracted, Year Book, 1994

Queenan JT Jr, Muasher SJ. Is progesterone rise in the follicular phase detrimental to pregnancy outcome in ART? *Assist Reprod Rev* 4:16-21, 1994

Sims JA, Seltman HJ, Muasher SJ. Early follicular serum progesterone levels in response to a flare-up effect of gonadotropin-releasing hormone agonist impairs follicular recruitment for *in vitro* fertilization. *Hum Reprod* 9:235-40, 1994

Toth TL, Baka SG, Veeck LL, Jones HW, Muasher SJ, Lanzendorf SE. Fertilization and *in vitro* development of cryopreserved human prophase I oocytes. *Fertil Steril* 61:891-94, 1994

Kassabji M, Sims JA, Butler L, Muasher SJ. Reduced pregnancy outcome in patients with a unilateral and bilateral hydrosalpinx after *in vitro* fertilization. *Eur J Obstet Gynecol Reprod Biol* 56:129-32, 1994

Oehninger S, Blackmore P, Morshedi M, Sueldo C, Acosta AA, Alexander NJ. Defective calcium influx and acrosome reaction (spontaneous and progesterone-induced) in spermatozoa of infertile men with severe teratozoospermia. *Fertil Steril* 61:349-54, 1994

Queenan JT Jr, Veeck LL, Seltman HJ, Muasher SJ. Transfer of cryopreserved-thawed preembryos in a natural cycle or a programmed cycle with exogenous hormonal replacement yield similar pregnancy results. *Fertil Steril* 62:545-50, 1994

Grow DR, Oehninger S, Seltman HJ, Toner JP, Kruger TF, Muasher SJ. Sperm morphology as diagnosed by strict criteria: Probing the impact on teratozoospermia on fertilization rate and pregnancy outcome in a large IVF population. *Fertil Steril* 62:559-67, 1994

1995

Queenan JT, Veeck LL, Muasher SJ. Clinical and laboratory aspects of cryopreservation. *Sem Reprod Endocrinol* 13:64-71, 1995

Baka SG, Toth TL, Veeck LL, Jones HW Jr, Muasher SJ, Lanzendorf SE. Evaluation of the spindle apparatus of *in vitro* matured human oocytes following cryopreservation. *Hum Reprod* 10:1816-20, 1995

Toth TL, Veeck L, Muasher SJ, Jones GS, Jones HW Jr. Factors affecting term pregnancy rates: The role of individualization in ovarian stimulation for *in vitro* fertilization. *J Reprod Med* 1995

Simon T, Oehninger S, Toner J, Jones D, Muasher S. High doses of gonadotropins have no detrimental effect on *in vitro* fertilization outcome in normal responders. *Fertil Steril* 63:133-36, 1995

Oehninger S, Veeck L, Lanzendorf S, Maloney M, Toner J, Muasher SJ. Intracytoplasmic sperm injection (ICSI): Achievement of high pregnancy rates in couples with severe male factor infertility is dependent upon female and not male factor. *Fertil Steril* 64:977-81, 1995

Moffitt D, Queenan JT, Veeck LL, Schoolcraft W, Miller CE, Muasher SJ. Low dose glucocorticoids after *in vitro* fertilization and embryo transfer have no significant effect on pregnancy rates. *Fertil Steril* 63:571-7, 1995

Toner JP, Mossad H, Grow D, Morshedi M, Swanson RJ, Oehninger S. Value of sperm morphology assessed by strict criteria for prediction of the outcome of artificial (intrauterine) insemination. *Andrologia* 27:143-8, 1995

Jones HW Jr, Veeck LL, Muasher SJ. Cryopreservation: The problem of evaluation. *Hum Reprod* 10:2136-8, 1995

1996

- Svendsen T, Jones D, Butler L, Muasher SJ. The incidence of multiple gestations after *in vitro* fertilization (IVF) is dependent upon the number of embryos transferred and maternal age. *Fertil Steril* 65:561-5, 1996
- Shelton KE, Butler L, Toner JP, Oehninger S, Muasher SJ. Salpingectomy improves the pregnancy rate in in-vitro fertilization patients with hydrosalpinx. *Hum Reprod* 11:523-5, 1996
- Oehninger S, Kruger T, Simon T, Jones D, Mayer J, Lanzendorf S, Toner J, Muasher SJ. A comparative analysis of embryo implantation potential in patients with severe teratozoospermia undergoing high insemination concentration IVF or ICSI. *Hum Reprod* 11:1086-89, 1996
- Toth TL, Awwad JT, Veeck LL, Jones HW Jr, Muasher SJ. The use of the suppression and flare regimens of gonadotropin-releasing hormone agonist in women with different basal gonadotropin values in an *in vitro* fertilization program. *J Reprod Med* 41:321-6, 1996

1997

- Oehninger S, Muasher SJ, Bevan HE. On basic clinical research within the human assisted reproduction setting. *J Assist Reprod Genet* 1997;14:69-72
- Poe-Zeigler R, Nehchiri F, Hamacher P, Boyd C, Oehninger S, Muasher S, Lanzendorf S. Effects of sperm viability on fertilization and embryo cleavage following intracytoplasmic sperm injection. *J Assist Reprod Genet* 1997;14:277-81
- Moffitt DV, Queenan JT Jr, Shaw BS, Muasher SJ. Progesterone levels on the day of human chorionic gonadotropin do not predict pregnancy outcome from the transfer of fresh or cryopreserved embryos from the same cohort. *Fertil Steril* 1997;67:296-301
- Queenan JT Jr, Veeck L, Toner J, Oehninger S, Muasher S. Cryopreservation of all zygotes in patients at risk for severe hyperstimulation does not eliminate the syndrome, but the chances of pregnancy are excellent with subsequent cryo-thaw cycles. *Human Reprod*, 1997;12:1573-6
- Queenan JT Jr, Ramey J, Seltman H, Eure L, Veeck L, Muasher S. Transfer of cryopreserved-thawed pre-embryos in a cycle using exogenous steroids without prior GnRH-agonist suppression yields favorable pregnancy results. *Human Reprod*, 1997;12:1176-80
- Mercan R, Mayer J, Walker, D, Jones S, Oehninger S, Toner J, Muasher S. Improved oocyte quality is obtained with follicle stimulating hormone alone than with follicle stimulating hormone/human menopausal gonadotrophin combination. *Human Reprod*. 1997, 12:9/1886-1889
- Denis A, Guido M, Adler R, Bergh P, Brenner C, Scott R. Antiphospholipid antibodies and pregnancy rates and outcome in in vitro fertilization patients. *Fertil Steril* 1997 67:9/1084-1090

Faber B, Mercan R, Hamacher P, Muasher S, Toner J. The impact of an egg donor's age and her prior fertility on recipient pregnancy outcome. *Fertil Steril* 1997, 68:2/370-372

1998

- Nackley A, Muasher S. The significance of hydrosalpinx in in vitro fertilization. *Fertil Steril* 1998, 69:3/373-384
- Faber B, Mayer J, Cox B, Jones D, Toner J, Oehninger S, Muasher S. Cessation of gonadotropin-releasing hormone agonist therapy combined with high-dose gonadotropin stimulation yields favorable pregnancy results in low responders. *Fertil Steril* 1998 69:5/826-830

Lanzendorf S, Nehchiri F, Mayer J, Oehninger S, Muasher S. A prospective, randomized, double-blind study for the evaluation of assisted hatching in patients with advanced maternal age. *Human Reprod* 1998, 13:2/409-413

Ming-I H, Kolm P, Leete J, Dong K, Muasher S, Oehninger S. Analysis of implantation in assisted reproduction through the use of serial human chorionic gonadotropin measurements. *J Assist Reprod Genetics* 1998, 15:8/495-502

Mercan R, Lanzendorf SE, Mayer J, Nassar A, Muasher S, Oehninger S. The outcome of clinical pregnancies following intracytoplasmic sperm injection is not affected by semen quality. *Andrologia* 1998, 30:91-95

Mercan R, Oehninger S, Muasher SJ, Toner JP, Mayer J, Lanzendorf SE. Impact of fertilization history and semen parameters on ICSI outcome. *J Asst Reprod Genet* 1998, 15:43-49

Hsu M-I, Kolm P, Leete J, Dong K-W, Muasher S, Oehninger S. Analysis of implantation in assisted reproduction through the use of serial human chorionic gonadotropin (hCG) measurements. *J Asst Reprod Genet* 1998, 15:495-502

Oehninger S, Chaturvedi S, Toner J, Morshedi M, Mayer J, Lanzendorf S, Muasher S. Semen quality: is there a paternal effect on pregnancy outcome in IVF/ICSI? *Hum Reprod* 1998, 13:2161-64

Develioglu OH, Cox B, Toner JP, Oehninger S, Muasher SJ. The value of basal serum follicle stimulating hormone, luteinizing hormone and oestradiol concentrations following pituitary down-regulation in predicting ovarian response to stimulation with highly purified follicle stimulating hormone. *Hum Reprod* 1998, 14:1168-1174

1999

Oehninger S, Barroso G, Jones D, Muasher SJ Recombinant and urinary FSH preparations: a comparative analysis of multifollicular development and IVF/ICSI outcome in different categories of ovarian responders. *Mid East Fertil Soc J* 1999, 4:2/1-9

Barroso G, Oehninger S, Kolm P, Jones D, Muasher SJ. High FSH:LH ratio and low LH levels in basal cycle day 3: impact on follicular development and IVF outcome. Submitted 7/24/99 to *Journal of Assisted Reproduction and Genetics* (Resubmitted 12/2000)

Lanzendorf S, Toner J, Oehninger S, Mayer JF, Muasher S. Pregnancy following transfer of ooplasm from cryopreserved-thawed donor oocytes into recipient oocytes. *Fertil Steril* 1999, 71:575-77

Hsu M-I, Mayer JF, Aronshon M, Lanzendorf S, Muasher S, Oehninger S. Embryo implantation in IVF and ICSI: impact of the number of embryos transferred, morphology grade, and cleavage status. *Fertil Steril* 1999, 72:679-685

2000

Descisciolo C, Wright, DL, Mayer, JF, Gibbons WE, Muasher SJ, Lanzendorf SE: Fluorescence in situ Hybridization Analysis of Human Embryos Derived from in Vitro and in Vivo Matured Oocytes. *J Asst Rep Genetics* 2000, 17:5/284-292

Schnorr JA, Muasher SJ, Jones HJ. Evaluation of the Clinical Efficacy of Embryo Cryopreservation, *Molecular and Cellular Endo* 2000, 169:85-89

Schnorr JA, Muasher SJ, Jones HW. The Impact of a Cryopreservation Program Upon the Multiple Pregnancy Rate Associated with Assisted Reproductive Technologies. Submitted to *Fertil and Steril*, June 2000

Hsu M-I, Barroso G, Mayer J, Lanzendorf S, Gibbons WE, Muasher S, Oehninger S. Is the timing of implantation affected by zona pellucida micromanipulation? *J Asst Rep Genetics* 2000, 17:34-38

Oehninger S, Mayer J, Muasher S. Impact of different clinical variables on pregnancy outcome following embryo cryopreservation. *Mol Cell Endocrinol* (in press, 2000)

Monzó A, Kondylis F, Lynch D, Mayer J, Jones E, Nehchiri F, Morshedi M, Muasher S, Gibbons W, Oehninger S. Outcome of ICSI in azoospermic patients: stressing the liaison between the urologist and reproductive medicine. *Urology* (submitted)

Williams SC, Muasher SJ. Minimal ovarian hyperstimulation for in vitro fertilization using sequential clomiphene citrate and gonadotropin: decreasing the cost of assisted reproduction. *Fertil Steril* (submitted 2000)

2001

Schnorr JA, Muasher SJ, Jones HW. The impact of a cryopreservation program upon the multiple pregnancy rate associated with assisted reproductive technologies. *Fertil Steril*, Vol 75, No. 1, Jan 2001

Schnorr JA, Brown SE, Oehninger SO, Mayer JF, Muasher SJ, Lanzendorf SL. Impact of intracytoplasmic sperm injection on embryo survival and clinical outcome. *Fertil Steril*, Vol 75, No. 3, March 2001

Saffan DS, Wright D, Nehchiri F, Mayer J, Muasher S, Lanzendorf S. The effect of oocyte nuclear maturation on intracytoplasmic sperm injection outcome. *Hum Reprod* (in review, 2001)

Wright D, Jones E, Mayer J, Muasher S, Oehninger S, Lanzendorf S. Telomerase activity in biopsied blastomeres of human day three embryos. *Mol Hum Reprod* (in review, 2001)

Williams SC, Oehninger S, Gibbons WE, Van Cleave WC, Donahue J, Muasher SJ. Delaying the initiation of progesterone supplementation results in decreased pregnancy rates following in vitro fertilization: a randomized, prospective study. *Fertil Steril*(submitted 2001)

Lanzendorf S, Boyd C, Wright D, Muasher S, Oehninger S, Hodgen G. The use of human gametes obtained from anonymous donors for the production of human embryonic stem cell lines. *Fertil Steril*, Vol. 76, No. 1, July 2001.

Barroso G, Oehninger S, Monzo A, Kolm P, Gibbons W, Muasher S: High FSH: LH Ratio and Low LH levels in Basal cycle day 3: Impact on follicular development and IVF outcome. *Journal of Assisted Reproduction and Genetics*, vol. 18, no 9, 2001

Lanzendorf S, Boyd C, Wright D, Muasher S, Oehninger S, Hodgen G: Use of human gametes obtained from anonymous donors for the production of human embryonic stem cell lines. *Fertil Steril* 2001; 76: 132-7

Muasher S, Gibbons W: IVF: Miracles Made and in the Making. *OBG Management*, Guest Editorial, Dec 2001

Williams S, Oehninger S, Gibbons W, Van Cleave W, Muasher S: Delaying the initiation of progesterone supplementation results in decreased pregnancy rates after in vitro fertilization: a randomized, prospective study. *Fertil Steril* 2001; 76: 1140-3

Strandell A, Muasher S, Sharara F: Hydrosalpinx and IVF: The role of surgical treatment. *Middle East Fertility Society Journal* 2001; 6 (2): 108-115

2002

Williams SC, Gibbons WE, Muasher SJ, Oehninger S: Minimal ovarian hyperstimulation for in-vitro fertilization using sequential Clomiphene citrate and gonadotropin with or without the addition of a gonadotropin-releasing hormone antagonist. *Fertil Steril* 2002; 78:1068-1072

2004

Marrs R, Meldrum D, Muasher S, Schoolcraft W, Werlin L, Kelly E: Does the addition of LH have a benefit for patients of advanced reproductive age undergoing ART? A randomized comparative trial of recombinant human FSH (Gonal -F) alone or in combination with recombinant human LH from day 6 of treatment. *Repro Biomed Online*. 2004 Feb; 8(2):175-82

2006

Lipari CW, Muasher SJ. Is it of value to treat endometriosis prior to IVF? *Middle East Fertility Society Journal* 2006; 11 (1): 24-34

Abdallah RT, Muasher SJ. Surviving cancer, saving fertility: The promise of cryopreservation. *Sexuality, Reproduction, and Menopause* 2006; 4 (1): 7-12

Muasher SJ, Hubayter ZR. Optimal stimulation protocols for in-vitro fertilization. *Fertil Steril* 2006; 86: 267-73

2007

Sarhan A, Muasher SJ. Surgical complications from in-vitro fertilization, *Middle East Fertility Society Journal* 2007; 12 (1): 1-8

Hubayter Z, Muasher SJ. Ectopic and Heterotopic Pregnancies from In-Vitro Fertilization. Textbook chapter, *Textbook of Infertility and Assisted Reproduction*. Cambridge University Press, to be published 2007

2008

Hubayter ZR, Muasher SJ. Luteal supplementation in in vitro fertilization: more questions than answers. *Fertil Steril* 2008;89:759-58.

Hubayter ZR, Muasher SJ. Choices of stimulation for low responders in IVF. *Expert Rev. Obstet. Gynecol.*3(4), (2008).