

CURRICULUM VITAE

NAME: J. David Winger, Ph.D., HCLD

CURRENT TITLE: Director,
Premier Fertility Center Laboratories

ADDRESS:

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PERSONAL INFORMATION:

Birthdate: July 7, 1963

Birthplace: Bristol, Tennessee

Marital Status: Married

EDUCATION:

1981-1985 East Tennessee State University
Johnson City, Tennessee
B.S.
Biology (major), Psychology (minor)

1986-1988 University of Tennessee
Knoxville, Tennessee
M.S.
Biotechnology

EDUCATION: (Continued)

1988-1990 University of Tennessee
Knoxville, Tennessee
Ph.D.
Zoology

BOARD CERTIFICATION:

November 1994 American Association of Bioanalysis
HCLD (High Complexity Clinical Laboratory Director)
ELD (Embryology Laboratory Director)

EMPLOYMENT:

2007-present Director, Premier Fertility Center Laboratories

2005-present Associate
Institute of Regenerative Medicine
Wake Forest University School of Medicine
Winston-Salem, North Carolina

2003-2007 Assistant Professor
Lab Director, Center for Reproductive Medicine
Department of Obstetrics and Gynecology
Wake Forest University School of Medicine
Winston-Salem, North Carolina

1998-2003 Scientific Director
Reproductive Biology Associates
Atlanta, Georgia

1993-1998 IVF Laboratory/IVF Director
Toll Center for Reproductive Sciences
Abington Memorial Hospital
Abington, Pennsylvania

1990-1993 Director
Fertility Laboratory Services
Center for Reproductive Medicine
Charlotte, North Carolina

1988-1990 Assistant Lab Director
Fertility Center of East Tennessee
Knoxville, Tennessee

1986-1988 Lab Technician
Fertility Center of East Tennessee
Knoxville, Tennessee

EMPLOYMENT: (Continued)

1986-1990 Teaching Assistant
Department of Zoology
University of Tennessee
Knoxville, Tennessee

OTHER ACADEMIC APPOINTMENTS:

1997-1998	Adjunct Research Associate Department of Biology University of Pennsylvania Philadelphia, Pennsylvania
1994-1998	Adjunct Instructor Department of Obstetrics and Gynecology and Reproductive Sciences Temple University School of Medicine Philadelphia, Pennsylvania

SOCIETY MEMBERSHIPS:

American Society for Reproductive Medicine
American Association of Bioanalysts
American Association of Tissue Banks

RESEARCH INTERESTS:

Embryonic stem-cells; parthenogenesis; Oocyte/Ovarian tissue cryopreservation;
air-quality issues in the IVF lab.

BIBLIOGRAPHY:

Journal Articles:

Winger JD, Gaunt GL. The endocrinology laboratory in a program of assisted reproductive technology: the value of preovulatory measurement of serum progesterone. Assist Reprod Rev 1992; 2:198-204.

Toledo AA, Wright G, Jones A, Smith S, Johnson-Ward J, Brockman W, Ng F, Winger JD. Blastocyst transfer: a useful tool for reduction of high-order multiple gestations in a human assisted reproduction program. Am J Obstet Gynecol 2000; 183:377-382.

Winger JD, Kort HI. Cryopreservation of immature and mature human oocytes. Semin Reprod Med 2002; 20(1):45-49.

BIBLIOGRAPHY: (Continued)

Journal Articles:

Roudebush WE, Winger JD, Jones AE, Wright G, Toledo AA, Kort HI, Massey JB, Shapiro DB. Embryonic platelet-activating factor: an indicator of embryo viability. Human Reprod 2002; 17(5):1306-1310.

Lin H, Lei JQ, Winger D, Nguyen M-T, Khanna R, Hartmann C, Yan W-L, Huang S. Multilineage potential of homozygous stem cells derived from metaphase II oocytes. Stem Cells 2003; 21:152-161.

Bosch P, Hernandez-Fonseca HJ, Miller DM, Winger JD, Massey JB, Lamb SV, Brackett BG. Development of antral follicles in cryopreserved cat ovarian tissue transplanted to immunodeficient mice. *Theriogenology* 2004; 61:581-594.

Abstracts:

Winger JD, Jones AE, Wright G, Smith SE, Brockman WW, Johnson-Ward J, Massey JB. The predictive value of day 3 embryo stage on blastocyst formation. *Fertil Steril* 1999; 72(3)(Suppl 1):S96.

Smith SE, Richard JR, Brockman WW, Winger JD, Witt MA. Density gradient centrifugation and cryopreservation of spermatozoa obtained by microepididymal sperm aspiration (MESA). *Fertil Steril* 1999; 72(3)(Suppl 1):S164.

Smith SE, Richard JR, Brockman WW, Winger JD, Witt MA. A comparison of fresh versus cryopreserved epididymal spermatozoa obtained by microepididymal sperm aspiration (MESA). *Fertil Steril* 1999; 72(3)(Suppl 1):S164.

Winger JD, Jones AE, Wright G, Smith SE, Brockman WW, Johnson-Ward J, Massey JB. The efficacy of blastocyst culture in a high volume IVF center. *Fertil Steril* 1999; 72(3)(Suppl 1):S225.

Winger JD, Jones AE, Wright G, Smith SE, Brockman WW, Johnson-Ward J, Toledo AA. Similar pregnancy and implantation rates with day 3 and day 5 transfers. *Fertil Steril* 2000; 74(3)(Suppl 1):S226.

Roudebush WE, Winger JD, Toledo AA, Massey JB, Kort HI, Kaufmann R. Embryo viability assessment: the amount of platelet-activating factor produced by human embryos is related to pregnancy outcome. *Fertil Steril* 2001; 76(3)(Suppl 1):S88.

Hernandez-Fonseca HJ, Bosch P, Sirisathien S, Winger JD, Massey JB, Brackett BG. Time course of follicular development after bovine ovarian tissue transplantation in NOD SKID mice. *Fertil Steril* 2001; 76(3)(Suppl 1):S34-S35.

Hernandez-Fonseca HJ, Bosch P, Winger JD, Massey JB, Cho H, Brackett BG. Recovery of oocytes from bovine ovarian tissue transplanted to NOD SKID mice. *Fertil Steril* 2001; 76(3)(Suppl 1):S56.

Shapiro D, Carter M, Mitchell-Leef D, Winger D. Plateau or drop in estradiol (E2) on the day after initiation of the GnRH antagonist Antagon in IVF treatment cycles does not affect pregnancy outcome. *Fertil Steril* 2002; 78(3)(Suppl 1):S22-S23.

BIBLIOGRAPHY: (Continued)

Abstracts:

Winger JD, Huang S, Massey JB, Lei J, Lin H. Assessment of parthenogenic activation of human metaphase II oocytes for stem cell derivation. *Fertil Steril* 2002; 78(3)(Suppl 1):S76-S77.

Shapiro D, Toledo A, Carter M, Winger D, Wright G. Use of the GnRH antagonist Antagon for poor prognosis IVF population results in low pregnancy and implantation rates. *Fertil Steril* 2002; 78(3)(Suppl 1):S137.

Shapiro DB, Winger JD, Fisher AM, Combs BF, Durrance MH, Roudebush WE. Determination of progesterone levels on day of hCG will predict IVF pregnancy outcomes. Fertil Steril 2002; 78(3)(Suppl 1):S145.

Jones AE, Wright GW, Davidson-Garcia CA, Toledo AA, Mitchell-Leef D, Winger JD. Blastocyst Transfer after preimplantation genetic diagnosis. Fertil Steril 2002; 78(3)(Suppl 1):S183-S184.

Mitchell-Leef D, Toledo AA, Jacobs CA, Keenan DL, Winger JD, Roudebush WE. Predictability of the sperm penetration assay in relationship to conventional IVF-ET pregnancy rates. Fertil Steril 2002; 78(3)(Suppl 1):S247.

TEACHING PORTFOLIO

LECTURES AND ORAL PRESENTATIONS:

"Preimplantation genetic diagnosis for detection of aneuploidy and single gene defects." Southeast Regional Genetics Meeting (hosted by WFU Genetics), Winston-Salem, North Carolina, August 22-23, 2003.

"Advanced micromanipulation techniques." Twenty-Seventh Annual Frank R. Lock Obstetrics and Gynecology Symposium, Winston-Salem, North Carolina, October 10, 2003.

"In vitro fertilization: clinical and research applications." MD/PhD Student Association, Winston-Salem, North Carolina, January 22, 2004.

"Pre-implantation genetics." Genetics, Biotechnology and the Future Conference, Winston-Salem, North Carolina, January 24, 2004.

"In vitro fertilization: clinical and research applications." Wake Forest Institute for Regenerative Medicine, Winston-Salem, North Carolina, February 11, 2004.

"Advances in IVF Laboratory Techniques." Catawba Memorial Hospital, Hickory, North Carolina, October 7, 2003.

"Innovations in preimplantation genetic diagnosis." North Carolina Obstetrical and Gynecological Society Annual Meeting. Asheville, North Carolina, May 6-8, 2005.