

BRYAN T. KLOOS, Ph.D, HCLD (ABB)

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1 Trout Brook Lane
Weston, CT 06883
(917) 656-0259

**PROFESSIONAL
EXPERIENCE:**

Director of Clinical Laboratories
Conceive NJ
Wall Township, NJ
June 2022 to Present

IVF and Andrology Laboratory Director
Park Avenue Fertility and Reproductive Medicine (PAFRM)
Trumbull, CT
March 2013 to Present

Clinical Laboratory Director
Androvia LifeSciences
Mountainside, NJ
February 2017 to Present

IVF and Andrology Laboratory Director
Hudson Valley Fertility, PLLC
Fishkill, NY
November 2020 to Present

President
ART Laboratory Logistics
Weston, CT
April 2014 to Present

IVF Laboratory and Tissue Bank Director
Global Fertility & Genetics
New York, NY
October 2016 to March 2019

Embryology and Andrology Supervisor
Fertility Centers of New England (FCNE)
Reading, MA
August 2007 – March, 2013

**PROFESSIONAL
SERVICES:**

On-Site and Off-Site Clinical Laboratory Management and Direction
Tissue Bank Compliance and Direction
FDA HCT/P Compliance
CLIA Certification and Compliance
CAP Accreditation and Compliance
New York State Physician Office Laboratory (POLEP) Licensure
NYS Clinical Laboratory Evaluation Program (CLEP) Licensure
Laboratory Quality Control
Laboratory Quality Assurance and Quality Management
Laboratory KPI Database Generation and Maintenance
Cryo-Inventory Database Generation and Maintenance
SART Reporting and Compliance
Proficiency Testing
IVF Laboratory Design and Implementation
ART Personnel Recruiting
Personnel Training and Competency Evaluation
Laboratory Consultancy for KPI Improvement
Per Diem Embryology Services

SKILLS: *Proficient in All Aspects of the ART/Andrology Laboratory Including:*

- Design and Build-Out of ART Laboratories and Systems
- Design and Maintenance of Laboratory Equipment Including Embryo Culture Incubators, Video Microscopy Applications, PC Systems, Cryo Systems, Compressed Gas Delivery Systems, Environmental Control Systems and telemetric monitoring systems
- Embryo Culture (Low Oxygen Culture, Benchtop Incubation, Time-Lapse Video Microscopy)
- PGT – Blastomere and Trophectoderm
- Oocyte and Embryo Vitrification/Cryopreservation
- Clinical and Diagnostic Andrology

EDUCATION: Ph.D. Graduate School of Biological Sciences. Mount Sinai School of Medicine of New York University. New York, NY
September, 2007

B.S in Biomedical Technologies, The University of Vermont, School of Allied Health Sciences. Burlington, VT
May, 2001

ABSTRACTS: Jeyendran, Rajasingam; Fishel, Larry; **Kloos, Bryan**; Ivanovic, Milica; Levrant, Seth; Puscheck, Elizabeth; Pergament, Eugene. Human Chorionic Gonadotropin in Spent Embryo Culture Fluid - A Biomarker for Identifying a Competent Embryo from the Cohort. 4th IVF-Worldwide Online Congress in Reproductive Medicine Oct. 1-3, 2021, Abstract Book, Page 17

Bryan Kloos, PhD; Andrew J. Levi, MD; Kristen Bender, MS; G Charles Ostermeier, PhD. A double-blind, prospective test demonstrates an association between capacitation status and pregnancy. *Fertility and Sterility*. Volume 116, Issue 3, Supplement, 341-E342, September 01, 2021

Scott, L., Finn, A., **Kloos, B.** and Davies, D. (2010) "The origin and consequences of Day-2 multi-nucleation of human Embryos" Abstracts of the 26th Annual Meeting of ESHRE, Rome, Italy, p. i195

Finn A, Davies D, **Kloos B**, Ocali O, Perkins R, Scott L. Implantation and ongoing pregnancy is most affected by progesterone regime and not AH or embryo stage in frozen thawed embryo transfer (FET) cycles. *Repro. Biomed. Online* 2010, Vol. 20, Supplement 2

R. Perkins, A. Finn, **B. Kloos**, O. Ocali, D. Davies, L. Scott. A Comparison of Mineral Oil Systems for Use in Embryo Culture. American Society for Reproductive Medicine (ASRM) 2010, Denver, CO. Poster Presentation

Kloos B, Finn A, Davies D, Ocali O, Hill J, Scott L. Human sperm cryopreservation: The effects of slow freeze versus rapid freeze protocols on sperm motility. American Society for Reproductive Medicine (ASRM) 2009, Atlanta, GA. Poster Presentation

Finn A, Scott L, **Kloos B**, Davies D, Hill J. When is one embryo not enough? Criteria for embryo transfer. American Society for Reproductive Medicine (ASRM) 2009, Atlanta, GA. Oral presentation by Kloos B.

Scott L, Finn A, **Kloos B**, Davies D, Hardy R.I, Hill J. Defining clinical criteria for minimizing twin pregnancies. American Society for Reproductive Medicine (ASRM) 2009, Atlanta, GA. Poster presentation

D.M. Davies, A. Finn, **B. Kloos**, L.A. Scott. Should maternal body mass index determine day of embryo transfer in patients having in vitro fertilization? *Fertility and Sterility* Vol. 90Supplement, Pages S127-S128 September 2008

Kloos B, Davies D, Finn A, Weiss R, Hardy I, and Hill J. High delivery rates in low prognosis (LP) and repeat failure (RF) IVF patients with the use of day 2 embryo transfer. Online Abstract Supplement, *Fertility and Sterility*.

Feirt NM, **Kloos B**, Chun JE, Hemele-Bena D, Skobe M, Schnabel FR. Angiogenic and lymphangiogenic markers are differentially expressed in comedo, non-comedo ductal carcinoma in situ and microinvasive ductal carcinoma of the breast. 29th Annual San Antonio Breast Cancer Symposium 2006.

Bryan T. Kloos and Mihaela Skobe (2006). HGF upregulates VEGF-C and cooperates with VEGF-C during lymphangiogenesis. Miami Nature Biotechnology Winter Symposium, Angiogenesis. Miami, Fl.

PUBLICATIONS:

Cardona C, Ostermeier GC, Bar-Chama N, Bodie J, Butcher M, De Jonge C, **Kloos B**, Morris R, Nichols J, Palermo GD, Rosenwaks Z, Schinfeld J, Seaman E, Sharara F, Travis AJ. Defects in sperm capacitation and fertilizing ability are highly prevalent in men undergoing fertility workups, even if normospermic. *Fertility and Sterility*. 2019; 112 (3), e281-e282

Gibot L, Galbraith T, **Kloos B**, Das S, Lacroix DA, Auger FA, Skobe M. Cell-based approach for 3D reconstruction of lymphatic capillaries in vitro reveals distinct functions of HGF and VEGF-C in lymphangiogenesis. *Biomaterials* 2016 Feb; 78.

Roberts N and **Kloos B**, Cassella M, Podgrabinska S, Persaud K, Wu Y, Pytowski B, Skobe M. Inhibition of VEGFR-3 activation with the antagonistic antibody more potently suppresses lymph node and distant metastases than inactivation of VEGFR-2. *Cancer Res*. 2006 Mar 1;66(5):2650-7.

Podgrabinska S, Braun P, Velasco P, **Kloos B**, Pepper MS, Jackson DG, Skobe M. Molecular characterization of lymphatic endothelial cells. *Proc Natl Acad Sci U S A* 2002 Dec 10;99(25):16069-74

Bryan T. Kloos and Mihaela Skobe (2005). The Role of Vascular Endothelial Growth Factor-C and Hepatocyte Growth Factor in Lymphangiogenesis and Tumor Metastasis. (Department of Defense, ERA of Hope Meeting, Philadelphia PA)