

YALE UNIVERSITY SCHOOL OF MEDICINE



Curriculum Vitae

HARVEY JON KLIMAN

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Home Address:

161 Ford Road
Woodbridge, Connecticut 06525-1710
203-397-3936 (fax)

Office Address:

Reproductive and Placental Research Unit
Department of Obstetrics, Gynecology and Reproductive Sciences
Yale University School of Medicine
333 Cedar Street
New Haven, Connecticut 06520-8063

203-785-3854 (voice)
203-785-4477 (fax)

Electronic Address:

harvey.kliman@yale.edu

Web site:

klimanlabs.yale.edu

Education:

1971-74	B.S. Syracuse University (Summa Cum Laude)
1974-81	M.D. University of Chicago
1976-80	Ph.D. University of Chicago

Postgraduate Training and Fellowship Appointments:

1981-85	Resident in Pathology Hospital of the University of Pennsylvania Philadelphia, Pennsylvania
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Faculty Appointments:

1985-86	Postdoctoral Research Fellow, Department of Pathology and Laboratory Medicine and the Department of Obstetrics and Gynecology, University of Pennsylvania School of Medicine
1986-87	Research Associate, Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine
1987-91	Assistant Professor, Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine
1991-95	Assistant Professor, Department of Pathology, Yale University School of Medicine
1991-95	Assistant Professor, Department of Obstetrics and Gynecology, Yale University School of Medicine
1995-96	Research Associate, Department of Obstetrics and Gynecology, Yale University School of Medicine
1996-	Research Scientist and Director, Reproductive and Placental Research Unit, Department of Obstetrics and Gynecology, Yale University School of Medicine

Specialty Certification:

1986	American Board of Pathology: Anatomic and Clinical Pathology
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Licensure:

Connecticut (active)
Pennsylvania (inactive status)

Awards, Honors and Membership in Honorary Societies:

1971-74	Regents Scholarship Award, New York State
1971-74	Honors Department, Syracuse University
1974	Graduated Summa Cum Laude (Biology), Syracuse University
1974	Phi Beta Kappa Election
1974	Phi Kappa Phi Honor Society Election
1975-81	Insurance Medical Scientist Scholar
1980	Sigma Xi Election

1984	Special Citation, Microscopic Category, ASCP/Kodak Medical Photography Competition.
1985-6	Clinical Research Grant, Diabetes Research and Education Foundation
1985-88	Clinical Investigator Award, NICHD, NIH
1988-9	McCabe Award
1989-90	University Research Foundation Award
1990-1	Medical Center and University BRSG Awards
1991-2	Andrew Mellon Fellowship Award
1993-5	Shannon Award, NICHD, NIH
1997	ASRM Prize winning poster. Kliman HJ , RF Feinberg, P VanDeerlin, LI Barmat, M Moomjy, JA Grifo, DL Keefe, FF Wang, DL Olive. Glandular Developmental Arrest (GDA): A Unifying Model of Reproductive Endometrial Pathology. Society for Reproductive Medicine, Cincinnati, 1997.
2007	Faculty Teaching Award, Medical Student Education
2019	Star Award Stillbirth Research, Star Legacy Foundation

Clinical Consultation Activities:

Consultant in Pathology, Office of the Chief Medical Examiner, State of Connecticut
Ad Hoc Member, Peer Review Board, New Haven County Medical Association
Consultant to defense and plaintiffs' attorneys in the area of placental and perinatal pathology
Consultant in endometrial receptivity, pregnancy loss and complications of pregnancy

Memberships in Professional and Scientific Societies:

National Societies:

American Society of Clinical Pathologists (1981-)
American Society for Cell Biology (1985-)
US and Canadian Academy of Pathology (1988-)
American Association of Pathologists (1989-)
Society for Gynecologic Investigation (1993-)
American Society for Reproductive Immunology (1994-)
American Society for Reproductive Endocrinology (1995-)
Reproductive Immunology Special Interest Group
Secretary-Treasurer (1995-6)
Vice-Chairman (1996-7)
Chairman (1997-8)
Society Maternal Fetal Medicine (1996-)
Endocrine Society (2017-)

American Society of Clinical Oncology (2020-)
International Societies:
European Trophoblast Group (1988-)
Endometrium Study Group (1993-)
European Society of Human Reproduction and Embryology
(1999-)

Grants:

1. NIH (Tal) 1R01HD109326-01A1. The Role of Mesenchymal Progenitor cells in abnormal uterine repair. 4/1/2023 – 3/31/2028. Total direct costs \$3,256,421. Co-investigator, immunohistochemistry core.
2. Autism Research Institute (Firestein, Fifer and Kliman): Placental Trophoblast Inclusions as Autism Risk Markers in Preterm Infants. Co-PI: Kliman.
3. NIH/NICHD (Taylor) Large-scale genome sequencing and integrative analyses to define genomic predictors of recurrent pregnancy loss (GPRPL). Multiple PIs. Harvey Kliman will oversee the pathologic processing of the pregnancy loss samples.
4. TerSera Pharmaceuticals, PI, Harvey Kliman. Role of Serotonin in Colon and Liver Cancer Growth. 1/1/19 –6/30/2022
5. NIH/NIBIB (Saltzman) 09/01/15 - 06/30/21
Molecular and Cellular Transport in Mucus. The major goals of this project are to examine the rates and mechanisms of protein and DNA transport in mucus and mucosal epithelia in order to design methods for passive and active immunoprotection of mucosal tissues. Harvey Kliman will oversee the pathologic examination of the studied animals.
6. Agency: NIAID/NIH, I.D.# 1P01AI116494-01, Title: Polymicrobial Infection and Host Immunity During Pregnancy, P.I.: Gil Mor , Direct Costs per year:1,000,067, Total Costs for project period: 1,646,000, Project Period: 2015–2020.
7. Department of Health and Human Services, Centers for Medicare & Medicaid Services. Estimated Placental Volume use in Rural Medicaid Populations. Role: Co-PI. 20% effort. \$20,000,000 total. 11/30/2012 – 11/29/2015, pending.
8. Diagnostic Technologies, Ltd. , PI, Harvey Kliman, 5% effort, \$45,500 total, 7/1/02-6/30/2012
9. U54HD52668-01A1 (Taylor) 4/1/07 to 3/31/2013, NIH/NICHD, \$1,000,000 Center for Endometrial Biology and Endometriosis. Role: Director, cell and pathology core.
10. NIH, Sex, Stress and Cocaine Addiction, PI: Rajita Sinha. Role: Scientific Advisory Board.

11. P50-DA16556-01 R. (Sinha) 09/30/02 – 08/31/07
ORWH/NIDA, \$1,505,000 Specialized Centers of Research
(SCOR) on Womens Health. Role: Scientific Advisory Board
12. NIH/NINDS, 1U01NS040069-01A2, Molecular Antecedents of
Brain Damage in Preterm Infants, PI: Alan Leviton, role on
project: Chair, Placental Pathology Review Committee,
\$20,495,423 total, 9/30/01-7/31/06
13. Donaghue Foundation, Endometrial Receptivity Defects in
Female Infertility, PI: Harvey Kliman, 20% effort, \$49,478 total,
9/1/98-8/31/00
14. Centocor, Inc., MAG Mucin Diagnostic, PI: Harvey Kliman,
20% effort, \$46,150 total, 7/1/95-6/30/96
15. NIH, 5R29HD29729-05, Tropho-uteronection (TUN) function
and regulation, PI: Ronald Feinberg, co-investigator: Harvey
Kliman, 10% effort, \$572,250 total, 8/1/94-7/31/99
16. NIH, 1R55HD30501-01A1, Leukocyte chemoattractants in
endometriosis, PI: Harvey Kliman, 20% effort, \$100,000 total,
\$50,000/year, 9/30/93-9/29/95
17. Abbott Laboratories, MAG Mucin, PI: Harvey Kliman, \$15,000
total, 4/92–93
18. Ares-Serono, TUN: Purification and Characterization, PI: Harvey
Kliman, 20% effort, \$100,000 total, \$50,000/year, 12/91-11/93
19. University BRSG Award, PI: Harvey Kliman, \$8,000, 7/90-6/91
20. Medical Center BRSG Award, PI: Harvey Kliman, \$10,000, 7/90-
6/91
21. University Research Foundation Award, 7/89-6/90, \$7,000
22. McCabe Award, 9/88-9/89, \$15,000
23. NIH, 1KO8HD00715-01, Steroidogenesis in the human
trophoblast, PI: Harvey Kliman, \$187,000 total, 12/85-12/88
24. Clinical Research Grant, Diabetes Research and Education
Foundation, 1985-6, \$10,000

Study Sections:

Biochemical Endocrinology (AHR-M1) Study Section, 11/1992
Reproductive Endocrinology (AHR-B1) Study Section, 3/1994
Reproductive Endocrinology (AHR-B1) Study Section, 7/1994
Division of Scientific Review, NICHD, Site Visit, 4/1996
RFARFA-HD-15-031 Novel Tools to Assess Human Placental
Structure and Function (R21) Study Section, 4/2015
RFARFA-HD-15-030/031 Novel Tools to Assess Human Placental
Structure and Function (R01/R21) Study Section, 4/2015
NICHD Human Placenta Project, Requests for Application RFA-HD-
16-036/037 entitled: " USING OMICS TO DEFINE
HUMAN PLACENTAL DEVELOPMENT AND
FUNCTION ACROSS PREGNANCY (R01/R21), 5/2016

Center for Scientific Review Special Emphasis Panel, CENTER FOR SCIENTIFIC REVIEW, ZRG1 EMNR-V (02), Member
Conflict: Endocrinology, Metabolism and Reproductive Biology, Agenda Seq Num – 347144, 07/19/2018

“Human Placenta Project” (ZRG1 EMNR-W (57) to evaluate applications responding to Program announcement (PAR-18-884 and PAR 18-885) entitled “Novel Approaches to Safe, Non-Invasive, Real Time Assessment of Human Placenta Development and Function Across Pregnancy”, 04/04/2019

Academic Committees at Yale University:

1993-95 Member, Library Committee, School of Medicine
1993-5 Member, Committee on Computers in Medical Education
1997- Ethel F. Donaghue Women’s Health Investigator Program at Yale Scientific Review Committee (SRC)
1998 ITS-Med Internet Task Force
2011-15 Yale School of Medicine Admissions Committee

Search Committees at Yale University:

1992 Member, Search for Director, Division of Reproductive Endocrinology, Department of Obstetrics and Gynecology
1992 Member, Search for Director, Division of Maternal Fetal Medicine, Department of Obstetrics and Gynecology
1992-3 Member, Pathology Residents Recruitment Committee

Teaching and Clinical Responsibilities at Yale University:

Perinatal/Placental Pathology Activities

Placental and Perinatal Pathology Program Director, 1991-95
Perinatal-Placental Review Conference (weekly), 1991-95
Reproductive Endocrinology Review Conference (weekly), 1991-95
Ob/Gyn Resident Pathology Review Series (biweekly), 1991-95
Perinatal Morbidity and Mortality Conference (monthly), 1991-95
Maternal-Fetal Medicine Lecture Series (biannual), 1991-
Obstetrics and Gynecology Community Hospital Lectures, 1991-

Medical Center Teaching

Pathology Residents: Gestational Pathology (daily), 1991-95
Pathology Residents: Perinatal Autopsy Service (daily), 1991-95
Quinnipiac College Pathologists’ Assistant Program Instructor (daily), 1991-95
Pathology 100 Laboratory Instructor, 1991-95
Pathology 100 Tutorial Leader, 1991-95

Pathology of Placenta and Fetus, Pathology 100, 1991-1995
The Endometrium and Implantation, Reproductive Biology MCDB 250, 1991-
Placenta Formation and Function, Reproductive Biology MCDB 250, 1991-
Reproductive Biology Laboratory, MCDB 251L, 2020-
Ob/Gyn 3rd year Clerkship, Reproductive Biology Course (6 times/y), 1991-
Ob/Gyn Resident CREOG Lecture Series, 1991-
Ob/Gyn Fellows Lecture Series, 1995-
Pathophysiology of the Placenta, 2nd year class, YSM, 1995-
Nurse Midwife Program, School of Nursing, Yale University, 2003-
Physiology of the Placenta, 1st year class, YSM, 2004-
School of Nursing, Yale University, 2005-
Physicians Assistants Program, Yale University, 2006-

Yale College Teaching

Biology of Reproduction, MCDB 240b, 1991-
Senior Thesis/Research, MCDB 485/495, 1994-
Freshman Seminar, Reproductive Biology, MCDB 060/1, 2007-2011
Biology of Reproduction Laboratory, MCDB 251L, 2020-

Graduate Students, Fellows, Medical and Undergraduate Trainees:

Graduate and Post-Bac Students

L-C Kao, Department of Pathology, University of Pennsylvania, "Trophoblast Interactions with Extracellular Matrix Proteins"
S Caltabiano, Department of Obstetrics and Gynecology, University of Pennsylvania, "Role of GnRH in Trophoblast hCG Synthesis and Secretion"
E Meaddough, Department of Obstetrics and Gynecology, Yale University, "Sexual activity, orgasm and tampon use are associated with a decreased risk for endometriosis"
C Lynch, Nurse-Midwifery Program, School of Nursing, Yale University, "Causes of IUFD"
S Ye, Department of Statistics, Yale University, "Modeling of Estimated Placental Volume Growth Curves" and "Frequencies of trophoblast inclusions in normal and at-risk populations."
K Anderson, Nurse-Midwifery Program, School of Nursing, Yale University, "Trophoblast Inclusions as a Predictor of Autism Risk."

K Anderson, Nurse-Midwifery Program, School of Nursing, Yale University, "Estimated Placental Volume Normative Curves in Rwanda."

B Fleming-Jones, Nurse-Midwifery Program, School of Nursing, Yale University, "Proliferative index in ASD versus normal placentas."

N Morris, Masters 1 Research Internship, Paris Descartes University, "Serotonin interactions with trophoblast nuclei."

M Firestein, PhD Candidate, Columbia University, "Efficacy of trophoblast inclusions to predict developmental disabilities."

N Morris, Masters 2 Research Internship, Paris Descartes University, "Serotonin interactions with trophoblast nuclei."

K Hofmann, Yale College Post-grad, "Trophoblast inclusions and early markers of ASD."

B Thompson, Yale College Post-grad, "Novel classification system for pregnancy loss."

D Bacheschi, Yale School of Management, Yale University, "Thermal detection device."

Medical Fellows

MA Feinman, Department of Obstetrics and Gynecology, University of Pennsylvania, "Role of cAMP in Trophoblast Differentiation"

L Schwartz, Department of Obstetrics and Gynecology, Yale School of Medicine, "Mouse Ascites Golgi (MAG) Mucin Expression And Regulation By Progesterone In The Rat"

D Fishman, Department of Obstetrics and Gynecology, Yale School of Medicine, "ECM Attachment Assay for Ovarian Cancer Cells Lines"

M Cunningham, Department of Surgery, Yale School of Medicine, "Interleukin-8 Secretion by Trophoblasts in Response to Endotoxin"

M Nachtigall, Department of Obstetrics and Gynecology, Yale School of Medicine, "Role of Leukemia Inhibitory Factor in Trophoblast Differentiation and Implantation"

T Asis, Department of Obstetrics and Gynecology, Yale School of Medicine, "EPO and CRH Expression in Normal and Stressed Placentas"

A Rebarber, Department of Obstetrics and Gynecology, Yale School of Medicine, "Identification of fetal squamous cells in the maternal circulation"

D Duffy, Department of Obstetrics and Gynecology, Yale School of Medicine, "Frequency of placental pathology in a community hospital population."

X Ying, Department of Obstetrics and Gynecology, Yale School of Medicine, "Frequency of placental pathology in a community hospital population."

K Yusuf, Department of Pediatrics, Yale University School of Medicine, "Maternal immunologic rejection of the placenta"

H Azpurua, Division of Maternal Fetal Medicine, Yale University "Validation of mathematical models of intrauterine placental volume estimates"

K Campbell, Department of Obstetrics and Gynecology, Yale School of Medicine, "Normative placental growth curves using Estimated Placental Volume (EPV)"

Post-Doctoral Fellows

R Feinberg, Department of Obstetrics and Gynecology, University of Pennsylvania, "Plasminogen Activator Inhibitor Expression in Invading Trophoblasts"

X Li, Department of Obstetrics and Gynecology, Korea, "Degradation Pathways of hCG in the Chorionic Villous"

K-S Lee, Department of Obstetrics and Gynecology, Pusan National University, Korea, "Degradation Pathways of hCG in the Chorionic Villous Core"

Senior Medical Thesis Advisor

E Buchanan, Medical Student Research Fellow of the American Heart Association, Department of Pathology, University of Pennsylvania, "Urokinase Receptor: A Modulator for Trophoblast Invasion?"

L Elmore, Yale University School of Medicine, "Induction of MAG Mucin Estrogen Responsiveness in HT-3 Cells"

R Dubowy, Yale University School of Medicine, "Cyclins as a Marker of Endometrial Differentiation"

E Nannenbergh, Visiting Medical Scholar, State University Groningen, Faculty of Medical Sciences, "Expression of MAG mucin in normal and infertile patient populations."

E Arleo, Yale University School of Medicine, "Psycho-social implications of complicated obstetrical cases"

E Harel, Yale University School of Medicine, "5HT expression in human trophoblasts."

K Murdaugh, Yale University School of Medicine, "Normative placental growth curves using Estimated Placental Volume (EPV)"

A Roberts, Yale University School of Medicine, "Normative placental growth curves using Estimated Placental Volume (EPV)"

M Kane, Yale University School of Medicine, "Normal placental growth curves and EPV efficacy using 2-D ultrasound in a maternity center in Dakar, Senegal"

B Nhundu, Yale University School of Medicine, "Normal placental growth curves and EPV efficacy using 2-D ultrasound in a maternity center in University of Zimbabwe College of Health Sciences and Parirenyatwa Hospitals"

H May, Yale University School of Medicine, "Association of trophoblast inclusions and congenital heart disease."

Undergraduate Research Advisor

S Wu, Department of Obstetrics and Gynecology, University of Pennsylvania, "Effect of ECM on Trophoblast Endocrine Function"

K Ahn, Yale College, Yale University, "Identification of endometrial tissue in menstrual and peritoneal fluid: precursor for endometriosis?"

J Arruda, Yale College, Yale University, "MAG mucin as a predictor of endometrial receptivity"

M Sleater, Yale College, Yale University, "Villous edema expression in the placenta as a consequence of intrauterine inflammation"

I Maytal, Yale College, Yale University, "Degradation pathways of hCG in the human placenta"

L French, Yale College, Yale University, "Association of trophoblast inclusions with genetic defects"

J Catalanotti, Yale College, Yale University, "Does MAG mucin expression in a natural cycle predict subsequent IVF outcome?"

T La, Yale College, Yale University, "Correlation of syncytial knots with umbilical artery Doppler velocimetry"

Y Levin, Yeshiva University, New York, "Timing and cytokine regulation of villous edema"

C Drewes, Yale College, Yale University, "Time course of meconium interaction with the fetal membrane"

K Gluck, Yale College, Yale University, "Endometrial function test (EFT) patterns in infertile women"

A Labowsky, Yale College, Yale University, "Time course of meconium interaction with the fetal membrane"

A Lorch, Yale College, Yale University, "Endometrial function test (EFT) patterns in infertile women"

I Magidina, Yale College, Yale University, "TNFalpha expression in normal and inflamed placentas"

A Jacobs, Yale University Physician's Assistants Program, "Placental Morphology in Developmental Disorders"

N Tamhankar, Yale College, Yale University, "Expression of 5HT and its receptors in normal and genetically abnormal placentas."

- S Lynch, Yale College, Yale University, "PP13: localization, function and utility in predicting gestational hypertension."
- A Socik, Yale College, Yale University, "Frequency of trophoblast inclusions in normal and ASD populations."
- Y Lee, Yale College, Yale University, "Estimated Placental Volume (EPV) normal curve development."
- P Subramanyam, Yale College, Yale University, "Estimated Placental Volume (EPV) normal curve development."
- C Seaver, Yale College, Yale University, "The Duality of Psychological Distress in the Evolving Interplay of Psychology and Infertility."
- N Garza, Yale College, Yale University, "Frequencies of Trophoblast Inclusions in Karyotypically Validated Pregnancy Loss Placentas."
- S Barry, Yale College, Yale University, "Serotonin expression and function in ASD versus normal placentas."
- M Morse, Yale College, Yale University, "Expression of glucocorticoid receptor in normal and infertile human endometrium."
- T Stanic, Yale College, Yale University, "The Role of Serotonin in Colon Cancer Growth."
- Z Subha, Yale College, Yale University, "Serotonin uptake into placental nuclei."
- K Hofmann, Yale College, Yale University, "Trophoblast inclusion expression in a well characterized pediatric cohort."
- K Hofmann, Yale College, Yale University, "Role of serotonin in Nematostella growth."
- K Ponce, Yale College, Yale University, "Relationship between newborn head circumference and trophoblast inclusion frequency."
- D Collins, Yale College, Yale University, "Effect of TPH1 inhibition on tumor growth."
- R Agashe, Yale College, Yale University, "The Use of Serotonin Inhibitors as an Anticancer Agent"
- D Bacheschi, Yale College, Yale University, "Thermal detection device."
- J Binu, Yale College, Yale University, "Thermal detection device."
- K Berman, Yale College, Yale University, "Trophoblast inclusion and intelligence."
- E Boyer, Harvard University, "Trophoblast inclusions and developmental outcomes."
- A Guru, Yale College, Yale University, "Genomic Predictors of Recurrent Pregnancy Loss"
- J Surprenant, Yale College, Yale University, "Estimated Placental Volume use in a rural setting."
- T Barton, Yale College, Yale University, "Assessment of placental pathology reporting."

B Schultz, Yale College, Yale University, "Genomic Predictors of Recurrent Pregnancy Loss"

Summer Student Advisor

J Wetmore, Yale College, Yale University, "Endometrial MAG mucin expression in normal and infertile patients"

L Gordon, Yale College, Yale University, "Endometrial receptivity and MAG mucin expression"

I Maytal, Yale College, Yale University, "Degradation pathways of hCG in the human placenta"

G Brainard, Yale College, Yale University, "Cyclin E and p27 expression in the endometrium of patients with unexplained infertility"

C Millerick, Yale College, Yale University, "Validation of the Endometrial Function Test (EFT)"

A Orina, Yale College, Yale University, "Effect of stress on markers of endometrial development"

A Lorch, Yale College, Yale University, "Endometrial function test (EFT) patterns in infertile women"

C Lynch, Duke University, "Trophoblast inclusions as a marker of genetic and/or developmental abnormalities"

C Castaneda, Yale College, Yale University, "Frequency of Chlamydial infections in unexplained infertility cases"

R Baker, High School Scholar, "Epidemiology of IUGR"

Y Chen, Yale College, Yale University "Validation of mathematical models of intrauterine placental volume estimates"

C Lynch, Yale University School of Nursing, Midwife Program, "Causes of Recurrent Pregnancy Loss"

A Anders, University of Washington, St. Louis, BioSTEP Scholar, "Validation of Vscan for Estimated Placental Volume measurements"

N Sinha, Hopkins School, Discovery to cure intern, "Frequencies of Trophoblast Inclusions in Karyotypically Validated Pregnancy Loss Placentas."

E Siegman, Fordham University, "Distribution of trophoblast inclusions in human placenta."

A Setaro, Boston University, "Frequency of trophoblast inclusions, 5HT-2B receptor and MAOA in low and ASD high risk placentas."

E Siegman, Fordham University, "Serotonin levels in cancers."

T Winkelman, Yale University, "Clinical utility of EPV in labor and delivery triage setting."

K Quinlan, Yale University, "Distribution of trophoblast inclusions in human placenta."

- A Setaro, Boston University, "5HT and SERT expression in the human placenta."
- Z Subha, Yale College, Yale University, "Serotonin expression and function in cultured trophoblasts."
- S Waddell, University of Miami, "Regulation of 5HT transport in the human placenta."
- J Norahs, University of Gothenburg, Sahlgrenska Academy of Medicine, Gothenburg, Sweden, "Serotonin uptake into placental nuclei."
- A Falkowitz, University of Florida, "Role of serotonin in *Nematostella* growth."
- R Agashe, Yale College, Yale University, "The Use of Serotonin Inhibitors as an Anticancer Agent"
- A Guru, Yale College, Yale University, "Genomic Predictors of Recurrent Pregnancy Loss"
- K Vandyck, St. Lawrence University, "Genomic Predictors of Recurrent Pregnancy Loss"
- R Schultz, Yale College, Yale University, "Genomic Predictors of Recurrent Pregnancy Loss"

Reviewer of Manuscripts for the following Journals:

American Journal of Obstetrics And Gynecology
American Journal of Pathology
American Journal of Perinatology
Biology of Reproduction
Cancer Research
Development
Developmental Biology
FASEB
Fertility and Sterility
Gynecologic and Obstetric Investigation (Editorial Board)
In Vitro
Journal of Clinical Investigation
Journal of Developmental Physiology
Laboratory Investigation
Nature Medicine
Physiological Genomics
Placenta
PLOS One
Reproductive Sciences

Trophoblast Research
Ultrasound in Obstetrics and Gynecology

Patents:

Therapeutic and Diagnostic Applications of Tropho-Uteronectin (TUN) Manipulation, patent number 5,276,017, awarded 1/4/1994

Fertility Regulation with Transforming Growth Factor Beta, patent number 5,395,825, awarded 3/7/1995

Antibodies Specific for Oncofetal Fibronectin, patent number 5,523,229, awarded 6/4/1996

Therapeutic and Diagnostic Applications of Mouse Ascites Golgi (MAG) Manipulation, patent number 5,599,680, awarded 2/4/1997

Fertility Determination with Transforming Growth Factor Beta, patent number 5,693,479, awarded 12/2/1997

Fertility Determination with Transforming Growth Factor Beta, patent number, AU 676,727, awarded 2/1/1998

Methods of Diagnosing and Monitoring Endometrial Glandular Development, 6,733,962 B2, awarded 5/11/2004

Method and System for Determining Placental Volume, United States Patent 9,504,442, awarded 11/29/2016

Method and System for Determining Placental Volume, Canadian Intellectual Property Office Patent 2,680,406, awarded 3/21/2017

Lectures by Invitation:

October 29, 1985	“Purification and characterization of human cytotrophoblasts.” Institute for Reproductive Science, Columbia University.
November 8, 1985	“Differentiation of human cytotrophoblasts in culture.” Fetal and Prenatal Loss Group, Jefferson Medical College.
October 14, 1986	“In vitro differentiation and HLA antigen expression of human cytotrophoblasts.” Department of Obstetrics and Gynecology, Albert Einstein College of Medicine.
March 17, 1988	“Biology of the human trophoblast.” Hormone Institute, Weizmann Institute, Rehovot, Israel
February 15, 1989	“Interactions between human trophoblasts and endometrium.” Dept of Pathology, Jefferson University

May 16, 1989	“Role of PAs and PAIs in trophoblast invasion.” NIH
August 4, 1989	“Models of Human Implantation.” NIH Workshop
September 27, 1989	“Interactions between human trophoblasts and endometrium <i>in vitro</i> .” European Placental Group, Paris, France.
November 22, 1989	“Mechanisms of human implantation and trophoblast invasion.” Department of Pathology, Case Western Reserve University, Cleveland, OH.
January 30, 1990	“Building the Pathology Curriculum: Impressive Results from a Simple System.” Computers in Medical Education Symposium, Apple Computer and the University of Pennsylvania, Philadelphia, PA
April 27, 1990	“CAI for Anatomic Pathology: Use of High Quality Digitized Images.” Pennsylvania Health Sciences Library Consortium, Philadelphia, PA
May 24, 1990	“Human Trophoblast-Uterine Interactions.” Molecular and Cellular Physiology of Development Group, Cornell University, Ithaca, NY
July 23, 1990	“Mechanisms of Trophoblast Attachment and Invasion.” North Shore Univ. Hospital, Cornell Univ Med Center, NY
August 2, 1990	“Human Trophoblast-Endometrium Interactions.” Long Island Jewish Medical Center, NY
August 3, 1990	“Human Trophoblast-Endometrium Interactions.” Mount Sinai School of Medicine, New York, NY
September 10, 1990	“Human Trophoblast-Endometrium Interactions.” George Washington University School of Medicine, Washington, DC
September 21, 1990	“Human Trophoblast-Endometrium Interactions.” MetroHealth Medical Center, Cleveland, OH
October 17, 1990	“Human Trophoblast-Endometrium Interactions.” Georgetown Medical Center, Washington, DC
October 19, 1990	“Tropho-uteronection.” Ares-Serono, Inc., Boston, MA
October 23, 1990	“Human Trophoblast-Endometrium Interactions.” Yale University School of Medicine, New Haven, CT
November 27, 1990	“Tropho-uteronection.” Wyeth-Ayerst Laboratories, Radnor, PA
January 15, 1991	“Trophoblast biology and ECM interactions.” Abbott Laboratories, Chicago, IL
January 16, 1991	“Trophoblast biology and ECM interactions.” Northwestern University Medical Center, Chicago, IL
January 23, 1991	“Tropho-uteronection.” Wyeth-Ayerst Laboratories, Radnor, PA
January 29, 1991	“Tropho-uteronection.” Ares Advanced Technology Inc., Randolph, MA

March 20, 1991	"Trophoblast differentiation: <i>in vivo</i> and <i>in vitro</i> correlation." Human Trophoblast Workshop, San Antonio, TX
October 2, 1991	"Chorioamnionitis and IUGR." Perinatology Grand Rounds, Yale University
October 8, 1991	"MAG: A marker of endometrial receptivity." Division of Reproductive Endocrinology, Yale University
November 21, 1991	"Complications of Pregnancy." Neonatology M&M, Yale University
February 11, 1992	"Trophoblast biology and basic pathology of the human placenta." Danbury Hospital, Danbury, CT
March 3, 1992	"Endocrine, Attachment and Invasive Pathways of Trophoblast Differentiation." Harvard School of Medicine, Boston, MA
October 19, 1992	"MAG: A marker of endometrial receptivity." Department of Biochemistry, Georgetown University
October 22, 1992	"Trophoblast Differentiation and Trophoblast-Endometrial Interactions." Pulmonary Section Research Conference, Yale University School of Medicine
March 16, 1993	"New Markers of Endometrial Function" Danbury Hospital, Danbury, CT
April 29, 1993	"Endometrium: Past, Present, Future." Grand Rounds, Department of Pathology, Yale University School of Medicine
September 8, 1993	"Chorioamnionitis: a role for interleukin-8?" European Placental Group, Manchester, England
September 13, 1993	"MAG: A marker of endometrial receptivity." Hormone Institute, Weizmann Institute, Rehovot, Israel
September 22, 1993	"MAG (mouse ascites Golgi) mucin: menstrual cycle variation, progesterone regulation, and role in endometrial receptivity." Second International Endometrium Conference, Bologna, Italy
February 3, 1994	"MAG: A marker of endometrial receptivity." Grand Rounds, Department of Obstetrics and Gynecology, Yale University School of Medicine
April 21, 1994	"Regulation of Implantation and Trophoblast Invasion." Grand Rounds, Department of Pathology, Yale University School of Medicine
May 23-24, 1994	"Role of Cytokines in the Pathogenesis of Endometriosis." NIH Symposium: Alternatives to Hysterectomy, Bench to Bedside. Bethesda, MD
May 20, 1994	"Regulation of Implantation and Trophoblast Invasion." Department of Pediatrics, Yale University School of Medicine

May 27, 1994	“Regulation of Implantation and Trophoblast Invasion.” Department of Medicine, Section of Rheumatology and Immunology, Yale University School of Medicine
September 22, 1994	“Regulation of Implantation and Trophoblast Invasion.” Department of Pathology, University of Chicago
October 11, 1994	“Regulation of Implantation and Trophoblast Invasion.” Department of Pathology, Cornell University Medical Center, New York
October 20, 1994	“Regulation of Implantation and Trophoblast Invasion.” Department of Pathology, Northwestern University Medical Center, Chicago
October 28, 1994	“Differentiation and Hormone Regulation in the Trophoblast.” Endocrine Grand Rounds, Yale University School of Medicine
April 2, 1995	“MAG-mucin expression in day 16 endometrial biopsies during mock cycles predicts pregnancy outcomes in donor egg program patients” and “Route of progesterone affects rates of endometrial gland dyssynchrony in donor-egg patients undergoing mock cycles.” IXth International Congress on IVF, Vienna, Austria.
April 11, 1995	“Regulation of Implantation.” Ob/Gyn Grand Rounds, Hadassah Medical Center, Jerusalem, Israel
April 12, 1995	“Regulation of Implantation.” Ob/Gyn Grand Rounds, Golda Meir Medical Center, Petah-Tiqva, Israel
April 26, 1995	“Regulation of Implantation and Trophoblast Invasion.” Grand Rounds, Department of Obstetrics and Gynecology, Wayne State, MI
September 14, 1995	“Regulation of Implantation and Trophoblast Invasion.” Grand Rounds, Department of Obstetrics and Gynecology, St. Mary’s Hospital, Waterbury, CT
September 20, 1995	“Potential Role Of Cytokine Networks In Trophoblast Differentiation And Implantation.” VIth Meeting of the European Placental Group. Liege, Belgium
October 2, 1995	“Regulation of Implantation and Trophoblast Invasion.” Grand Rounds, Department of Obstetrics and Gynecology, Danbury Hospital, Danbury, CT
October 24, 1995	“Behind Every Healthy Baby Is A Healthy Placenta.” Connecticut Legal Nurses Association
November 1, 1995	“Regulation of Implantation and Trophoblast Invasion.” Grand Rounds, Department of Obstetrics and Gynecology, Hospital of St. Raphael, New Haven, CT
November 7, 1995	“Role Of Cytokine Networks In Trophoblast Differentiation And Implantation.” Department of Obstetrics and Gynecology, Harvard University
November 28, 1995	“MAG Mucin: Marker of Uterine Receptivity.” Reproductive Endocrinology Research Seminar,

	University of Pennsylvania, Department of Obstetrics and Gynecology, Philadelphia, PA
February 16, 1996	"Pathologic Findings in Recurrent Pregnancy Loss." Recurrent Pregnancy Loss Center, Yale University
March 12, 1996	"MAG Mucin: Marker of Uterine Receptivity." Reproductive Endocrinology Research Seminar, IVF Center, Cornell University Medical Center, New York, NY
April 12, 1996	"Regulation of Implantation and Trophoblast Invasion." First International Symposium on Reproductive Endocrinology, Sao Paulo, Brasil
May 10, 1996	"Maternal Immunologic Reactions Against the Placenta." State-of-the-Art Program, American Pediatric Association Annual Meeting, Washington, DC
May 15, 1996	"Regulation of Implantation and Trophoblast Invasion." Reproductive Endocrinology Research Seminar, The Institute for Reproductive Medicine and Science of Saint Barnabas, St. Barnabas Medical Center, Livingston, NJ
June 10, 1996	"MAG Mucin and Endometrial Receptivity." Conference on Human Uterine Receptivity for Blastocyst Implantation, NICHD, Bethesda, MD
January 8, 1997	"Behind Every Healthy Baby is a Healthy Placenta." Grand Rounds, Department of Obstetrics and Gynecology, Beth Israel Medical Center, Boston, MA
January 8, 1997	"MAG Mucin and Endometrial Receptivity." Boston IVF, Boston, MA
May 6, 1997	"Behind Every Healthy Baby is a Healthy Placenta." ACOG Lecture, Department of Obstetrics and Gynecology, St. Raphael's Hospital, New Haven, CT
October 18, 1997	"Immunologic reactions against the placenta." Reproductive Immunology in Clinical Practice Postgraduate course, ASRM Annual Meeting, Cincinnati, OH
October 21, 1997	"Markers of Endometrial Receptivity" Endometrial Factors in Infertility Minisymposium, ASRM Annual Meeting, Cincinnati, OH
October 22, 1997	"What can we learn from pathologic examination of pregnancy loss tissue?" Roundtable, ASRM Annual Meeting, Cincinnati, OH
February 16, 1998	"Immunologic reactions against the placenta and fetus throughout gestation." Wolfson Medical Center, Tel-Aviv, Israel
February 17, 1998	"MAG Mucin and Endometrial Receptivity." Tel-Aviv Sourasky Medical Center, Tel-Aviv, Israel
February 18, 1998	"MAG Mucin and Endometrial Receptivity." Rabin Medical Center, Petach-Tikva, Israel

March 10, 1998	"Immunologic reactions against the placenta and fetus throughout gestation." Griffin Medical Center, Derby, CT
March 18, 1998	"Immunologic reactions against the placenta and fetus throughout gestation." Perinatal Research Conference, Yale University, New Haven, CT
May 27, 1998	"Behind Every Healthy Baby is a Healthy Placenta," "MAG Mucin and Endometrial Receptivity," and "Immunologic reactions against the placenta and fetus throughout gestation." University of Delaware Medical Center, Wilmington, DE
October 4, 1998	"Immunologic reactions against the placenta, fetus and implantation site." Reproductive Immunopathology, Postgraduate course, ASRM Annual Meeting, San Francisco, CA
October 6, 1998	"Endometrial Assessment Revisited: New tools and approaches." Roundtable, ASRM Annual Meeting, San Francisco, CA
October 20, 1998	"Behind Every Healthy Baby is a Healthy Placenta." Grand Rounds, Department of Obstetrics and Gynecology, St. Vincents Medical Center, Bridgeport, CT
January 13, 1999	"Behind Every Healthy Baby is a Healthy Placenta." Grand Rounds, Department of Obstetrics and Gynecology, Norwalk Medical Center, Norwalk, CT
February 1, 1999	"Endometrial Assessment Revisited: New tools and approaches." Grand Rounds, Department of Obstetrics and Gynecology, Danbury Medical Center, Danbury, CT
February 25, 1999	"Endometrial Assessment Revisited: New tools and approaches." Grand Rounds, Department of Obstetrics and Gynecology, Bridgeport Medical Center, Bridgeport, CT
February 26, 1999	"Glandular Developmental Arrest: A new paradigm for endometrial assessment." Research Conference, Department of Obstetrics and Gynecology, Yale University, New Haven, CT
March 3, 1999	"Endometrial Assessment Revisited: New tools and approaches." Grand Rounds, Department of Obstetrics and Gynecology, St. Raphael's Medical Center, New Haven, CT
March 5, 1999	"Behind Every Healthy Baby is a Healthy Placenta." Grand Rounds, Department of Obstetrics and Gynecology, Women & Infants Hospital, Brown University, Providence, RI
March 9, 1999	"Endometrial Assessment Revisited: New tools and approaches." Grand Rounds, Department of Obstetrics and Gynecology, Griffin Hospital, Derby, CT

May 7, 1999	“Glandular Developmental Arrest: A new paradigm for endometrial assessment.” Women’s Center Research Talk, Yale University, New Haven, CT
October 6, 1999	“Endometrial Assessment Revisited: New tools and approaches.” Grand Rounds, Department of Obstetrics and Gynecology, St. Raphael’s Medical Center, New Haven, CT
December 3, 1999	“Update on markers of endometrial receptivity.” Division of Reproductive Endocrinology, Yale University, New Haven, CT
February 9, 2000	“Update on markers of endometrial receptivity.” Grand Rounds, Department of Obstetrics and Gynecology, St. Raphael’s Medical Center, New Haven, CT
March 30, 2000	“Cyclins as markers of endometrial receptivity.” Grand Rounds, Bridgeport Hospital, Bridgeport, CT
April 5, 2000	“Pathology of recurrent pregnancy loss.” Grand Rounds, Department of Obstetrics and Gynecology, St. Raphael’s Medical Center, New Haven, CT
May 17, 2000	“Regulation of placental growth.” Department of Mathematics, Tulane University, New Orleans, LA.
May 22, 2000	“Endometrial assessment: use of developmental markers.” Sero ACOG symposium “Progesterone and endometrial development: setting the stage for successful pregnancy,” ACOG 48 th annual clinical meeting, San Francisco, CA
May 24, 2000	“Endometrial assessment: use of developmental markers.” Grand Rounds, Jones Institute, Norfolk, VA
June 3, 2000	“Update on markers of endometrial receptivity.” Texas Assisted Reproductive Technologies Society annual meeting, Austin, TX
June 8, 2000	“Role of TGF β in implantation and trophoblast invasion.” Research Seminar, Ares Advanced Technologies, Norwell, MA
August 31, 2000	“Endometrial assessment: use of developmental markers.” Division of Reproductive Endocrinology, University of Connecticut, Framingham, CT
September 11, 2000	“Role of TGF β in implantation and trophoblast invasion.” Research Seminar, Blue Ridge Pharmaceuticals, Greensboro, NC
September 13-14, 2000	“Improving Implantation.” National teleconference, Telepoint, Chicago, IL
September 14, 2000	“Endometrial assessment: use of developmental markers.” Grand Rounds, St. Mary’s Hospital, Waterbury, CT
September 21, 2000	“MAG Mucin and Endometrial Receptivity.” Donaghue Foundation Research Symposium, New Haven, CT

November 14, 2000	“Endometrial assessment: use of developmental markers.” Division of Reproductive Endocrinology, Brigham and Womens Hospital, Harvard University, Boston, MA
December 5, 2000	“Endometrial assessment: use of developmental markers to assess endometrial hyperplasia.” Wyeth Ayerst Women’s Health Research Institute, Radnor, PA
February 16, 2001	“Development of an Endometrial Function Test (EFT).” Research Conference, Department of Obstetrics and Gynecology, Yale University, New Haven, CT
March 1, 2001	“Development of an Endometrial Function Test (EFT).” Department of Obstetrics and Gynecology, Waterbury Hospital, Waterbury, CT
April 12, 2001	“Development of an Endometrial Function Test (EFT).” Department of Obstetrics and Gynecology, St. Mary’s Hospital, Waterbury, CT
May 22, 2001	“Behind Every Healthy Baby is a Healthy Placenta.” Grand Rounds, Department of Obstetrics and Gynecology, Albert Einstein School of Medicine, New York, NY
May 22, 2001	“Endometrial assessment: use of developmental markers.” Division of Reproductive Endocrinology, Department of Obstetrics and Gynecology, Albert Einstein School of Medicine, New York, NY
January 2, 2002	“Development and Utilization of the Endometrial Function Test (EFT) TM .” Grand Rounds, Department of Obstetrics and Gynecology, St. Raphael Hospital
January 14, 2002	“Development and Utilization of the Endometrial Function Test (EFT) TM .” Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, Yale University, New Haven, CT
January 17, 2002	“Development and Utilization of the Endometrial Function Test (EFT) TM .” Division of Reproductive Endocrinology and Infertility, Department of Obstetrics and Gynecology, Brown University, Providence, RI
January 30, 2002	“Development and Utilization of the Endometrial Function Test (EFT) TM .” Grand Rounds, Department of Obstetrics and Gynecology, Abington Memorial Hospital, Abington, PA
January 31, 2002	“Development and Utilization of the Endometrial Function Test (EFT) TM .” New England Fertility Institute, Westport, CT
February 8, 2002	“Development and Utilization of the Endometrial Function Test (EFT) TM .” Department of Obstetrics and Gynecology, Woman’s Hospital, Houston, TX

February 19, 2002	“Recurrent pregnancy loss in Polycystic Ovary Disease.” Web chat, American Infertility Association
February 21, 2002	“Development and Utilization of the Endometrial Function Test (EFT) TM .” Grand Rounds, Department of Obstetrics and Gynecology, Bridgeport Hospital, Bridgeport, CT
March 13, 2002	“Development and Utilization of the Endometrial Function Test (EFT) TM .” New England Fertility Center, Reading, MA
March 14, 2002	“Development and Utilization of the Endometrial Function Test (EFT) TM .” Reproductive Sciences Associates, Stony Brook, NY
March 23, 2002	“Behind Every Healthy Baby is a Healthy Placenta.” Resident Teaching Conference, UCLA School of Medicine, Los Angeles, CA
March 25, 2002	“Development and Utilization of the Endometrial Function Test (EFT) TM .” Greater Los Angeles Reproductive Endocrinology Society, Los Angeles, CA
April 28, 2002	“How the Endometrial Function Test (EFT) TM can Help you Become Pregnant.” American Infertility Association, New York, NY
May 7, 2002	“Development and Utilization of the Endometrial Function Test (EFT) TM .” San Diego Reproductive Endocrinologists Society, San Diego, CA
May 8, 2002	“Development and Utilization of the Endometrial Function Test (EFT) TM .” Bay Area Reproductive Endocrinology Society, San Francisco, CA
June 20, 2002	“The Endometrial Function Test (EFT) TM Directs Care and Predicts Art Outcome.” New England Fertility Institute, Stamford, CT
September 24, 2002	“Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss.” Department of Obstetrics and Gynecology, Brigham and Women’s Hospital, Harvard University School of Medicine, Boston, MA
October 25, 2002	“Behind Every Healthy Baby is a Healthy Placenta.” Department of Pediatrics, Health Science Center at Brooklyn, State University of New York, NY
November 15, 2002	“Trophoblast morphologic assessment (TMA): Utility in the diagnosis of autism and other neurologic defects” Child Study Center, Yale University, New Haven, CT
November 16, 2002	“Endometrial and Placental Assessment: Learn why you may have Implantation Failure or Recurrent Pregnancy Loss.” RESOLVE of the Bay State’s, Marlboro, MA
November 16, 2002	“On the Horizon: New Techniques and Treatments for Infertility” RESOLVE of the Bay State’s, Marlboro, MA

December 4, 2002	“Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss.” Department of Obstetrics and Gynecology, Cornell Medical Center, New York, NY
January 21, 2003	“Development and Utilization of the Endometrial Function Test (EFT®).” Department of Pathology, Yale University, New Haven, CT
March 4, 2003	“Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss.” Division of Reproductive Endocrinology, University of Connecticut, Framingham, CT
March 14, 2003	“Behind Every Healthy Baby is a Healthy Placenta, Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss” Department of Obstetrics and Gynecology, Albert Einstein Healthcare Network, Philadelphia, PA
March 21, 2003	“Overview of Placental Pathology.” Department of Obstetrics and Gynecology, University of Michigan, Lansing, Michigan.
March 22, 2003	“Utilization of Immunohistochemistry in the Evaluation of the Placenta.” Department of Obstetrics and Gynecology, University of Michigan, Lansing, Michigan.
April 1, 2003	“Development and Utilization of the Endometrial Function Test (EFT®).” Department of Pathology, Yale University, New Haven, CT
April 10, 2003	“Development and Utilization of the Endometrial Function Test (EFT®).” Department of Obstetrics and Gynecology, University of British Columbia, Vancouver, BC, Canada
April 11, 2003	“Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss.” Department of Obstetrics and Gynecology, University of British Columbia, Vancouver, BC, Canada
April 27, 2003	“Tools to Investigate Patients with Implantation Failure.” American Infertility Association Annual Meeting, New York, NY
April 28, 2003	“Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss.” Department of Pathology, Yale University School of Medicine, New Haven, CT
September 22, 2003	“Improved endometrial assessment utilizing cyclin E and p27” Department of Obstetrics, Gynecology and Reproductive Sciences, Yale University School of Medicine, New Haven, CT

October 27-8, 2003	“Trophoblast inclusions: modeling and association with genetic and developmental defects.” Royal Society of Medicine, London, UK
November 12, 2003	“Improved endometrial assessment utilizing cyclin E and p27.” START Clinic, Toronto, Canada
November 13, 2003	“Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss.” Department of Obstetrics and Gynecology, Mt. Sinai Medical Center, Toronto, Canada
November 13, 2003	“Behind Every Healthy Baby is a Healthy Placenta.” Society of Obstetricians and Gynecologists, Toronto, Canada
November 15, 2003	“Implantation Failure and Recurrent Pregnancy Loss.” RESOLVE of the Bay State’s, Marlboro, MA
November 21, 2003	“Behind Every Healthy Baby is a Healthy Placenta.” American Conference Institute, College of Physicians, Philadelphia, PA
February 13, 2004	“Improved endometrial assessment utilizing cyclin E and p27.” The Center for Advanced Reproductive Medicine, Norwalk, CT
March 9, 2004	“Behind Every Healthy Baby is a Healthy Placenta.” American Conference Institute, San Francisco, CA
March 12, 2004	“Behind Every Healthy Baby is a Healthy Placenta, Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss” Department of Obstetrics and Gynecology, Albert Einstein Healthcare Network, Philadelphia, PA
March 18, 2004	“Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss.” Atlanta Reproductive Endocrinology Society, Atlanta, Georgia
April 21, 2004	“The Normal and Abnormal Endometrium.” Department of Psychiatry, Yale University, New Haven, CT
April 23, 2004	“Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss.” Department of Obstetrics and Gynecology, University of Chicago, Chicago, IL
April 30, 2004	“Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss.” In the Company of Scholars: Yale Women in a Changing World, Women’s Health Research at Yale University, New Haven, CT
May 12, 2004	“Behind Every Healthy Baby is a Healthy Placenta, Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss” Department of Obstetrics and Gynecology, Bryn Mawr Hospital, Bryn Mawr, PA

June 8, 2004	"Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss." IVF of New Jersey, Summerset, NJ
June 15, 2004	"Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss." Reproductive Medicine Associates of New Jersey, Morristown, NJ
September 29, 2004	"Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss." Department of Obstetrics and Gynecology, North Shore Medical Center, Manhasset, NY
October 25, 2004	"Behind Every Healthy Baby is a Healthy Placenta." American Conference Institute, Orlando, FL
November 13, 2004	"Implantation Failure and Recurrent Pregnancy Loss." RESOLVE of the Bay State's, Marlboro, MA
November 20, 2004	"A New Tool to Investigate Implantation Failure: Endometrial Function Test® (EFT®)." Southeast Regional Infertility Conference, Atlanta, GA
January 11, 2005	"Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss." Department of Obstetrics and Gynecology, Griffin Hospital, Derby, CT
February 9, 2005	"Behind Every Healthy Baby is a Healthy Placenta." SMFM Postgraduate course, Reno, NV
March 7, 2005	"Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss." Department of Obstetrics and Gynecology, Danbury Hospital, Danbury, CT
March 16, 2005	"The Endometrial Function Test® (EFT®) and Trophoblast Morphologic Analysis (TMA): Tools to Assess Implantation Failure and Recurrent Pregnancy Loss." Department of Obstetrics and Gynecology, Beth Israel Hospital, Boston, MA
April 2, 2005	"Behind Every Healthy Baby is a Healthy Placenta." American Conference Institute, Orlando, FL
April 20, 2005	"Behind Every Healthy Baby is a Healthy Placenta." American Conference Institute, Chicago, IL
May 17, 2005	"A New Tool to Investigate Implantation Failure: Endometrial Function Test® (EFT®)." Reproductive Medical Associates of New Jersey, Morristown, NJ
June 7, 2005	"Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss." Departments of Obstetrics and Gynecology and Clinical Genetics, Institute for Human Genetics, Academic Medical Center, Amsterdam, Netherlands
September 14, 2005	"Behind Every Healthy Baby is a Healthy Placenta." Triad Hospital Perinatal Conference, Plano, TX

September 23, 2005	"Behind Every Healthy Baby is a Healthy Placenta." Evansville, IN
September 29, 2005	"Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss." Department of Obstetrics and Gynecology, University of Rochester, Rochester, NY
September 29, 2005	"Behind Every Healthy Baby is a Healthy Placenta." Department of Obstetrics and Gynecology, University of Rochester, Rochester, NY
October 17, 2005	"A New Tool to Investigate Implantation Failure." Round Table, ASRM, Montreal, Canada
October 27, 2005	"The Endometrial Function Test® (EFT®) and Trophoblast Morphologic Analysis (TMA): Tools to Assess Implantation Failure and Recurrent Pregnancy Loss." Department of Obstetrics and Gynecology, New York University School of Medicine, New York, NY
November 5, 2005	"Implantation Failure and Recurrent Pregnancy Loss." RESOLVE of the Bay State's, Marlboro, MA
February 15, 2006	"Trophoblast Inclusions: A possible marker of Autism Spectrum Disorder (ASD)." Women's Health Research at Yale, Yale University, New Haven, CT
March 12, 2006	"Update on placental physiology and pathology." Diagnostic Technologies, Haifa, Israel
March 13, 2006	"Behind Every Healthy Baby is a Healthy Placenta, Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss" Department of Obstetrics and Gynecology, CME program of Tel Aviv University, Ben Gurion University and Haifa University, Israel
April 1, 2006	"Behind Every Healthy Baby is a Healthy Placenta." New England Perinatal Society Meeting, Manchester, VT
May 2, 2006	"The Endometrial Function Test® (EFT®) and Trophoblast Morphologic Analysis (TMA): Tools to Assess Implantation Failure and Recurrent Pregnancy Loss." Department of Obstetrics and Gynecology, St. Lukes Medical Center, New York, NY
May 9-10, 2006	"Behind Every Healthy Baby is a Healthy Placenta, Tools to Investigate Patients with Implantation Failure and Recurrent Pregnancy Loss" Department of Obstetrics and Gynecology, George Washington University Medical Center, Washington, DC
May 21, 2006	"The Placental Pathologist's View on Preterm Delivery." Nordic Federation of Societies of Obstetrics and Gynecology, Göteborg, Sweden
May 25, 2006	"Behind Every Healthy Baby is a Healthy Placenta." Fairmont, The Queen Elizabeth Hotel, Montreal, Canada

June 20, 2006	“Behind Every Healthy Baby is a Healthy Placenta.” American Conference Institute, College of Physicians, Philadelphia, PA
July 11, 2006	“The Endometrial Function Test® (EFT®) and Trophoblast Morphologic Analysis (TMA): Tools to Assess Implantation Failure and Recurrent Pregnancy Loss.” University of Connecticut Fertility Center, Storrs, CT
September, 13, 2006	“Behind Every Healthy Baby is a Healthy Placenta.” Triad Perinatal Conference, Dallas, TX
October 5, 2006	“Trophoblast Inclusions: A marker of Autism Spectrum Disorder (ASD) and Other Genetic Diseases.” Grand Rounds, Danbury Hospital, Danbury, CT
October 24, 2006	“A New Tool to Investigate Implantation Failure.” Round Table, ASRM, New Orleans, LA
November 28, 2006	“The Endometrial Function Test® (EFT®) and Trophoblast Morphologic Analysis (TMA): Tools to Assess Implantation Failure and Recurrent Pregnancy Loss.” Department of Obstetrics and Gynecology, Medical University of South Carolina, Charleston, SC
November 28, 2006	“Trophoblast Inclusions: A marker of Autism Spectrum Disorder (ASD)” Department of Pathology, Medical University of South Carolina, Charleston, SC
January 17, 2007	“The Endometrial Function Test® (EFT®) and Trophoblast Morphologic Analysis (TMA): Tools to Assess Implantation Failure and Recurrent Pregnancy Loss.” Department of Obstetrics and Gynecology, University South Florida, Tampa, FL
February 1, 2007	“Intrauterine Infections: The Most Common Cause of Preterm Labor and Delivery.” Grand Rounds, Waterbury Hospital, Waterbury, CT
March 15, 2007	“Behind Every Healthy Baby is a Healthy Placenta.” Grand Rounds, Waterbury Hospital, Waterbury, CT
June 1, 2007	“Behind Every Healthy Baby is a Healthy Placenta.” Fairmont Le Chateau Montebello in Montebello, Quebec, Canada
June 8, 2007	“The Endometrial Function Test® (EFT®) in Donor Egg Programs.” Donor Egg Conference, Charleston, SC
June 12, 2007	“Behind Every Healthy Baby is a Healthy Placenta.” Grand Rounds, Haifa University Medical Center, Haifa, Israel
June 19, 2007	“Behind Every Healthy Baby is a Healthy Placenta.” American Conference Institute, College of Physicians, Philadelphia, PA
September 5, 2007	“Behind Every Healthy Baby is a Healthy Placenta.” Washington Hospital, Washington, DC

October 16, 2007	“Diagnostic Testing for Recurrent Implantation Failure.” Convention Center, Washington, DC
January 20, 2008	“Trophoblast expression of PP13.” DTL, Haifa, Israel
April 1, 2008	“Behind Every Healthy Baby is a Healthy Placenta.” Grand Rounds, University of Gothenburg, Sweden
April 9, 2008	“Behind Every Healthy Baby is a Healthy Placenta.” Grand Rounds, Department of Obstetrics and Gynecology, Abington Hospital, Abington, PA
May 4, 2008	“Differential expression of PP13 in Villus and Invasive Trophoblasts.” DTL, Haifa, Israel
May 5, 2008	“The next step for prenatal surveillance: Estimated Placental Volume.” Rambam Medical Center, Haifa, Israel
May 7, 2008	“Differential expression of PP13 in Villus and Invasive Trophoblasts.” B’nai Zion Medical Center, Haifa, Israel
June 14, 2008	“Placental assessment in cases of IUFD and recurrent pregnancy loss.” Yale University Continuing Medical Education Program
June 17, 2008	“Behind Every Healthy Baby is a Healthy Placenta.” American Conference Institute, Hilton Business Center, Boston, MA
June 18, 2008	“The Value of Placental Pathology for the MFM Specialist.” MFM Videoconference Network, Department of Obstetrics and Gynecology, Cedars-Sinai Medical Center, Los Angeles, CA
July 14-5, 2008	“Behind Every Healthy Baby is a Healthy Placenta,” “Don’t Throw Out Your Best Defense,” and “The next step for prenatal surveillance: Estimated Placental Volume.” NIH Perinatology Research Branch, Wayne State University, Detroit, MI
September 11, 2008	“Differential expression of PP13 in Villus and Invasive Trophoblasts.” 14 th IFPA/12 EPG Meeting, Graz, Austria
September 20, 2008	“Placental assessment in cases of IUFD and recurrent pregnancy loss.” International Gestational Hypertension Meeting, Washington, DC
September 21, 2008	“Trophoblast mediated conversion of maternal decidual arterioles: the diversion hypothesis” and “The Placenta as a Predictor for Genetic and Developmental Abnormalities.” International Gestational Hypertension Meeting, Washington, DC
September 25, 2008	“Behind Every Healthy Baby is a Healthy Placenta.” Health Management Associates, Dallas, TX
November 14, 2008	“Risk Management: Taking Placenta Pathology to the Next Level in Patient Care.” Allied World Fall Audio Seminar Presentation

December 2, 2008	"The Endometrial Function Test® (EFT®) and Trophoblast Morphologic Analysis (TMA): Tools to Assess Implantation Failure and Recurrent Pregnancy Loss." Department of Obstetrics and Gynecology, Beth Israel Medical Center, Boston, MA
January 19, 2009	"Trophoblast mediated conversion of maternal decidual arterioles: the diversion hypothesis." Obstetrical Prenatal Markers, Fairmont Copley Plaza Hotel, Boston, MA
February 5, 2009	"Stress in Reproduction: impact on endometrial receptivity, the placenta and parturition." North American Society for Psychosocial Obstetrics and Gynecology, Yale University, New Haven, CT
February 20, 2009	"The Endometrial Function Test® (EFT®) and Trophoblast Morphologic Analysis (TMA): Tools to Assess Implantation Failure and Recurrent Pregnancy Loss." RMA of Connecticut, Norwalk, CT
March 11, 2009	"Behind Every Healthy Baby is a Healthy Placenta." Ullevål University Hospital, Oslo, Norway
March 11, 2009	"Trophoblast Inclusions: A marker of Autism Spectrum Disorder (ASD)." Ullevål University Hospital, Oslo, Norway
March 12, 2009	"Medical legal applications in Placental Pathology." Ullevål University Hospital, Oslo, Norway
March 13, 2009	"The next step for prenatal surveillance: Estimated Placental Volume" Ullevål University Hospital, Oslo, Norway
March 17-8, 2009	"Behind Every Healthy Baby is a Healthy Placenta." Grand Rounds, Department of Obstetrics and Gynecology, George Washington University Medical Center, Washington, DC
April 2, 2009	"The next step for prenatal surveillance: Estimated Placental Volume." Grand Rounds, Department of Obstetrics and Gynecology, University of Pennsylvania, Philadelphia, PA
April 22, 2009	"The Endometrial Function Test® (EFT®) and Trophoblast Morphologic Analysis (TMA): Tools to Assess Implantation Failure and Recurrent Pregnancy Loss." Lenox Hill Medical Center, NY, NY
April 29, 2009	Trophoblast Inclusions: A marker of genetic abnormalities and Autistic Spectrum Disorders. PerkinElmer, Waltham, MA
May 5, 2009	"The Endometrial Function Test® (EFT®) and Trophoblast Morphologic Analysis (TMA): Tools to Assess Implantation Failure and Recurrent Pregnancy Loss." Mt. Sinai Medical Center, Toronto, Canada

May 21, 2009	“PP13 (Galectin 13) Mediated Zones of Necrosis Diverts the Maternal Immune Response Away from the Decidual Spiral Arterioles.” Placentas in the Promised Land, Jerusalem, Israel
May 25, 2009	“PP13 (Galectin 13) Mediated Zones of Necrosis Diverts the Maternal Immune Response Away from the Decidual Spiral Arterioles.” Shari Zedek, Jerusalem, Israel
June 3, 2009	“Behind Every Healthy Baby is a Healthy Placenta.” HMA, Plano, TX
February 24, 2010	“The next step for prenatal surveillance: Estimated Placental Volume.” Pierson Fellow’s Dinner, Pierson College, Yale University
March 11, 2010	“The next step for prenatal surveillance: Estimated Placental Volume.” Grand Rounds, Department of Obstetrics and Gynecology, Sinai Hospital, Baltimore, MD
March 25, 2010	“PP13 (Galectin 13) Mediated Zones of Necrosis Diverts the Maternal Immune Response Away from the Decidual Spiral Arterioles.” Grand Rounds, Department of Medicine, Mayo Clinic, Phoenix, AZ
April 9, 2010	“PP13 (Galectin 13) Mediated Zones of Necrosis Diverts the Maternal Immune Response Away from the Decidual Spiral Arterioles.” Reproductive Science Seminar Program, Department of Obstetrics, Gynecology and Reproductive Sciences, Yale University School of Medicine.
April 28, 2010	“PP13 (Galectin 13) Mediated Zones of Necrosis Diverts the Maternal Immune Response Away from the Decidual Spiral Arterioles.” B’nai Zion Medical Center, Haifa, Israel
May 7, 2010	“The next step for prenatal surveillance: Estimated Placental Volume.” Eunice Kennedy Shriver National Institute of Child Health and Human Development National Institutes of Health, Bethesda, MD
May 19, 2010	“The next step for prenatal surveillance: Estimated Placental Volume.” Ullevål University Hospital, Oslo, Norway
June 2, 2010	“Behind Every Healthy Baby is a Healthy Placenta.” HMA, Plano, TX
June 22, 2010	“The next step for prenatal surveillance: Estimated Placental Volume.” American Conference Institute, National Advanced Forum on Obstetric Malpractice, Union League, Philadelphia, PA
September 16, 2010	“Behind Every Healthy Baby is a Healthy Placenta.” BETA Healthcare Ob Risk Symposium, Long Beach, CA

November 3, 2010	"The next step for prenatal surveillance: Estimated Placental Volume." Department of Obstetrics and Gynecology, Albert Einstein Medical Center, Bronx, NY
November 4, 2010	"The next step for prenatal surveillance: Estimated Placental Volume." YNH, New Haven, CT
January 7, 2011	"Trophoblast Inclusions: A marker of genetic abnormalities and Autistic Spectrum Disorders." Eunice Kennedy Shriver National Institute of Child Health and Human Development National Institutes of Health, Bethesda, MD
January 27, 2011	"Trophoblast Inclusions: A marker of genetic abnormalities and Autistic Spectrum Disorders." Lake Norman Counseling & Autism Services, Lake Norman, NC
March 9, 2011	"Update on Estimated Placental Volume." Ullevål University Hospital, Oslo, Norway
April 27, 2011	"The next step for prenatal surveillance: Estimated Placental Volume." Department of Obstetrics and Gynecology, NYU Medical Center, NY, NY
May 17, 2011	"Tools to Assess Implantation Failure and Recurrent Pregnancy Loss" Reproductive Endocrine Associates of Charlotte, Charlotte, NC
May 18, 2011	"Trophoblast Inclusions: A marker of genetic abnormalities and Autistic Spectrum Disorders." Virginia Tech, Blacksburg, VA
May 19, 2011	"Trophoblast Inclusions: A marker of genetic abnormalities and Autistic Spectrum Disorders." Camelot Therapeutic School, Pulaski, VA
May 19, 2011	"Trophoblast Inclusions: A marker of genetic abnormalities and Autistic Spectrum Disorders." Charlotte Pediatric Association, Charlotte, NC
June 15, 2011	"The Value of Placental Pathology for the Ob and MFM Specialist." George Washington University Medical Center, Washington, DC
June 17, 2011	"The Placenta as a Predictor of Genetic and Developmental Abnormalities." Eunice Kennedy Shriver National Institute of Child Health and Human Development National Institutes of Health, Bethesda, MD
June 21, 2011	"Behind Every Healthy Baby is a Healthy Placenta." BETA Healthcare Ob Webinar, Long Beach, CA
July 26, 2011	"The Placenta as a Predictor of Genetic and Developmental Abnormalities." Department of Pediatrics, Women and Infants Hospital, Providence, RI

August 23, 2011	“Tools to Assess Implantation Failure and Recurrent Pregnancy Loss” Sheer Institute for Reproductive Medicine, New York, NY
September 15, 2011	“PP13 (Galectin 13) Mediated Zones of Necrosis Diverts the Maternal Immune Response Away from the Decidual Spiral Arterioles.” European Placental Group, Geilo, Norway
October 6, 2011	“Tools to Assess IUFD and Recurrent Pregnancy Loss”, International Stillbirth Research Roundtable, Bloomington, MN
November 1, 2011	“Behind Every Healthy Baby is a Healthy Placenta.” Pluristem, Haifa, Israel
November 2, 2011	“Relationship between PP13 (Galectin 13) and Preeclampsia.” HyLabs, Rehovot, Israel
November 3, 2011	“The Value of Placental Pathology for the Ob and MFM Specialist.” The Israel Society of Placenta Research, Weizmann Institute of Science, Rehovot, Israel
December 6, 2011	“Tools to Assess Implantation Failure and Recurrent Pregnancy Loss” Boston IVF Grand Rounds, Boston, MA
December 7, 2011	“Intrauterine Infections: The Most Common Cause of Preterm Labor and Delivery.” Department of Pediatrics, UConn Medical Center, Farmington, CT
December 7, 2011	“Behind Every Healthy Baby is a Healthy Placenta.” Department of Pediatrics, UConn Medical Center, Farmington, CT
December 12, 2011	“The next step for prenatal surveillance: Estimated Placental Volume.” Memphis, TN
January 13, 2012	“Trophoblast PP13 Expression: Possible Role in Normal and Abnormal Trophoblast Invasion.” Stamford Hospital, Stamford, CT
January 13, 2012	“Behind Every Healthy Baby is a Healthy Placenta.” Stamford Hospital, Stamford, CT
April 18, 2012	“What Every MFM Should Know about the Placenta.” Department of Obstetrics and Gynecology, UC Davis, Davis, CA
April 19, 2012	“The Placenta as a Predictor of Genetic and Developmental Abnormalities.” UC Davis, Davis, CA
May 4, 2012	“The Placenta as a Predictor of Genetic and Developmental Abnormalities.” Yale Child Study Center, Yale University, New Haven, CT
June 3, 2012	“Prediction of adverse OB events due to abnormal placental implantation.” 16 th International Conference on Prenatal Diagnosis, Miami, FL
October 24, 2012	“Behind Every Healthy Baby is a Healthy Placenta.” Cedars-Sinai Medical Center, Los Angeles, CA

October 24, 2012	"Tools to Assess IUFD and Recurrent Pregnancy Loss." Cedars-Sinai Medical Center, Los Angeles, CA
November 16, 2012	"Trophoblast Inclusions as a Predictor of Autism Risk." Reproductive Sciences Seminar Program, Yale University, New Haven, CT
January 8, 2013	"Tools to Assess Intrauterine Fetal Demise and Recurrent Pregnancy Loss." Waterbury Hospital, CT
February 21, 2013	"Tools to Assess IUFD and Recurrent Pregnancy Loss." Montefiore Medical Center, Bronx, NY
February 21, 2013	"Angry Gorillas, Knives and Trophoblast Inclusions: Things that Hide in Plain Sight." Montefiore Medical Center, Bronx, NY
March 20, 2013	"The next step for prenatal surveillance: Estimated Placental Volume." Webinar. Fetal Medicine Foundation USA, Dayton, OH
April 4, 2013	"Trophoblast Inclusions as a Predictor of Autism Risk." Women's Health Research at Yale, New Haven, CT
May 31, 2013	"The Value of Placental Pathology for the Ob and MFM Specialist." Women's Hospital, Houston, TX
June 5, 2013	"Trophoblast Inclusions as a Predictor of Autism Risk." Department Obstetrics and Gynecology, New York University Medical Center, New York, NY
June 17, 2013	"Trophoblast Inclusions as a Predictor of Autism Risk." Connecticut Center for Child Development, Milford, CT
June 18, 2013	"Trophoblast Inclusions as a Predictor of Autism Risk." Department of Obstetrics, Gynecology, Columbia University Medical Center, New York, NY
July 1, 2013	"Tools to Assess Implantation Failure and Recurrent Pregnancy Loss" London Women's Clinic, London, UK
July 2, 2013	"Behind Every Healthy Baby is a Healthy Placenta." University of Manchester, UK
July 5, 2013	"Tools to Assess Intrauterine Fetal Demise and Recurrent Pregnancy Loss." Dept of Maternal Fetal Medicine, The Harris Birthright Centre, King's College Hospital, London, UK
July 5, 2013	"PP13 (Galectin 13) Mediated Zones of Necrosis Diverts the Maternal Immune Response Away from the Decidual Spiral Arterioles." Department of Obstetrics, Gynecology, Women's Health, Kings College, London, UK
July 6, 2013	"The next step for prenatal surveillance: Estimated Placental Volume." Harris Birthright Department, Fetal Medicine Foundation, London, UK
July 12, 2013	"The next step for prenatal surveillance: Estimated Placental Volume." Division of Women's Health, School of Medicine, King's College, London, UK

September 4, 2013	"Trophoblast Inclusions as a Predictor of Autism Risk." Department of Obstetrics and Gynecology, Lenox Hill Hospital, New York, NY
November 1, 2013	"Trophoblast Inclusions as a Predictor of Autism Risk." Department of Child and Adolescent Psychiatry, NYU Medical Center, New York, NY
November 18, 2013	"Trophoblast Inclusions as a Predictor of Autism Risk." Obstetrics Gynecology & Menopause Physicians, New Haven, CT
November 20, 2013	"Trophoblast Inclusions as a Predictor of Autism Risk." Fordham University, New York, NY
November 21, 2013	"Trophoblast Inclusions as a Predictor of Autism Risk." Obstetrics-Gynecology and Infertility Group, New Haven, CT
December 5, 2013	"Trophoblast Inclusions as a Predictor of Autism Risk." Associated Women's Health Specialists, Waterbury, CT
January 13, 2014	"Trophoblast Inclusions as a Predictor of Autism Risk." Coastal Ob/Gyn, CT
January 15, 2014	"Trophoblast Inclusions as a Predictor of Autism Risk." Obstetrics and Gynecology, Greenwich, CT
February 27, 2014	"Nipping autism in the bud." LEAP honored guest speaker, New Haven, CT
May 15, 2014	"Tools to Assess Implantation Failure and Recurrent Pregnancy Loss", Atlanta REI Society, Atlanta, GA
May 23, 2014	"The Value of Placental Pathology for the MFM Specialist." Fellows Lecture, Department of Obstetrics and Gynecology, Tufts Medical Center, Boston, MA
May 23, 2014	"Trophoblast Inclusions as a Predictor of Autism Risk." Mother Infant Research Institute (MIRI) research seminar, Department of Obstetrics and Gynecology, Tufts Medical Center, Boston, MA
June 13, 2014	"Behind Every Healthy Baby is a Healthy Placenta." Department of Obstetrics and Gynecology, University of Southern California Medical Center, Los Angeles, CA
June 13, 2014	"The next step for prenatal surveillance: Estimated Placental Volume." Division of Maternal Fetal Medicine, University of Southern California Medical Center, Los Angeles, CA
June 13, 2014	"Trophoblast Inclusions as a Predictor of Autism Risk." Division of Maternal Fetal Medicine, University of Southern California Medical Center, Los Angeles, CA
June 26, 2014	"Tools to Assess Implantation Failure and Recurrent Pregnancy Loss." NewLife Clinic, Epsom, Surrey, United Kingdom

July 15, 2014	“Trophoblast Inclusions as a Predictor of Autism Risk.” Department of Obstetrics and Gynecology, Greenwich Hospital, Greenwich, CT
September 3, 2014	“Trophoblast Inclusions as a Predictor of Autism Risk.” Department of Pediatrics, Greenwich Hospital, Greenwich, CT
September 12, 2014	“Trophoblast Inclusions as a Predictor of Autism Risk.” Department of Statistics, Yale University, New Haven, CT
October 20, 2014	“Implantation and placentation.” Reproductive Biology, New York University, New York, NY
October 30, 2014	“Trophoblast Inclusions as a Predictor of Autism Risk.” Department of Obstetrics and Gynecology, Brown University, Providence, RI
October 30, 2014	“Trophoblast Inclusions as a Predictor of Autism Risk.” Department of Pediatrics, Women and Infants Hospital, Providence, RI
November 5, 2014	“Trophoblast Inclusions as a Predictor of Autism Risk.” Department of Economics, Claremont College, Claremont, CA
November 7, 2014	“Tools to Assess Implantation Failure and Recurrent Pregnancy Loss”, California Fertility Partners, Los Angeles, CA
November 11, 2014	“The Value of Placental Pathology for the MFM Specialist.” Grand Rounds, Waterbury Hospital, Waterbury, CT
November 13, 2014	“Trophoblast Inclusions as a Predictor of Autism Risk.” Child Psychiatry Branch, National Institutes of Mental Health, NIH, Bethesda, MD
February 7, 2015	“Behind Every Healthy Baby is a Healthy Placenta.” Women’s Hospital Clinical Symposium, Houston, TX
February 8, 2015	“Tools to Assess Implantation Failure and Recurrent Pregnancy Loss” Women’s Hospital Clinical Symposium, Houston, TX
February 27, 2015	“Trophoblast Inclusions as a Predictor of Autism Risk.” Department of Obstetrics and Gynecology, Stamford Hospital, Stamford, CT
March 19, 2015	“The pelvis skull conflict: why trophoblast inclusions are a marker of autism and may be the evolutionary basis of human intelligence.” International Society for Evolution, Medicine, and Public Health, Arizona State University, Tempe, AZ
March 26, 2015	“Trophoblast Inclusions as a Predictor of Autism Risk.” PA Chapter American Academy of Pediatricians Leadership Meeting, Frazer, PA

April 16, 2015	"Trophoblast Inclusions as a Predictor of Autism Risk." Department of Neurology, Columbia University, New York, NY
April 27, 2015	"The next step for prenatal surveillance: Estimated Placental Volume." The Human Placenta Project, National Institutes of Health, Bethesda, MD
June 27, 2015	"The pelvis skull conflict: why trophoblast inclusions are a marker of autism and may be the evolutionary basis of human intelligence." Foo Camp, Googleplex, Mountainview, CA
August 3, 2015	"Trophoblast Inclusions as a Predictor of Autism Risk." David Nathan Meyerson Foundation, Dallas, TX
November 10, 2015	"Tools to Assess IUFD and Recurrent Pregnancy Loss." Department of Obstetrics and Gynecology, University of Vermont, Burlington, VT
November 10, 2015	"The next step for prenatal surveillance: Estimated Placental Volume." Department of Obstetrics and Gynecology, University of Vermont, Burlington, VT
November 17, 2015	"Tools to Assess IUFD and Recurrent Pregnancy Loss." Department of Obstetrics and Gynecology, Wayne State School of Medicine, Detroit, MI.
November 17, 2015	"Trophoblast PP13 Expression: Role in Normal and Abnormal Trophoblast Invasion. First Trimester Marker for Preeclampsia." Department of Obstetrics and Gynecology, Wayne State School of Medicine, Detroit, MI.
November 17, 2015	"Is Autism the Biological Basis of Human Intelligence?" Perinatology Research Branch (PRB), National Institutes of Health, Wayne State School of Medicine, Detroit, MI.
November 19, 2015	"The next step for prenatal surveillance: Estimated Placental Volume." Center for Childhood Obesity Research, Human Development & Family Studies, Penn State University, State College, PA
November 20, 2015	"The next step for prenatal surveillance: Estimated Placental Volume." Department of Obstetrics and Gynecology, Geisinger Health System, Danville, PA
January 4, 2016	"Trophoblast Inclusions as a Predictor of Autism Risk." Department of Obstetrics and Gynecology Grand Rounds, Danbury Hospital, Danbury, CT
March 8, 2016	"Trophoblast Inclusions as a Predictor of Autism Risk." Department of Obstetrics and Gynecology Grand Rounds, St. Vincent's Hospital, Bridgeport, CT
April 3, 2016	"Is Autism the Biological Basis of Human Intelligence?" Bar-Ilan University, Safed Medical Center, Safed, Israel
April 5, 2016	"Is Autism the Biological Basis of Human Intelligence?" Wolfson Medical Center, Tel Aviv, Israel

April 5, 2016	"Is Autism the Biological Basis of Human Intelligence?" HyLabs, Rehovot, Israel
April 6, 2016	"Is Autism the Biological Basis of Human Intelligence?" Dept. of Genetics, The Inst. of Life Sciences, Hebrew University, Jerusalem, Israel
April 10, 2016	"Is Autism the Biological Basis of Human Intelligence?" Weizmann Institute, Rehovot, Israel
May 6, 2016	"Trophoblast Inclusions as a Predictor of Autism Risk." Department of Pediatrics Grand Rounds, Danbury Hospital, Danbury, CT
May 10 2016	"Trophoblast Inclusions as a Predictor of Autism Risk." Applied Behavioral Strategies, Woodbridge, CT
September 28, 2016	"Is Autism the Biological Basis of Human Intelligence?" Department of Obstetrics and Gynecology, New York University School of Medicine, New York, NY
November 11, 2016	"Tools to Assess Implantation Failure and Recurrent Pregnancy Loss" Southern California Reproductive Center, Beverly Hills, CA
November 11, 2016	"Tools to Assess Implantation Failure and Recurrent Pregnancy Loss" California Fertility Partners, Los Angeles, CA
April 3, 2017	"The next step for prenatal surveillance: Estimated Placental Volume." Department of Obstetrics and Gynecology, Danbury Hospital, Danbury, CT
November 14, 2017	"The Serotonin Highway in the Human Placenta: Serotonin Transport from Mother to Fetus." Keystone Symposia, Serotonin Beyond the Brain, Park City, UT
December 5, 2017	"Is Autism the Biological Basis of Human Intelligence?" Department of Medicine Grand Rounds, Saint Mary's Hospital, Waterbury, CT
February 27, 2018	"Tools to Assess Implantation Failure and Recurrent Pregnancy Loss" Reproductive Biology Associates, Atlanta, GA
February 28, 2018	"Tools to Assess Implantation Failure and Recurrent Pregnancy Loss" Servy Massey Fertility Institute, Atlanta, GA
March 1, 2018	"Tools to Assess Implantation Failure and Recurrent Pregnancy Loss" Georgia Reproductive Associates, Atlanta, GA
March 15, 2018	"The Role of Placental Serotonin Transport in the Development of Autism" Wolfson Medical Center, Tel Aviv, Israel
March 15, 2018	"Tools to Assess Implantation Failure and Recurrent Pregnancy Loss" Tel Aviv Sourasky Medical Center, Lis Maternity and Women Health Hospital, Tel Aviv, Israel

March 20, 2018	“The Serotonin Highway in the Human Placenta: Serotonin Transport from Mother to Fetus” Hadassah Medical Center, Mt. Scopus, Jerusalem, Israel
June 21, 2018	“Is Autism the Biological Basis of Human Intelligence?” Reproductive Genetics Forum, Northwestern Reproductive Genetics, Reprogenetics Research, Chicago, IL
August 23, 2018	“Tools to Assess Implantation Failure and Recurrent Pregnancy Loss” Department of Obstetrics and Gynecology, Northwestern University Medical Center, Chicago, IL
December 3, 2018	“Tools to Assess Implantation Failure and Recurrent Pregnancy Loss” Department of Obstetrics and Gynecology, Landspítali University Hospital, Reykjavik, Iceland
January 30, 2019	“Serotonin, Autism and Intelligence” Department of Ecology and Evolutionary Biology, Yale University, New Haven, CT
March 4, 2019	“The Serotonin Highway in the Human Placenta: Serotonin Transport from Mother to Fetus” B’nai Zion Medical Center, Haifa, Israel
March 5, 2019	“Tools to Assess IUFD and Recurrent Pregnancy Loss” Keynote Speaker, Israeli Society of Ob/Gyn, Tel Aviv, Israel
March 6, 2019	“The next step for prenatal surveillance: Estimated Placental Volume.” Department of Obstetrics and Gynecology, Wolfson Medical Center, Tel Aviv, Israel
March 27, 2019	“Tools to Assess Implantation Failure and Recurrent Pregnancy Loss” Department of Obstetrics and Gynecology Grand Rounds, Rush Medical Center, Chicago, IL
June 19, 2019	“Tools to Assess IUFD and Recurrent Pregnancy Loss” Star Legacy Foundation, Minneapolis, MN
December 5, 2019	“Placental Examination to Assess Early and Late Recurrent Pregnancy Loss” 4 th World Congress on Recurrent Pregnancy Loss, Jerusalem, Israel
December 6, 2019	“Workshop: Evaluation of the Placenta in Pregnancy Loss” 4 th World Congress on Recurrent Pregnancy Loss, Jerusalem, Israel
December 8, 2019	“Serotonin, Autism and Intelligence” Carmel Medical Center, Haifa, Israel
December 8, 2019	“Placental Examination to Assess Early and Late Pregnancy Loss” B’nai Zion Medical Center, Haifa, Israel
December 9, 2019	“Serotonin, Autism, Intelligence, Pregnancy Loss and the Placenta” Department of Obstetrics and Gynecology, Wolfson Medical Center, Tel Aviv, Israel

February 3, 2020	“Clinical approach to recurrent implantation failure: evidence-based evaluation of the endometrium” Division of Reproductive Endocrinology and Infertility, Department of Obstetrics, Gynecology and Reproductive Sciences, Yale University School of Medicine, New Haven, CT
June 9, 2020	“Trophoblast Inclusions as a Marker of Genetic Abnormality in Cases of Euploid Pregnancy Loss” Advanced IVF Institute, Park Ridge, IL
June 24, 2020	“Trophoblast Inclusions as Placental Markers of Adverse Pregnancy and Child Developmental Outcomes: A Role for Serotonin?”, Department of Psychiatry, Columbia University, New York, NY
July 18, 2020	“Trophoblast Inclusions: A Marker of Autism Spectrum Disorder (ASD)”, OPEN Autism Symposium, Bangalore, India
July 20, 2020	“Evaluation of the Placenta in Pregnancy Loss” International Conference on Group B Strep, Pomona, CA
July 24, 2020	“Is Autism the Biological Basis of Human Intelligence?”, Grand Rounds, Greenwich Hospital, Greenwich, CT
August 11, 2020	“Trophoblast Inclusions and Pregnancy Loss” Clinical Case Conference, Department of Medical Genetics, Yale University School of Medicine, New Haven, CT
August 21, 2020	“Trophoblast Inclusions: A Marker of Autism Spectrum Disorder (ASD)”, OPEN Autism Symposium, Special Interest Group, INSAR Virtual Conference
September 21, 2020	“The Next Step for Prenatal Surveillance: Estimated Placental Volume (EPV)”, Stanford Placenta Club, Department of Obstetrics and Gynecology, Stanford University School of Medicine, Pal Alto, CA
October 9, 2020	“Is Autism the Biological Basis of Human Intelligence?”, Grand Rounds, C.S. Mott Center for Human Growth and Development, Wayne State University, Detroit, MI
January 12, 2021	“Placental Examination to Assess Early Recurrent Pregnancy Loss” Grand Rounds, Boston IVF, Boston, MA
March 24, 2021	“The Importance of Placental Examination for You and Your Patient” Grand Rounds, Department of Obstetrics and Gynecology, Divisions of Specialists in General Obstetrics & Gynecology, Midwifery, & Ultrasound, Morsani College of Medicine, University of South Florida, Tampa, FL
April 30, 2021	“The Next Step for Prenatal Surveillance: Estimated Placental Volume (EPV)”, Department of Obstetrics and Gynecology, University of British Columbia, Vancouver, BC, Canada

May 4, 2021	“The Next Step for Prenatal Surveillance: Estimated Placental Volume (EPV)”, Department of Obstetrics and Gynecology, Mt. Sinai Medical Center, New York, NY
May, 22, 2021	“Diagnosis and Prevention of Stillbirth.” Stillbirth Diagnosis and Prevention Symposium, Yale University, New Haven, CT
August 27, 2021	“The next step for prenatal surveillance: Estimated Placental Volume.” West Virginia Prenatal Complication Task Force
September 9, 2021	“Tools to Assess Implantation Failure and Recurrent Pregnancy Loss” Division of Reproductive Endocrinology, Department of Obstetrics and Gynecology, UConn and Brown joint lecture
September 12, 2021	“Causes of Unexplained Pregnancy Loss” 5th World Congress on Recurrent Pregnancy Loss, Jerusalem, Israel
September 15, 2021	“Tools to Assess IUFD and Recurrent Pregnancy Loss”, Grand Rounds, University of Rochester, Rochester, NY
September 29, 2021	“The Importance of Placental Examination for You and Your Patient” Grand Rounds, Department of Obstetrics and Gynecology, Lenox Hill Hospital, New York, NY
November 1, 2021	“The Importance of Placental Examination for You and Your Patient.” Grand Rounds, Mayo Clinic, Rochester, MN
December 15, 2021	“The Importance of Placental Examination for You and Your Patient.” National Advocates for Pregnant Women, New York, NY
January 5, 2022	“The Importance of Placental Examination for You and Your Patient” Grand Rounds, Department of Obstetrics and Gynecology, Staten Island University Hospital – Northwell, Staten Island, NY
March 24, 2022	“The Importance of Placental Examination for You and Your Patient” Grand Rounds, Department of Obstetrics and Gynecology, University of Rochester, Rochester, NY
May 22, 2022	“Estimated Placenta Volume: Saving a Life is as Easy as 1, 2, 3” PUSH for Empowered Pregnancy 2022 Stillbirth Prevention Symposium, New York, NY
June 17, 2022	“Practical tools to optimize Estimated Placental Volume (EPV) Measurements.” Rochester Regional Health, Rochester, NY
July 26, 2022	“Tools to Assess Stillbirth and Recurrent Pregnancy Loss.” International Stillbirth Alliance Board Member’s Lecture Series, virtual lecture.
October 7, 2022	“Endometrial Receptivity: Past, Present, Future.” First IVF, Dublin, Ireland

October 14, 2022	“The Importance of Placental Examination for You and Your Patient.” West Virginia Perinatal Summit, Roanoke, WV.
October 15, 2022	“Preventing Stillbirth.” Stillbirth March on Washington, Washington, DC.
October 18, 2022	“The Importance of Placental Examination for You and Your Patient.” Department of Ob/Gyn, Greenwich Hospital, Greenwich, CT
November 4, 2022	“The Future of Endometrial Receptivity Testing.” Fertilitytwopointzero.com Future Symposium, Stillorgan, Ireland
February 5, 2023	“Tools to Assess Recurrent Pregnancy Loss.” 6th World Congress on Recurrent Pregnancy Loss, Bangkok, Thailand
February 7, 2023	“Tools to Assess Implantation Failure.” Division of Reproductive Endocrinology, NYU Medical Center, New York, NY
March 6, 2023	“Practical Application of Estimated Placental Volume (EPV),” Department of Obstetrics and Gynecology, Mt. Sinai Medical Center, New York, NY
May 10, 2023	“Tools to Assess Implantation Failure.” NYU Langone Long Island Reproductive Specialists of New York Mineola, NY
June 7, 2023	“The Importance of Placental Examination for You and Your Patient.” CAMC Institute for Academic Medicine, Charleston, WV
July 28, 2023	“Tools to Assess Stillbirth and Recurrent Pregnancy Loss.” Department of Obstetrics and Gynecology, Robert Wood Johnson Medical School, Rutgers University, New Brunswick, NJ
November 14, 2023	“The next step for prenatal surveillance: Estimated Placental Volume.” Australia’s University of Queensland Stillbirth Centre of Research Excellence, Australia.

International Workshops Organized:

October 10, 1988	“Trophoblast Differentiation in Tissue Culture,” 11th Rochester Trophoblast Conference, Rochester, NY
September 28, 1989	“Trophoblast Cells in Culture,” III European Placental Group Meeting, Paris, France
October 2, 1992	“Models of Implantation: Trophoblast Endometrium Interactions,” 12th Rochester Trophoblast Conference, Rochester, NY
September 10, 2008	“PP13 Regulation of Trophoblast Invasion.” Placenta Group Meeting, Graz, Austria

September 8, 2011	“Role of PP13 in trophoblast invasion and preeclampsia.” European Placental Group, Geilo, Norway
May 22, 2021	Stillbirth Diagnosis and Prevention Symposium, Yale University, New Haven, CT

Exhibitions

April 22, 2014	“Only in a woman” Slifka Center, Yale University, New Haven, CT
October 29, 2014	“Only in a woman” The Warren Alpert Medical School, Brown University, Providence, RI
May 12, 2017–July 7, 2017	“Only in a woman” National Institutes of Health, Bethesda, MD

Publications:

Original Papers:

1. **Kliman HJ** and Steck TL. (1980) Association of glyceraldehyde-3-phosphate dehydrogenase with the human red cell membrane. J. B. Chem. 255: 6314-6321.
2. Ballas SK, **Kliman HJ**, and Smith ED. (1985) Glyceraldehyde-3-phosphate dehydrogenase of rat erythrocytes has no membrane component. Biochem Biophys Acta 831: 142-149.
3. Soto EA, **Kliman HJ**, Strauss JF III and Paavola L. (1986) Gonadotrophin-induced changes in morphology of human granulosa cells in culture. Biol Reprod 34: 559-569.
4. **Kliman HJ**, Nestler JE, Sermasi E, Sanger JM, and Strauss JF III. (1986) Purification, characterization and *in vitro* differentiation of cytotrophoblasts from human term placentae. Endocrinol. 118: 1567-1582.
5. Feinman MA, **Kliman HJ**, Caltabiano S, and Strauss JF III. (1986) 8-Bromo-3'5' AMP stimulates the endocrine activity of human cytotrophoblasts in culture. J Clin End Metab 63: 1211-1217.
6. Ulloa-Aguirre A., August AM, Golos, TG, Kao L-C, Sukuragi N, **Kliman HJ**, and Strauss, JF III (1987). 8-Bromo-3'5' adenosine monophosphate regulates expression of chorionic gonadotropin and fibronectin in human cytotrophoblasts. J. Clin. End. Metab., 64: 1002-1009.
7. Feinman MA, **Kliman HJ**, and Main EK. (1987) HLA antigen-expression and induction by gamma-interferon in cultured trophoblasts. Am. J. Obstet. Gynecol. 157: 1429-34.
8. **Kliman HJ**, Feinman MA and Strauss JF III. (1987) Differentiation of human cytotrophoblasts into syncytiotrophoblasts in culture. Trophoblast Research 2: 407-421.
9. Roy-Choudhury, S., Sen-Majumdar A., Murthy U, Mishra VS, **Kliman HJ**, Nestler JE, Strauss JF III, and Das M. (1988). Biosynthesis and turnover of a 34,000 molecular weight protein growth factor in human cytotrophoblasts. Eur J. Biochem. 172: 777-783.
10. Kao L-C, Caltabiano S, Wu S, Strauss JF III, **Kliman HJ**. (1988) The human villous cytotrophoblast: Interaction with extracellular matrix proteins, endocrine function, and

- cytoplasmic differentiation in the absence of syncytium formation. *Developmental Biol.* 130: 693-702.
11. Nulsen, JC, Silavin S. L, Kao L-C, Ringler GE, **Kliman HJ**, and Strauss JF III (1989) Control of the steroidogenic machinery of the human trophoblasts by cyclic AMP. *J. Reprod Fert, Suppl.*, 37: 147-153.
 12. **Kliman HJ**, Coutifaris C, Babalola GO, Soto EA, Kao L-C, Queenan JT, Feinberg RF, Strauss JF III. (1989) The human trophoblast: Homotypic and heterotypic cell-cell interactions. *Prog. Clin. Biol. Res.* 294: 425-34.
 13. Feinberg RF, Kao L-C, Haimowitz JE, Queenan JT Jr, Wun T-C Strauss JF III, **Kliman HJ**. (1989) Plasminogen activator inhibitors types 1 and 2 in human trophoblasts: PAI-1 is a marker of invading trophoblasts. *Laboratory Investigation*, 61: 20-26.
 14. Babalola, GO, Coutifaris C, Soto EA, **Kliman HJ**, Shuman H, Strauss JF III. (1990) Aggregation of dispersed human cytotrophoblastic cells: lessons relevant to the morphogenesis of the placenta. *Developmental Biology*, 137: 100-108.
 15. **Kliman HJ**, Feinberg RF. (1990) Human trophoblast-extracellular matrix (ECM) interactions in vitro: ECM thickness modulates morphology and proteolytic activity. *Proc Natl Acad Sci U S A*, 87:3057-3061.
 16. **Kliman HJ**, Feinberg RF, Haimowitz JE. (1990) Interactions between human term trophoblasts and endometrium *in vitro*. *Colloques INSERM*, 199: 3-9.
 17. **Kliman HJ**, Feinberg RF, Haimowitz JE. (1990) Human trophoblast-endometrial interactions in an *in vitro* suspension culture system. *Placenta*, 11:349-367.
 18. **Kliman HJ**. (1990) Three steps to knowledge. *Surgical Pathology*, 3:161.
 19. Feinberg RF, **Kliman HJ**, Lockwood CJ. (1991) Oncofetal fibronectin: A trophoblast “glue” for human implantation? *Am J Pathology*, 138:537-543.
 20. **Kliman HJ**, Strauss JF III, Kao L-C, Caltabiano S, Wu S. (1991) Cytoplasmic and biochemical differentiation of the human villous cytotrophoblast in the absence of syncytium formation. *Trophoblast Research* 5:297-309.
 21. Feinberg RF, **Kliman HJ**, Cohen AW (1991) Preeclampsia, trisomy 13, and the placental bed. *Obstet Gynecol* 78:505-8.
 22. Lavi E, Montone KT, Rorke LB, **Kliman HJ**. (1991) Fetal akinesia deformation sequence (Pena-Shokeir phenotype) associated with cocaine induced intrauterine brain damage. *Neurology* 41:1467-8.
 23. Coutifaris C, Babalola GO, Abisogun AO, Kao LC, Chin U, Vadillo OF, Osheroff J, **Kliman HJ**, Strauss JF3 (1991) In vitro systems for the study of human trophoblast implantation. *Ann N Y Acad Sci* 622:191-201
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39. **Kliman HJ**. WURD, 900 AM, Information is the Best Medicine, “Is Autism the Biological Basis of Human Intelligence?”, 9:00 am, Saturday, 12Dec15.
40. **Kliman HJ**. Stillbirth Matters podcast, Star Legacy Foundation, Eden Prairie, MN, “How the Placenta Reveals the Cause of Pregnancy Loss”, 11:00 am, Monday, January 29, 2018.
41. **Kliman HJ**. Dr. Ivy Love Margulies Shattered Conception Podcast, Los Angeles, CA, “The Placenta and What It Tells Us with Harvey Kliman, M.D., Ph.D”, March 23, 2020
42. **Kliman HJ**. Dr. Aimee Eyvazzadeh, Egg Whisperer Show Podcast, Los Angeles, CA, “Clinical Approach to Recurrent Implantation Failure: Evidence-Based Evaluation of the Endometrium with Harvey Kliman, M.D., Ph.D”, April 24, 2021
43. **Kliman HJ**. NPR Radiolab, WNYC, NY, “[Everybody’s Got One](#)”, August 20, 2021
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46. **Kliman HJ**. NPR All Things Considered, “[Losing a pregnancy could land you in jail in post-Roe America](#),” Robert Baldwin III, July 3, 2022:27 AM ET
47. **Kliman HJ**. Sacred Birth Circle with Ana Vick, “Stillbirth: diagnosis and prevention.” October 24, 2022.
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Abstracts (Selected Presentations and Unpublished Work):

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