

# CURRICULUM VITAE

## Kenneth Ward, MD

### I. PERSONAL DATA

Name: Kenneth Ward  
Birth Date: October 18, 1957  
Birthplace: Mount Vernon, New York  
Citizenship: United States  
Marital Status: Widower, three children

### II. EDUCATION

B.S. University of Florida  
Gainesville, Florida, 1979  
Junior Honors Medical Program  
Major-Basic Biological & Medical Sciences

M.D. University of Florida College of Medicine  
Gainesville, Florida, 1982  
Class Rank: 8th/Class of 124

Residency: Obstetrics and Gynecology  
University of Utah Affiliated Hospitals  
Salt Lake City, Utah  
July 1982 - June 1984

Obstetrics and Gynecology  
George Washington University  
Washington, DC  
July 1984 - June 1987

Fellowship: Maternal-Fetal Medicine and Medical Genetics  
University of Utah Affiliated Hospitals  
Salt Lake City, Utah  
Research in Molecular Biology and Genetics  
Major Projects: Genetics of Severe Pre-eclampsia,  
Neurofibromatosis Testing Using Linked DNA Markers, and  
Chromosome 8 (Multiple Exostoses) Mapping Study  
July 1987- June 1990

Board Certification: National Board Diplomate, 1983, #265843  
Medical Genetics - 1990, #870751  
Obstetrics and Gynecology - 1991, #28853  
Recertified annually through present  
Maternal Fetal Medicine - 1992 #873374M  
Recertified annually through present  
Molecular Genetics - 1993, #93312  
Recertified annually through present

Licenses: State of Utah  
#170113-1205, Physician & Surgeon  
#170113-8905, Physician & Surgeon Controlled Substance

### III. PROFESSIONAL EXPERIENCE

Appointments: Instructor, University of Utah  
Department of Obstetrics and Gynecology  
1988-1990

Assistant Professor, University of Utah  
Department of Obstetrics and Gynecology  
1990 to 1994

Adjunct Assistant Professor, University of Utah  
Department of Human Genetics  
1993 to 1995

Investigator, University of Utah  
Eccles Program in Human Molecular Biology and Genetics  
1993 to 1998

Associate Professor, University of Utah  
Department of Obstetrics and Gynecology  
1994 to 1998  
(with tenure 1995 to 1998)

Adjunct Associate Professor, University of Utah  
Department of Human Genetics  
1995 to 1999

Chief, Division of Reproductive Genetics  
University of Utah  
Department of Obstetrics and Gynecology  
1996 to 2003

Professor, University of Utah  
Department of Obstetrics and Gynecology  
(with tenure) July 1998 to 2003

Adjunct Professor, University of Utah  
Department of Human Genetics  
1999 to 2003

Professor and Chair  
University of Hawaii  
John A. Burns School of Medicine  
Department of Obstetrics, Gynecology &  
Women's Health (with tenure)  
2003 to 2008

Biotechnology Experience: EmerGen, Inc.  
Salt Lake City, Utah  
Chief Scientist, 1998 to 2003  
President/Acting Chief Executive Officer, March 2000 –  
March 2002  
Chair, Clinical/Scientific Advisory Board, 2001-2003  
Director, 2000 to 2003

Axial Biotech, Inc.  
Salt Lake City, Utah  
Founder and Chairman of the Board, CSO  
2003 to present

Taueret Laboratories, L.L.C.  
Salt Lake City, Utah  
Founder, President, Laboratory Director  
2003 to present

Juneau Biosciences, L.L.C.  
Salt Lake City, Utah  
Founder and CEO  
2006 to present

Inception DX , L.L.C.  
Salt Lake City, Utah  
Founder and Laboratory Director  
2017 to present

Consultant Services:

Affiliated Genetics  
Founder and Molecular Genetics Consultant  
Salt Lake City, Utah  
1995 to 2017

Tute Genomics  
Salt Lake City, Utah  
2013 to 2016

Owlet Baby Care  
Medical Advisor  
Lehi, Utah  
Jan 2017 to present

Professional Committees:

Mountain States Regional Genetics Services Network  
Molecular Genetics Committee, 1988 to 2003, Chair,  
1989 to 1991  
Steering and Planning Committee, 1989 to 1991  
Prenatal Diagnosis Committee, 1989 to 2003  
Council of Regional Genetic Networks Ethics Committee,  
1992 to 1995

Advisory Committee, Pregnancy Risk Line, Utah Department of  
Health, 1992 to 2003

Scientific Review Committee  
National Neurofibromatosis Foundation  
1993

Genetics Advisory Committee, Utah Department of Health, 1994 to  
1997

Member, Adverse Pregnancy Outcome Study Group  
Foundation for Developmental and Medical Genetics  
1994 to 1996

American College of Medical Genetics, Working Group on Factor  
V Leiden, 1998 to 1999

North American Society for the Study of Hypertension in  
Pregnancy, Board of Directors - 1999-2001

American College of Obstetricians and Gynecologists Committee  
on Genetics, 2001 to 2003

Ad hoc Reviewer

NIH Clinical Cardiovascular Science (CCVS) Study Section  
2002

Human Embryology and Development 1 (HED1) Study  
Section 2002

Preterm Labor Genomic and Proteomics, Special Study  
Section, 2004

Pregnancy and Neonatology (PN) Study Section, 2005, 2006, 2007  
to 2015

March of Dimes Hawaii Chapter  
Kapiolani Medical Center for Women & Children  
Second Annual Prematurity Summit, 2005  
Program Chair

University of Hawaii, Clinical Research Center  
Scientific Advisory Committee, 2005-2007

American Board of Obstetrics & Gynecology  
Examiner in Obstetrics, 2005 - 2007

University of Hawaii, Clinical Research Center  
RCMI Clinical Research Advisory Committee (RCAC)  
2005 – 2007

Preeclampsia Foundation- Patient Registry, Scientific Advisory  
Board, 2013 to present

Editorial Experience:

Associate Editor  
Reproductive Genetics Section, American Journal of Medical  
Genetics, 1994 to 1999

Editorial Advisory Board, Molecular Genetics for American  
Journal of Obstetrics and Gynecology, 2000 to 2012

Referee:

American Journal of Human Genetics  
American Journal of Medical Genetics  
American Journal of Obstetrics and Gynecology  
Fertility and Sterility  
Genomics  
Human Molecular Genetics  
Hypertension  
Journal of Biological Chemistry  
Journal of Reproductive Immunology  
Journal of the Society of Gynecologic Investigation

Lancet  
Molecular Diagnostics  
Nature Communications  
Nature Genetics  
Nature Medicine  
Nature Scientific Reports  
New England Journal of Medicine  
Obstetrics and Gynecology  
PLOS  
Prenatal Diagnosis

Past Grants/Contracts:

Principal Investigator  
“Pacific Research Center for Early Human Development”  
NIH/NCRR  
Sept 2004 – Sept 2009  
\$10,918,600

Co-Investigator  
“Genetic Determinants of Pelvic Floor Disorders”  
(Principal Investigator-Peggy A. Norton)  
National Institutes of Health  
Aug 2001-July 2004  
\$1,720,500

Contract  
"Cytokine Polymorphisms in PROM"  
National Institutes of Health Maternal-Fetal Medicine Network  
2002-2003  
\$50,000

"Angiotensinogen Variants and Adverse Pregnancy Outcomes"  
National Institutes of Health  
2-R01-HL-55812-05  
August 1999 - July 2003  
\$2,374,028

Principal Investigator  
"The Genetics of Preterm Labor"  
National Institutes of Health  
1-K24-HD-01315-01  
August 1999 - July 2003  
\$546,745

Contract (DNA Diagnostic Laboratory)  
Paternity Testing  
State of Utah, Office of Recovery Services  
July 1997 - June 2000  
\$1,200,000

Principal Investigator  
"Reproductive Genetics Center"  
Willard Eccles Foundation  
1998 - 2002  
\$800,000

Collaborator  
"Intrauterine Growth Restriction, Thrombophilia, and Placental  
Pathology" (Principal Investigator- Donna Dizon-Townson)  
Centers for Disease Control  
\$150,000

Principal Investigator  
"Angiotensinogen Variants and Adverse Pregnancy Outcomes"  
National Institutes of Health  
1 R01 HL55812-01  
August 1995 - July 1999  
\$2,193,080

Principal Investigator  
"Pregnancy Outcome in Women with the Factor V (Leiden)  
Mutation: A Prospective Study"  
March of Dimes Research Foundation  
June 1997 - May 1999  
\$91,459

Principal Investigator  
"Cloning the TAPVR-1 Gene"  
March of Dimes Research Foundation  
June 1997 - May 1999  
\$111,801

Co-Investigator  
"Characterization of Fetal Stem Cells for Transplantation"  
National Institutes of Health  
Number: 1 R01 HD32170-01  
August 1994 to July 1998  
\$ 1,086,684

Mentor  
AGOS Foundation Award  
Donna Dizon-Townson  
July 1996 - June 1999  
\$90,000

Principal Investigator  
"Perinatal Genetics Center"  
Willard Eccles Foundation  
November 1994 - October 1997  
\$750,000

Principal Investigator  
"Angiotensinogen in Human Placentation and the Pathogenesis of Preeclampsia"  
March of Dimes Research Foundation  
Number: 6-FY-95-0193  
April 1995 to March 1997  
\$79,000

Mentor  
Howard Hughes Medical Student Research Program  
Greg Eyre  
"Treft Syndrome - Linkage Analysis"  
July 1995 - June 1996  
\$24,000

Mentor  
ACOG/Ortho Academic Training Research Fellowship  
Donna Dizon-Townson  
July 1995 - June 1996  
\$30,000

Co-Principal Investigator  
"The Exostoses Genes: Their Role in Multiple Cartilaginous Exostoses and Chondrosarcoma"  
Shriners Hospitals Research Foundation  
January 1994 to January 1995  
\$ 110,000

Principal Investigator  
"Endothelial Nitric Oxide Synthase and Adverse Pregnancy Outcomes"  
RGRJ Venture Fund  
March 1994 to March 1995  
\$ 288,538



Sub-contract (DNA Diagnostic Lab)  
"Genetic Testing for Atypical Colonic Polyposis"  
National Cancer Institute  
Number: 5 R01 CA40641-10  
April 1994 to April 1996  
\$60,000

Sub-contract (DNA Diagnostic Lab)  
"Predictive DNA Testing for Breast Cancer"  
National Institutes of Health  
Number: 5 R01 CA63681  
June 1994 to July 1996  
\$ 97,000

Principal Investigator  
"Prenatal Gene Therapy"  
Willard Eccles Charitable Foundation  
July 1993 to June 1995  
\$ 259,000

Mentor  
Howard Hughes Medical Student Research Program  
Steve Bleyl  
"Familial Total Anomalous Pulmonary Venous Return: Linkage Study"  
July 1993 to June 1994  
\$23,000

Principal Investigator  
"The Predictive Value of Angiotension Genotypes"  
Myriad Genetics  
November 1993 to November 1994  
\$ 92,315

Co-Investigator  
"The Evaluation and Banking of Aborted Fetal Tissues"  
National Institute of Health #HD-92-10  
September 28, 1992 to September 27, 1994  
\$1,204,014

Berlex Scholar Award  
"The Genetics of Severe Pre-eclampsia"  
The Berlex Foundation, New York  
January 1, 1990 to December 31, 1999  
\$60,000

Co-Principal Investigator  
"Multiple Cartilaginous Exostoses: Linkage Analysis and Gene Mapping"  
Shriners Hospitals Research Foundation  
January 1, 1990 to December 31, 1993  
\$444,000

Principal Investigator  
"Development of a DNA Diagnostic Laboratory"  
Willard Eccles Charitable Foundation  
January 1, 1990 to December 31, 1992  
\$314,000

Principal Investigator  
Preimplantation Genetic Testing  
Biomedical Research Support Grant  
1990  
\$28,000

Principal Investigator  
"National Reference Laboratory for Neurofibromatosis DNA Linkage Testing"  
National Neurofibromatosis Foundation, New York  
July 1, 1989 to December 31, 1991  
\$35,000

Principal Investigator  
DNA Diagnostic Laboratory  
Intramural Funding, Equipment Grants  
November, 1988 to December, 1990  
\$64,000

Equipment Grants:

Utah Power and Light, 1993  
\$10,000

Katherine W. and Ezekiel R. Dumke, Jr. Foundation, 1993  
\$2,500

Dumke Family Foundation, 1993  
\$11,300

Silver Foundation, 1993  
\$20,000

Bonneville Land and Title Company 1994 - 1998  
\$12,000

Lawrence T. and Janet T. Dee Foundation, 1994 - 1997  
\$9,500

Fidelity Foundation, 1994  
\$10,000

Janet Q. Lawson Foundation  
1994, 1995, 1996, 1997, 1998, 1999, 2000  
\$115,000

Ralph Nye Charitable Foundation, 1994  
\$1,500

Joseph Butterworth Gift, 1994 - 1996  
\$4,500

McGillis Endowment, 1996-1999  
\$200,531

Katherine W. Dumke and Ezekiel R. Dumke, Jr. Foundation  
Grant, 1997  
\$8,000

Annie Taylor Dee Foundation, 1997  
\$4,000

Madsen Award, 1997  
\$24,830

#### IV. SCHOLASTIC HONORS

Phi Eta Sigma

Phi Beta Kappa

Alpha Omega Alpha

Donnegan Scholarship, 1981 University of Florida

Florida Ob-Gyn Society Award, 1982

Intern Teaching Award, 1983  
University of Utah School of Medicine

Footer Award, 1986. George Washington University

Senior Resident of the Year Award, 1986-87

George Washington University

Berlex Scholar, 1990

Ethicon, Junior Fellow Award, 1992

Prize Research Paper, American College of Obstetrics and Gynecology District Meeting, 1992

Searle-Richardson Award, American College of Obstetrics and Gynecology Annual Meeting, 1993

Golden Anniversary Prize for Distinguished Clinical Investigation, University of Utah School of Medicine Alumni Association, 1995

Two poster awards for research excellence, Annual meeting, Society of Perinatal Obstetricians, 1996

Poster award for research excellence, Annual meeting, Society of Perinatal Obstetricians, 1998

Selected as one of “The Best Doctors in America”, Peer Survey conducted by Woodward/White, 1998, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009

Award for Research Excellence, Annual meeting, Society for Maternal-Fetal Medicine, 2000

Second Place Scientific Paper, American College of Obstetrics And Gynecology Annual Meeting, 2005

Paper nominated for Hibbs Award – Scoliosis Research Society Annual Meeting, Sept. 2006

2009 Utah Innovation Award in Biotechnology/Pharmaceuticals for ScoliScore™ by Axial Biotech, Inc.

Orthopedics This Week Annual Spine Technology Awards “The Best Diagnostics and Imaging Technology of 2010”. Inventor(s): Kenneth Ward, M.D. and Axial Biotech (ScoliScore™ received the most votes of ANY submission to the Spine Technology Awards)

Paper nominated for Hibbs Award – Best Science Paper – Scoliosis Research Society Annual Meeting, Sept. 2010

V. ADMINISTRATIVE EXPERIENCE

Supervisor, Perinatal Genetic Counselors, University of Utah  
1988 to 2000

Founder and Director, University of Utah DNA Diagnostic Laboratory  
1988 to 2003  
CAP Certification - #22089-08  
CLIA Certification - #46D0679584  
AABB Certification - #130166

Director, Clinical Molecular Genetics Fellowship  
University of Utah School of Medicine  
1995 - 2003

Chief, Division of Reproductive Genetics  
Department of Obstetrics and Gynecology  
University of Utah School of Medicine  
1996 - 1998

Director, Reproductive Genetics Program  
University of Utah School of Medicine  
1998 - 2003

Professor and Chair  
University of Hawaii  
John A. Burns School of Medicine  
Department of Obstetrics, Gynecology &  
Women's Health  
2003 – 2007

Executive Medical Director  
Obstetrics and Gynecology  
Kapiolani Medical Specialists  
2003 – 2005

Medical Executive Committee  
Kapiolani Medical Center for Women & Children  
2004 – 2007

Program for Chiefs of Clinical Services  
Harvard School of Public Health  
January, 2005

Director Axial Biotech Clinical Laboratory  
2008 – 2012

Clinical Laboratory Director, Affiliated Genetics  
2012-2017

Clinical Laboratory Director Taueret Laboratories, LLC  
2017-present

CLIA certification - #46D1077919  
CAP LAP - #7207154  
California Certification - #CDS00800282  
New York Certification - #WARDK1  
Pennsylvania Certification - #34242  
Rhode Island Certification - #LCO00786

VI. PROFESSIONAL COMMUNITY ACTIVITIES

Delegate to American Medical Student Association (AMSA)  
National Convention, 1979

AMSA Chapter President, University of Florida, 1979-80

Student Representative to Curriculum Committee, 1978-79

Coordinator of Freshman Orientation for Class of 1983

Co-Chairman of College Council, 1978-79

Co-President of Medical School Class, 1981-82

Administrative Chief Resident, George Washington University, 1986-87

Utah Perinatal Association, Board of Directors, 1989-91

Hawaii Community Genetics, Advisory Board, 2003-present  
Chair 2003-2005

Hawaii State Birth Defects Program, Advisory Committee  
Hawaii Department of Health  
Honolulu, HI  
2003 – 2007

Hawaii State Infant Mortality Committee; 2004 – 2007

Founder and President – Lucina Foundation  
A non-profit 501c(3) medical research institute  
2005 – 2013

VII. UNIVERSITY COMMUNITY ACTIVITIES

Admission Committee, M.D./Ph.D. Program  
University of Utah School of Medicine  
1996 – 1999

University of Hawaii  
John A. Burns School of Medicine  
Executive Committee 2003 – 2008  
Interim Deans Management Team 2006 - 2007

University, Clinical, Education & Research Association  
(UCERA), Faculty Practice Plan  
Director 2003-2007  
Planning Committee 2003 – 2007  
Executive Committee 2004 – 2007  
Vice President, 2005 – 2007

John A. Burns School of Medicine  
Ad hoc LCME Committee Co-Chair  
2003 – 2004

#### VIII. PROFESSIONAL SOCIETIES

American Association for the Advancement of Science  
American College of Obstetrics and Gynecology, Fellow  
American College of Medical Genetics, Founding Fellow  
American College of Physician Executives  
American Heart Association - Hypertension Interest Group  
American Institute of Ultrasound in Medicine  
American Medical Association  
American Society of Human Genetics  
American Society for Reproductive Medicine  
Association of Professors of Gynecology and Obstetrics  
APGO Medical Education Foundation  
Association for Molecular Pathology  
The Council of University Chairs of Obstetric & Gynecology  
Hawaii Medical Association  
Honolulu County Medical Society

International Society for the Study of Hypertension in Pregnancy

Kennedy Institute of Bioethics

National Child Support Enforcement Association

North American Society for the Study of Hypertension in Pregnancy

Society for Gynecologic Investigation

Society for the Investigation of Early Pregnancy Loss

Society of Perinatal Obstetricians

Society of Maternal-Fetal Medicine

Utah Medical Association

#### IX. TEACHING RESPONSIBILITIES

Courses Taught:                      Biology 480 - Independent Research elective (3 students, 2 quarters, 1993-1994)

University of Utah, Medical School Lectures (Annual)  
1998-2003

Biochemistry - "Molecular Medicine"

Embryology - "Preimplantation Development and Twinning"

Organ Systems - "Reproductive Immunology"

Clinical OB/GYN Rotation - "Preeclampsia and Pregnancy Induced Hypertension"

MSI, MSII, and MSIV Research Electives (3-6 students per year)

HGEN 503 - Seminar in Human Genetics

OB 709 - Honors research project, four students per year

NURS 503 - Medical Genetics

University of Hawaii, Medical School Lectures 2004

Cell & Molecular Biology –

"Genetics of Cancer II: Colon

Cancer"; "Polycystic Ovary"

Master's Program in Clinical Research – 2004 - 2007

"Selecting a Research Topic"

"Ethics in Biomedical Research"

University of Hawaii, Medical School Lectures 2004 - 2007

"Polycystic Ovary Syndrome"

"Colon Cancer"



University of Hawaii, Medical School Lectures 2005  
“Triplet Repeat Disorders”  
“DNA Diagnosis”  
“Cancer Genetics”

University of Hawaii, Medical School Lectures 2006  
“Cystic Fibrosis”  
“Human Trisomies”  
“Genetics of Common Disease”

Mentor Responsibilities:

Undergraduate  
Mentor - Bioscience Undergraduate Research Program  
Matthew Leavitt, 1995-1996

Graduate Students Supervised  
Terry Morgan, M.D./Ph.D., 1993-1998  
Steve Bleyl, M.D./Ph.D., 1993-1999

Graduate  
Mentor - Howard Hughes Medical Student Fellowship  
Steve Bleyl, 1993-1994  
Mentor - Howard Hughes Medical Student Fellowship  
Greg Eyre, 1995-1996  
Thesis Committee  
Ginny Gobel, Ph.D. Nursing, 1992-1993  
Karthik Nadesan, Ph.D. Human Genetics Philosophy,  
1999-2000  
Graduate Student Committee  
Andreas Rohrwasser, Human Genetics, 1995-1998

Post-Doctoral  
Research mentor for Maternal Fetal Medicine Fellows  
Janice Byrne, M.D., 1991-1994  
Charlie Chambers, M.D., 1993-1994  
Donna Dizon, M.D., 1994-1997  
Bardett Fausett, M.D., 1998 - 2000  
Tracy Herrmann, Ph.D., 2000 - 2002  
XiuQuan Zhang, 2000 - 2003

Courses Developed:

Created and supervised new Fellowship in Clinical Molecular  
Genetics  
Elaine Lyon, Ph.D., 1993-1996  
Pinar Towdek, 2001 - 2003

Weekly Perinatal Genetics Clinic and Biweekly Prenatal Diagnosis  
Conference

Genetics Brown Bag – 2005  
“Common Trisomies”

Genetics Brown Bag – 2006  
“Triplet Repeat Disorders”

Genetics Brown Bag – 2007  
“Molecular Genetics”

## X. BIBLIOGRAPHY

### Scientific Publications

1. Scott JR, Branch DW, Kochenour NK, Ward K: Intravenous immunoglobulin treatment of pregnant patients with recurrent pregnancy loss caused by antiphospholipid antibodies and Rh immunization. Am J Obstet Gynecol, 1988; 159:1055-6.
2. Silva AJ, Ward K, White R: The genetics of mosaic methylation patterns in humans in nucleic acid methylation. UCLA Symposia, Wiley 1990.
3. Ward K, O’Connell P, Carey J, Leppert M, Jolley S, Plaetke R, Ogden B, White R: Diagnosis of neurofibromatosis 1 using tightly linked, flanking DNA markers. Am J Hum Genet 1990; 46(5):943-49.
4. Dean M, Amos JA, Lynch J, Romeo G, Devoto M, Ward K, Halley D, Oostra B, Finn PB, Ferrari M, Collins F, Iannuzzi M: Prenatal diagnosis and linkage disequilibrium with cystic fibrosis for markers surrounding D7S8. Hum Genet, May 1990.
5. Faye-Petersen O, Ward K, Carey JC, Knisely AS: Osteochondrodysplasia with rhizomelia, platyspondyly, callosal agenesis, thrombocytopenia, hydrocephalus, and hypertension. Am Amer J Med Genet 1991; 40(2):183-187.
6. Li Y, Bollag G, Clark R, Stevens J, Conroy L, Fults D, Ward K, Friedman E, Samowitz W, Robertson M, Bradley P, McCormick F, White R, Cawthon R: Somatic mutations in the neurofibromatosis 1 gene in human tumors. Cell 1992; 69:275-281.
7. Spirio L, Nelson L, Ward K, Burt R, White R, Leppert M: A CA-repeat polymorphism close to the adenomatous polyposis coli (APC) gene offers improved diagnostic testing for familial APC. Am J Hum Genet 1993; 52(2):286-296.
8. Ward K, Riley R, Lu J, Robertson M, Nelson LM: A tetranucleotide repeat on polymorphism at the D8S307 Locus. Hum Molecul Genet, 1993; 2(5):615.

9. Ward K, Hata A, Jeunemaitre X, Helin C, Nelson L, Namikawa C, Farrington P, Ogasawara M, Suzumori K, Tomoda S, Berrebi S, Sasaki M, Corvol P, Lifton RP, Lalouel JM: A molecular variant of angiotensinogen associated with preeclampsia. Nature Genetics, 1993; 4:59-61.
10. Charrow J, Listernick R, Ward K: Autosomal dominant multiple cafe au lait spots and neurofibromatosis-1: evidence of non-linkage. Am J Med Genet, 1993; 45(5):606-8.
11. Silva AJ, Ward K, White R: Mosaic methylation in clonal tissue. Development Biol, 1993; 156(2):391-398.
12. Ward K, Riley R, Lu J, Robertson M, Nelson L: Tetranucleotide repeat polymorphism at the D8S344 locus. Hum Molecul Genet, 1993; 2(7):1087.
13. Lu J, Riley R, Robertson M, Nelson L, Ward K: Tetranucleotide repeat polymorphism at the D8S342, D8S323, D8S345, D8S315, and D8S347 loci on 8q. Hum Molecul Genet, 1993; 2(10):1743.
14. Lewis TB, Leach RJ, Ward K, O'Connell P, Ryan SG: Genetic heterogeneity in benign neonatal epilepsy: identification of a new locus on chromosome 8q. Am J Hum Genet, 1993; 53:670-675.
15. Nelson L, Riley R, Lu J, Robertson M, Ward K: Tetranucleotide repeat polymorphism at the D8S306 locus. Hum Molecul Genet, 1993; 2(11):1984.
16. Riley R, Nelson L, Ward K, Robertson M, Ballard L, Connoly J, Lu J: Tetranucleotide repeat polymorphism at the D8S320 locus. Hum Molecul Genet, 1993; 2(9):1512.
17. Jorde LB, Watkins WS, Viskochil D, O'Connell P, Ward K: Linkage disequilibrium in the neurofibromatosis 1 region: implications for gene mapping: Am J Hum Genet, 1993; 53(5):1038-1050.
18. Riley R, Nelson L, Lu J, Robertson M, Ward K: Tetranucleotide repeat polymorphism at the D8S346 locus. Hum Molecul Genet, 1993; 3(1):214.
19. Fillmore K, Lu J, Riley R, Petersen M, Ward K: Tetranucleotide repeat polymorphism at the D8S322 locus. Hum Molecul Genet, 1993; 3(4).
20. Ward K, Riley R, Lu J, Fillmore K, Robertson M, Nelson K: Tetranucleotide repeat polymorphism at the D8S474 locus. Hum Molecul Genet, 1994; 3(2):383.
21. Lu J, Riley R, Fillmore K, Ward K: Tetranucleotide repeat polymorphism at the D8S640 locus. Hum Molecul Genet, 1994; 3(5):839.
22. Bleyl S, Ainsworth P, Nelson L, Viskochil D, Ward K: An ancient Ta subclass L1 insertion results in an intragenic polymorphism in an intron of the NF1 gene. Hum Molecul Genet, 1994; 3(3):517-518.
23. Nelson L, Lu J, Peterson M, Fillmore K, Riley R, Ward K: Tetranucleotide repeat polymorphism at the D8S639 locus. Hum Molecul Genet, 1994;3(7):1209.

24. Bleyl S, Ruttenberg HD, Carey JC, Ward, K: Familial total anomalous pulmonary venous return: A large Utah-Idaho family. Am J Med Genet, 1994; 52:462-466.
25. The genome project consortium including Ward K: Genome maps V. Science, 1994; 2055-2070.
26. Ward K, Nelson L, Lu J, Peterson M, Fillmore K, Riley R: Tetranucleotide repeat polymorphism at the D8S492 locus. Hum Molecul Genet, 1994; 3(10):1913.
27. Inoue I, Rohrwasser A, Helin C, Jeunemaitre X, Crain P, Bohlender J, Lifton RP, Corvol P, Ward K, Lalouel J-M: A mutation of angiotensinogen in a patient with preeclampsia leads to altered kinetics of the renin-angiotensin system. J Biol Chem, 1995; 270 (19):11430-11436.
28. Bleyl S, Nelson L, Leppert M, Ward K: A gene for familial total anomalous venous return maps to chromosome 4p/3-q11. Am J Human Genet, 1995; 56:408-415.
29. The Utah Marker Development Group including Ward K: A collection of ordered tetranucleotide-repeat markers from the human genome. Am J Human Genet, 1995; 57:619-628.
30. Dizon-Townson D, Nelson L, Scott JR, Branch DW, Ward K: Human leukocyte antigen DQ $\alpha$  sharing is not increased in couples with recurrent miscarriage. Am J Reprod Immunol, 1995; 34:209-212.
31. Dizon-Townson D, Hutchison C, Silver R, Branch DW, Ward K: The factor V Leiden mutation which predisposes to thrombosis is not common in patients with antiphospholipid syndrome. Thrombosis and Hemostasis, 1995; 74(4):1029-1031.
32. Lewis TB, Nelson L, Ward K, Leach RJ: A radiation hybrid map of 40 loci for the distal long arm of chromosome 8. Genome Research, 1995; 5:334-341.
33. Purandare SM, Cawthon R, Nelson LM, Sawada S, Watkins WS, Ward K, Jorde LB, Viskochil DH: Genotyping of PCR-based polymorphisms and linkage-disequilibrium analysis at the NF1 locus. Am J Hum Genet, 1996; 59:159-166.
34. Dildy GA, Jackson GM, Ward K: Determination of fetal RhD status from uncultured amniocytes. Obstet Gynecology, 1996; 88(2):207-210.
35. Dilts CV, Carey JC, Hoffman RO, Creel D, Kircher JC, Ward K, Clark E, Leonard CO: Children and adolescents with Neurofibromatosis 1: A behavioral phenotype. Journal of Developmental and Behavioral Pediatrics, 1996;17(4):229-239.
36. Dizon-Townson DS, Nelson L, Easton K, Ward K: The factor V Leiden mutation may predispose women to severe preeclampsia. AJOG, 1996; 175(4):902-905.
37. Tong K, Harnsberger HR, Dahlen RT, Carey J, Ward K: Large vestibular aqueduct syndrome: A genetic disease? American Journal of Radiology, 1996; 168:1097-1100.

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195. Casey VF, Braun JT, Ward K: An update on the Heritability of Idiopathic Scoliosis in First Degree Relatives of Surgical Proband. Scoliosis Research Society, 2003.

196. Casey VF, Braun JT, Ward K: The Heritability of Severe Idiopathic Scoliosis in Relatives of Surgical Proband in Utah. Scoliosis Research Society, 2003.
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198. Ward K, Farrington P, Argyle V, Meade MC, Nelson LM: Heritability of Polycystic Ovary Syndrome. Society for Gynecologic Investigation, 2004.
199. Ward K, Farrington P, Meade MC, Hull D, Nelson LM: The Heritability of Endometriosis: Insights from a Large Population Database. Society for Gynecologic Investigation, 2004.
200. Braun J, Casey V, Argyle V, Nelson LM, Meade M, Ward K: Searching for Genes Responsible for Adolescent Idiopathic Scoliosis. Scoliosis Research Society, 2004.
202. Ward K, Argyle V, Meade MC, Nelson LM: The Heritability of Preterm Delivery, American College of Obstetrics and Gynecology Annual Clinical Meeting, 2005.
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204. Kendal CE, Trefz D, Ward K, Bryant-Greenwood GD: Expression of Pre-B Cell Colony Enhancing Factor (PBEF) in Primary Human Amniotic Epithelial Cells: Response to Longterm Static Stretch. Society for Gynecological Investigation, 2006.
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208. Ward K, Meade MC, Nelson LM, Argyle V, Smith-Berry T, Murphy S, Braun JT, Ogilvie JW: Genetic Analysis of Large Four Generation Families with Idiopathic Adolescent Scoliosis. American Society of Human Genetics, 2006.
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212. Burlingame JM, Urschitz J, Ward K: Vistfatin Polymorphisms and Gestational Diabetes. Society for Gynecological Investigation, 2007.
213. Ogilvie JW, Ward K, Nelson L: Novel DNA Test for Severe Adolescent Idiopathic Scoliosis- Presymptomatic Prognostic Test Identifies Patients Who Might Benefit from Early Application of Non-fusion Implants. Spine Arthroplasty Society, 2008.
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216. Ogilvie JW, Nelson L, Chettier R, Smith-Berry T, Ward K: Predicting Brace-Resistant Adolescent Idiopathic Scoliosis, Scoliosis Research Society, 2008
217. Ward K, Nelson LM, Chettier R, Braun JT, Ogilvie JW: Genetic profile predicts curve progression in Adolescent Idiopathic Scoliosis. Scoliosis Research Society, 2008.
218. Ward K, Singleton M, Berry T, Nelson L, Ogilvie J: Validations trials of A DNA-based Prognostic Test (AIS-PT) designed to predict curve progression in Adolescent Idiopathic Scoliosis patients. International Meeting on Advanced Spine Technologies, 2009.
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221. Ward K, Albertsen H, Frech G, Maness T, Dintelman S, Wong L: The heritability of neonatal death in a Utah population. American Society of Human Genetics, 2009.
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228. Lonner B, Murthy V, Goldstein T, Penn K, Ward K: Personalizing Management of Adolescent Idiopathic Scoliosis: Can DNA-Based Prognostic testing Lead To Evidence Based Care and Lowered costs? Submitted Pediatric Orthopaedic Society of North America / Asia Pacific Orthopaedic Association, 2010.
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237. Albertsen H, Chettier R, Farrington P, Ward K. Genome-wide association study suggest novel loci predisposing women to develop endometriosis. World Congress on Endometriosis, 2011.
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242. Ogilvie J, Nelson LM, Ward K. Using the adolescent idiopathic scoliosis prognostic test (AIS-PT) to predict progression to moderate curves in patients with a mild curve. Scoliosis Research Society and International Meeting on Advanced Spine Technologies, 2011.
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249. Ward K, Nelson LM, Chettier R, Ogilvie JW. The clinical value of an intermediate risk score with AIS prognostic testing. Scoliosis Research Society, 2012.
250. Ward K, Chettier R. Shared chromosomal segment analysis in distant relatives with Adolescent Idiopathic Scoliosis. International Meeting on Advanced Spine Technologies, 2012.
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264. Ward K, Chettier R, Farrington P, Albertsen HM. Mutations in the GnRH signaling pathway are risk factors for endometriosis. American Society for Reproductive Medicine, 2014.
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266. Chettier R, Albertsen HM, Ward K. Rare mutations in Wnt signaling pathways are risk factors for endometriosis. American Society for Reproductive Medicine, 2014.



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269. Chettier R, Albertsen HM, Ward K. *NLRP2*: A paternally imprinted gene implicated in innate immunity and blastocyst development has a major effect on endometriosis. American Society of Human Genetics, 2015.
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272. Ward K, Chettier R, Albertsen HM. Novel candidate genes for endometriosis were identified by exome analysis of high risk endometriosis families that share rare damaging variants in multiple families. Society for Reproductive Investigation, 2016.
273. Albertsen HM, Chettier R, Ward K. Key endometriosis genes show very low mutations rates indicating these genes have essential functions during embryonic development and suggests a role in endometriosis-related infertility. Society for Reproductive Investigation, 2016.
274. Chettier R, Albertsen HM, Ward K. Distant relative pair analysis identifies a DNA repair gene *POLN* associated with familial endometriosis. Society for Reproductive Investigation, 2016.
275. Ward K, Chettier R, Albertsen HM. Replication study implicates *IL33* and *PDE1C* as candidate genes for endometriosis. Society for Reproductive Investigation, 2016.
276. Polly D, Ledonio C, Ward K, Moertel C, Chettier R, Nelson LM, Crawford A, Ogilvie JW. Genetic evaluation for the scoliosis gene(s) in patients with neurofibromatosis type I. Scoliosis Research Society, 2016.
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283. Albertsen HM, Chettier R, Ward K. Endometriosis GWAS replicate association near the kinase insert domain receptor gene (KDR). World Congress of Endometriosis, 2017.
284. Ward K, Chettier R, Albertsen HM. Variation in innate pain sensitivity may play an important role in endometriosis. World Congress of Endometriosis, 2017.
285. Chettier R, Albertsen HM, Ward K. CCDC168 and MUC12 show recessive effects in women with endometriosis. World Congress of Endometriosis, 2017.
286. Iyer A, Carlile A, Olney B, Allen P, Kerman S, Workman R, Bomsta Z, Workman K, Ward K. Prototype “Belly Band” wearable monitor for continuous monitoring of fetal ECG and fetal movement during the third trimester. International Stillbirth Alliance, 2017.
287. Fogelson N, Chettier R, Ward K. DNA testing to predict endometriosis: implications for referral for minimally invasive surgery. American Association of Gynecologic Laparoscopists, 2017.
287. Ward K, Argyle V. A family with over 200 women with confirmed endometriosis suggesting autosomal dominant inheritance. Society for Reproductive Investigation, 2018.
288. Albertsen HM, Chettier R, Ward K. Rare synonymous mutations show strong association with endometriosis. Society for Reproductive Investigation, 2018.
289. Chettier R, Albertsen HM, Ward K. Large effect mutations found in endometriosis genes implicated by GWAS. Society for Reproductive Investigation, 2018.
290. Ward K, Chettier RN, Argyle V. Whole exome sequencing of 137 endometriosis patients with a common ancestor in Shakespeare’s England. American Society for Reproductive Medicine, 2018.
291. Ward K, Argyle V, Cederholm P, Chettier RN. Can genetic markers of endometriosis predict a patient’s responsiveness to leuprolide acetate. American Society for Reproductive Medicine, 2018.
292. Ward K, Argyle V. Segregation analyses of 123 families: dominant genes commonly contribute to pathogenesis of endometriosis. American Society for Reproductive Medicine, 2018.

293. Albertsen HM, Goulielmos GN, Chettier R, Matalliotake C, Zervou MI, Matalliotaks M, Ward K. Whole exome sequencing identify hemizygous deletions in UGT2B28 and USP17L2 in a three-generation family with endometriosis. American Society for Reproductive Medicine, 2018.
294. Ward K, Chettier R, Albertsen HM. Protein-truncating mutation underlying endometriosis. Society for Reproductive Investigation, 2019.
295. Chettier R, Albertsen HM, Ward K. Mutations in METTL11B: A primer for N-terminal RCC1 methyltransferase play a role in endometriosis. Society for Reproductive Investigation, 2019.
296. Ward K, Albertsen HM, Chettier R. The genetic architecture of endometriosis. Society for Reproductive Investigation, 2019.
297. Albertsen HM, Chettier R, Ward K. Avoiding false positive results through ancestry filtering. Society for Reproductive Investigation, 2019.
298. Gammill HS, Chettier R, Brewer A, Shree R, Tsigas E, Ward K. Truncating mutations in the ECT2L and OBSCN genes are associated with preeclampsia. Society for Reproductive Investigation, 2019.
299. Ward K, Chettier R, Albertsen H. Excess germline mutations in four genes in unrelated women with surgical endometriosis. Submitted European Society of Human Reproduction and Embryology, 2019.

## Patents

### Inventor on Juneau Biosciences Patents

|   |   |
|---|---|
| U.S. Patent Applications pending          | 8 |
| International Patent Applications pending | 2 |

### Inventor on Axial Biotech Patents

|   |    |
|---|----|
| U.S. Patent Applications pending          | 11 |
| International Patent Applications pending | 4  |

### Issued Patents:

|                      |           |                 |                   |  |
|----------------------|-----------|-----------------|-------------------|--|
| United States Patent | 8,123,787 | Ogilvie, et al. | February 28, 2012 | Method of treating scoliosis using a biological implant    |
| United States Patent | 8,641,738 | Ogilvie, et al. | February 4, 2014  | Method of treating scoliosis using a biological implant    |
| United States Patent | 8,932,993 | Ward, et al.    | January 13, 2015  | Method of testing for endometriosis and treatment therefor |
| United States Patent | 9,370,431 | Ogilvie, et al. | June 21, 2016     | Method of treating scoliosis using a biological implant    |

|   |   |
|---|---|
| United States Patent 9,434,991 Ward, et al.<br>endometriosis and treatment therefor       | September 6, 2016 Method of testing for     |
| United States Patent 9,623,152 Ogilvie, et al.<br>using a biological implant to scoliosis | April 18, 2017 Method of treating scoliosis |
| United States Patent 9,757,152 Ogilvie, et al.<br>scoliosis using a biological implant    | September 12, 2017 Method of treating       |
| United States Patent 9,840,738 Ward, et al.<br>endometriosis and treatment therefor       | December 12, 2017 Method of testing for     |

### Oral Presentations

NAACOG Regional Conference, 1983  
Salt Lake City, Utah  
“Episiotomy”

Maternal Transport Workshop, 1984  
Salt Lake City, Utah  
“Maternal Transport”

Fairfax Ethics Symposium, 1986  
Fairfax, Virginia  
“Maternal Versus Fetal Rights”

University of Utah Obstetrics and Gynecology  
Post-graduate Course, 1988  
Park City, Utah  
“DNA Technology for the Obstetrician”

University of Utah Obstetrics and Gynecology  
Post-graduate Course, 1989  
Park City, Utah  
“The Genetics of Pregnancy Induced Hypertension”  
“Court Ordered Obstetrics”

University of Utah Ethics Symposium, 1989  
Salt Lake City, Utah  
“Anatomy and the Child: Genetic Testing and Genetic Illness”

Utah Perinatal Association, 1989  
Salt Lake City, Utah  
“DNA Testing in Prenatal Diagnosis”  
University of Utah Obstetrics and Gynecology

Department of Obstetrics and Gynecology Post-Graduate Course, 1990  
University of Utah Health Sciences Center  
Elective  
“Amniotomy - Pros and Cons”  
“What is your Genetics IQ?”

Third International Conference of Teratology  
Information Services, 1990  
Park City, Utah  
“Educating Health Care Providers”  
Maternal Transport Workshop, 1990  
Salt Lake City, Utah  
“Post-dates and Meconium”

Utah Perinatal Association, 1990  
Ogden, Utah  
“Court Ordered Obstetrics”

National Neurofibromatosis Foundation Clinical Care Symposium, 1990  
Cincinnati, Ohio  
“The NF-1 Prenatal and Pre-symptomatic Testing Project”

American Fertility Society Meeting, 1990  
Washington, DC  
“The New Genetics: Clinical Applications”

University of Utah Obstetrics and Gynecology  
Post-graduate Course, 1991  
Park City, Utah  
“DNA Testing Advances for Obstetrics”

James W. Wiggins, M.D. Lectureship, 1991  
Albuquerque, New Mexico  
“DNA Testing: How It Will Change Your Practice”  
“New Options in Cystic Fibrosis Testing”

Ogden Surgical-Medical Society, 1991  
Ogden, Utah  
“Screening for Genetic Diseases in OB Patients”  
“DNA Technology: Changing the Practice of Medicine”

St. Mary’s Hospital Grand Rounds, 1991  
Grand Junction, Colorado  
“How DNA Testing is Changing Medical Practice”

March of Dimes Western Regional Meeting, 1992  
Park City, Utah  
“The New Genetics”

University of Utah  
Pediatric Grand Rounds, 1992  
Salt Lake City, Utah  
"Molecular Medicine"

University of Utah Obstetrics and Gynecology  
Post-graduate Course, 1992  
Park City, Utah  
"In the Beginning - The First Week After Conception"  
March of Dimes Regional Directors Workshop, 1993  
Salt Lake City, Utah  
"Advances in Genetics"

University of Utah Obstetrics and Gynecology  
Post-graduate Course, 1993  
Park City, Utah  
"Preimplantation Diagnosis"

Society for Gynecologic Investigation, 1993  
Post-graduate Course  
Toronto, Canada  
"Gene Mapping"

Genesis Seminar, 1993  
Salt Lake City, Utah  
"From Prenatal to Pre-pregnancy Diagnosis"

George Washington University  
A.B. Weingold and J. G. Sites Post-graduate Course, 1993  
Washington, DC  
"Pre-implantation Diagnosis"

Shrine Scientists' Meeting, 1993  
Tampa, Florida  
"Hereditary Multiple Exostoses: Genetic Studies"

Pregnancy Loss Study Group Meeting, 1993  
Salt Lake City, Utah  
"Genetic Causes of Pregnancy Loss: Insights from Molecular Genetics"

Advanced Life Support in Obstetrics Course, 1993  
Salt Lake City, Utah  
"Forcep Delivery"

Neurofibromatosis Symposium and Pediatric Grand Rounds  
University of Colorado Health Sciences Center, 1993  
Denver, Colorado  
"Molecular Genetic Testing for Neurofibromatosis"

4th Annual Neonatal-Perinatal Retreat, 1993  
Snowbird, Utah  
“Genetic Engineering - where are we going?”  
“Nitric Oxide - current status”

Intermountain Junior Science and Humanities Symposium, 1994  
Salt Lake City, Utah  
“Molecular Medicine”

Pine Ridge Conference on Genetic Approaches to Thrombosis, 1994  
Snowbird, Utah  
“Genetic Linkage and Association: Lessons from Preeclampsia”

Educational Development Council Meeting, 1994  
University of Utah Health Sciences Center  
Salt Lake City, Utah  
“How Personal Knowledge of Your Genes is Changing Medicine”

Utah Mothers of Twins, 1994  
Salt Lake City, Utah  
“MZ or DZ: That is the Question!”

University of Utah Orthopedics Grand Rounds, 1994  
Salt Lake City, Utah  
“Hereditary Multiple Exostoses”

Association of Cytogenetic Technologists, 1994  
San Diego, California  
“New Advances in Diagnostic Molecular Genetics”

The Center for Pediatric Continuing Education, 1994  
Primary Children’s Medical Center  
Salt Lake City, Utah  
“Developmental Disorders and the New Genetics”

Family Issues Outreach Committee, 1994  
Utah State University  
Logan, Utah  
“PIH and Genetic Research”

Visiting Professor, Department of Obstetrics and Gynecology, 1994  
North Shore University Hospital  
Manhasset, New York  
“The Genetics of Preeclampsia”

Wisconsin Society of Obstetrics and Gynecology Meeting, 1994  
Medical College of Wisconsin  
LaCrosse, Wisconsin

“Beyond Chromosomes: Screening for Nonchromosomal Genetic Problems in Obstetric Practice”  
“Gene Therapy”

6th Annual NICHD Aspen Conference, 1994  
The Given Institute  
Aspen, Colorado  
“Genetic Markers for Adverse Pregnancy Outcomes”

Advanced Life Support in Obstetrics Course, 1994  
Midway, Utah  
“Emergency Bedside Ultrasound”

Mothers and Multiples Group, 1994  
North Davis Medical Center  
Layton, Utah  
“Are Your Twins Identical?”

14th Annual President’s Seminar, 1994  
University of Utah  
Salt Lake City, Utah  
“DNA in the Courtroom, in Your Home, and in Your Doctor’s Office”

Mother’s of Twins Annual Convention, 1994  
Marriott Hotel  
Salt Lake City, Utah  
“Twins in Genetics Research”

American Fertility Society Annual Meeting, 1994  
Molecular Aspects of Human Reproduction  
San Antonio, Texas  
“Basic Concepts of DNA and Its Analysis”

American Fertility Society Annual Meeting, 1994  
Molecular Aspects of Human Reproduction  
San Antonio, Texas  
“Mapping Disease Genes”

American Fertility Society Annual Meeting, 1994  
Molecular Aspects of Human Reproduction  
San Antonio, Texas  
“Uniparental Disomy”



American Fertility Society Annual Meeting, 1994  
Molecular Aspects of Human Reproduction  
San Antonio, Texas  
“Genes Involved in Disorders of Reproduction: Recurrent Abortion, Preeclampsia, etc.”

Prenatal Diagnosis Conference, 1995  
Salt Lake City, Utah  
“Ken’s Top Ten List”

Society of Perinatal Obstetricians Annual Meeting, 1995  
Molecular Genetics for the Perinatologist  
Atlanta, Georgia  
“The Basics: For Beginners Only”

Society of Perinatal Obstetricians Annual Meeting, 1995  
Molecular Genetics for the Perinatologist  
Atlanta, Georgia  
“Prenatal DNA Testing”

Society of Perinatal Obstetricians Annual Meeting, 1995  
Molecular Genetics for the Perinatologist  
Atlanta, Georgia  
“Gene Mapping”

Society of Perinatal Obstetricians Annual Meeting, 1995  
Hypertension Special Interest Group  
Atlanta, Georgia  
“Angiotensinogen: A Candidate Gene for Preeclampsia”

Department of Obstetrics and Gynecology Grand Rounds, 1995  
University of Utah Health Sciences Center  
Salt Lake City, Utah  
“Sex and Molecular Genetics”

Department of Obstetrics and Gynecology Post-Graduate Course, 1995  
University of Utah Health Sciences Center  
Salt Lake City, Utah  
“An Update in DNA Testing”

Society for Gynecologic Investigation Annual Meeting, 1995  
New Molecular Developments in Reproduction Post-Graduate Course  
Chicago, Illinois  
“Molecular Bases for Spontaneous Abortion”

Utah Women’s Health Conference, 1995  
Salt Lake City, Utah  
“Have you Hugged Your Genes Today?”

Invited speaker, Salt Lake Rotary Club, 1995  
Salt Lake City, Utah  
“The DNA Revolution”

Invited speaker, Towne Club, 1995  
Salt Lake City, Utah  
“What the New Genetics Means to You”

Tox Talks, 1995  
Mill Valley, California  
“Angiotensinogen Variants and Placental Variation: A Hypothesis”

Intermountain Pediatric Society Annual Conference, 1995  
Salt Lake City, Utah  
“What’s New in Genetic Testing”  
“Into the Future: Gene Therapy”

FHP Grand Rounds, 1995  
Salt Lake City, Utah  
“Prenatal Diagnosis”

Mountain States Regional Genetic Services Network, 1995  
Bob McCurdy Lectureship  
Steamboat Springs, Colorado  
“Fetal Tissue Transplantation”  
“Cancer Genetics Counseling: Preliminary Experience”

Mother’s of Twins Conference, 1995  
Utah Valley State College  
Provo, Utah

Department of Pediatrics Grand Rounds, 1995  
University of Utah Health Sciences Center  
Salt Lake City, Utah  
“Advances in the Genetics of Congenital Heart Malformations”

American Society of Reproductive Medicine Annual Meeting, 1995  
Human Reproductive Genetics Postgraduate Course  
Seattle, Washington  
“Basic Concepts of DNA and Its Analysis”

American Society of Reproductive Medicine Annual Meeting, 1995  
Human Reproductive Genetics Postgraduate Course  
Seattle, Washington  
“Mapping Disease Genes”

American Society of Reproductive Medicine Annual Meeting, 1995  
Human Reproductive Genetics Postgraduate Course  
Seattle, Washington  
“Uniparental Disomy”

American Society of Reproductive Medicine Annual Meeting, 1995  
Human Reproductive Genetics Postgraduate Course  
Seattle, Washington  
“Genes Involved in Disorders of Human Gestation”

Department of Obstetrics and Gynecology Grand Rounds, 1995  
University of Utah Health Sciences Center  
Salt Lake City, Utah  
“The Genetics of Preeclampsia”

American College of Obstetricians and Gynecologists District V Annual Meeting, 1995  
Kona Coast, Hawaii  
“Molecular Screening: DNA for the Obstetrician”  
“Preeclampsia/Genetics”

Pediatric Continuing Education Current Concepts in Transport Conference, 1996  
Hilton Hotel Convention Center  
Salt Lake City, Utah  
“Pregnancy-Induced Hypertension”

Department of Obstetrics and Gynecology Post-Graduate Course, 1996  
University of Utah Health Sciences Center  
Salt Lake City, Utah  
“Placental Examination: Your Best Defense”

Interdepartmental Research Seminar, March 1996  
University of Utah Health Sciences Center  
“Disorder of Placental Invasion”

Invited Expert  
Foundation for Developmental and Medical Genetics, 1996  
Tampa, Florida  
“Molecular Genetics of Human Placentation”

American Society of Reproductive Medicine, 1996  
What’s New in Reproductive Medicine Postgraduate Course  
Rancho Mirage, California  
“Genetic and Environmental Causes of Embryonic Death”

American Society of Reproductive Medicine, 1996  
What’s New in Reproductive Medicine Postgraduate Course  
Rancho Mirage, California  
“DNA Diagnosis”

American Society of Reproductive Medicine, 1996  
What's New in Reproductive Medicine Postgraduate Course  
Rancho Mirage, California  
"What's New in Molecular Genetics"

American Society of Reproductive Medicine, 1996  
What's New in Reproductive Medicine Postgraduate Course  
Rancho Mirage, California  
"Ultrasound in the First Trimester: What to Look For"

International Fetal Medicine and Surgery Society, 1996  
Capri, Italy  
"Genetics of Decidual Vasculopathy"

Utah Department of Health, 1996  
Pregnancy Riskline Seminar  
Salt Lake City, Utah  
"Mapping Birth Defects"

Utah Department of Health, 1996  
3rd Annual Conference of the Disabilities Prevention Program and the Pregnancy Riskline  
Snowbird Resort, Utah  
"Lightning Does Strike Twice: Discovering Genetic Predispositions for Common Birth Defects"

Salt Lake Valley Women's Services, 1997  
Bereavement Support Group for Fetal Death  
Salt Lake City, UT  
"Genetic Insights Into Fetal Death and Miscarriage"

University of California, Irvine, 1997  
12th Annual Perinatal Conference at Beaver Creek  
Beaver Creek, CO  
"Genes from Sick Placentas"

Department of Obstetrics and Gynecology Post-Graduate Course, 1997  
University of Utah Health Sciences Center  
Salt Lake City, Utah  
"New Developments in Genetics"

Pediatric Continuing Education Current Concepts in Transport Conference, 1997  
Hilton Hotel Convention Center  
Salt Lake City, Utah  
"PIH, PTL, and IUGR: Different Flavors of the Sick Placenta"

Department of Obstetrics and Gynecology Grand Rounds, 1997  
University of Utah Health Sciences Center  
Salt Lake City, Utah  
"PIH: Modern Myths and Medical Misadventures"

Advances in the Study of Congenital Heart Malformation and Syndromes, 1997

Primary Children's Medical Center

Salt Lake City, Utah

"Mapping and Cloning Genes for Congenital Heart Malformations"

Department of Family Practice Grand Rounds, 1997

University of Utah

Salt Lake City, Utah

"Practical Approach to Prenatal Testing"

Invited Expert

Preterm Birth: Etiology, Mechanisms, and Prevention, 1997

Charleston, South Carolina

"Genetic Factors in Preterm Labor"

President's Seminar, 1997

University of Utah

Salt Lake City, Utah

"Advances in Reproductive Genetics"

Invited Speaker

Washington State Obstetrical Association, 1997

Seattle, Washington

"New Genetic Tools for Obstetrics"

"Why Me? Genes for Common Diseases"

Society of Perinatal Obstetricians, 1998

Molecular Genetics Post-Graduate Course

Miami Beach, Florida

"New Molecular Insights into Teratogenesis"

"Single Cell Genetic Testing"

Department of Obstetrics and Gynecology Post-Graduate Course, 1998

University of Utah Health Sciences Center

Salt Lake City, Utah

"The Placenta Quiz"

Society for Gynecologic Investigation, 1998

Gene Mapping Post-Graduate Course

Atlanta, Georgia

"The Basics of Gene Mapping"

Department of Obstetrics and Gynecology, Grand Rounds, 1998

University of Utah Health Sciences Center

Salt Lake City, Utah

"Giving Bad News to Patients"

United Jewish Appeal Western Regional Conference, 1998  
San Diego, California  
“Breast Cancer Gene Testing at the University of Utah”

Salt Lake Valley Women’s Services, 1998  
Bereavement Support Group for Fetal Death  
Salt Lake City, Utah  
“Genetic Insights Into Fetal Death and Miscarriage”

Department of Obstetrics and Gynecology  
Grand Rounds, 1998  
St. Mark’s Hospital  
Salt Lake City, Utah  
“Incompetent Cervix”

Pediatric Continuing Education Current Concepts in Transport Conference, 1998  
Sun Valley Resort  
Sun Valley, Idaho  
"Emerging Issues in Genetics for Physicians and Nurses in Pediatrics and Obstetrics"

Pediatric Continuing Education Current Concepts in Transport Conference, 1998  
Sun Valley Resort  
Sun Valley, Idaho  
"Prenatal Diagnosis 1998"

Department of Obstetrics, Gynecology & Reproductive Sciences, Grand Rounds, 1998  
The Maryland Women’s Center  
Baltimore, Maryland  
“Genetic Insights Into Pre-eclampsia”

Courts and the Challenge of Genetics Western States Conference, 1998  
Salt Lake City, Utah  
“Prenatal Genetic Testing”

University of California, Irvine, 1999  
14th Annual Perinatal Conference at Beaver Creek  
Beaver Creek, CO  
“Why me? The Genetics of Common Diseases”

Department of Obstetrics and Gynecology Post-Graduate Course, 1999  
University of Utah Health Sciences Center  
Salt Lake City, Utah  
“The Placenta Quiz”  
“What’s New in Genetics?”

29th Annual Family Practice Refresher Course, 1999  
Salt Lake City, Utah  
“Advances in Medical Genetics”

6th International Workshop on Fetal Genetic Pathology, 1999  
Dead Sea, Isreal  
“First Trimester Placental Lesions and Perinatal Morbidity”

Grand Rounds, 1999  
University of North Carolina - Chapel Hill  
“Genetic Insights Into Preeclampsia”

The North American Society for the Study of Hypertension in Pregnancy, 1999  
Winston-Salem, NC  
“Debate: HELLP Syndrome is Not a Variant of Severe Preeclampsia”  
“Mapping Genes for Preeclampsia”

Tufts University Genetics Grand Rounds, 1999  
Boston, MA  
“Mapping Birth Defect Genes”

Annual Judicial Conference, 1999  
Park City, UT  
“Predispositions and DNA Testing”

Invited speaker  
University of California at San Francisco Research Conference, 1999  
San Francisco, CA  
“Genes and Placental Disorders”

Invited speaker  
Proceedings, The Placenta: Basic Sciences and Clinical Practice, 38th RCOG Scientific Study  
Group, Royal College of Obstetrics and Gynecology, 1999  
London, England  
“Inherited Thrombophilias and Placental Thrombosis”

Perinatal Research Society, 1999  
Ross Products Division, Abbott Laboratories, Inc. Lecturer  
Charleston, SC  
“Genetic Insights into Common Pregnancy Complications”

Invited speaker  
Wake Forest University School of Medicine, 1999  
Advances in Physiology and Pharmacology in Anesthesia and Critical Care  
White Sulphur Springs, WV  
“Human Genetic Engineering”

Society for Gynecologic Investigation  
Fetal Therapy Workshop, 2000  
Salt Lake City, UT  
“Gene Therapy and Stem Cell Transplantation”

Invited speaker  
American Gynecologic Club, 2000  
Deer Valley, UT  
“Mapping Genes for Common Ob/Gyn Disorders”

Invited speaker  
FIGO World Congress, 2000  
Washington, DC  
“Genetic Screening”

Invited speaker  
Utah Society of Diagnostic Medical Sonographers, 2000  
Salt Lake City, UT  
“Don’t Skip Over the Placenta”

Invited speaker  
Aron E. Szulman Lecturer, 2000  
Magee-Women’s Hospital  
Pittsburgh, PA  
“Genetics of common Ob/Gyn Disorders”

Society for Gynecologic Investigation  
Gene Therapy Workshop, 2000  
Salt Lake City, UT  
“DNA Testing, 2000”

National Society of Genetic Counselors Education Conference, 2000  
Savannah, GA  
“Linkage analysis for X-linked severe combined immunodeficiency disease”  
“Investigation of a more comprehensive diagnostic test for congenital adrenal hyperplasia (21-hydroxylase deficiency)”

Society for Maternal-Fetal Medicine, 2001  
Epidemiology Interest Group  
Reno, NV  
“Genetic Epidemiology”

Society for Maternal-Fetal Medicine, 2001  
Post Graduate Course  
Reno, NV  
“Fetal Maternal Trafficking”

Society for Maternal-Fetal Medicine, 2001  
NASSHP  
Reno, NV  
“Genetic Approaches to Preeclampsia”



NICHD Very Low Birthweight Workshop, 2001  
National Institutes of Health  
Bethesda, MD

24th Annual Utah Perinatal Association Conference, 2001  
Salt Lake City, UT  
"The High's and Low's of PIH"

Invited Speaker  
NASSHP Annual Meeting, 2002  
Winston-Salem, NC  
"The Genetics of Preeclampsia"

Department of Obstetrics and Gynecology Post-Graduate Course, 2002  
University of Utah Health Sciences Center  
Salt Lake City, UT  
"What's New in Genetics"  
"Fetal Maternal Trafficking"

Invited Speaker  
1st International Preterm Labour Congress, 2002  
Montreux, Switzerland  
"Genetics of Preterm Labor"

Invited Speaker  
University of North Carolina - Chapel Hill, 2002  
Chapel-Hill, NC  
"The Human Genome Project and How It Impacts Perinatal Medicine"  
"Cystic Fibrosis Screening in Pregnancy"

Invited Speaker  
University of Vermont, 2002  
Burlington, VT  
"Genetic Screening 101: Beyond Maternal Serum Screening"  
"OB Ultrasound: Don't Forget the Placenta!"

Invited Speaker  
Grand Rounds, 2003  
JABSOM, University of Hawaii  
Honolulu, HI  
"New Findings in Preeclampsia"

Invited Speaker  
The 16<sup>th</sup> Annual ACOG Hawaii Section Meeting, 2003  
Kauai, HI  
"New Insights Into Preeclampsia"  
"Genetics in Ob/Gyn"

Grand Rounds, 2003  
University of Hawaii John A. Burns School of Medicine  
Honolulu, HI  
“Placenta’s I Have Known”

University of Hawaii  
Faculty Development Lectures, 2003  
Kapiolani Medical Center  
Honolulu, HI  
“Writing a Scientific Paper”  
“Writing a Scientific Abstract”  
“Picking a Research Project”  
“Writing a Grant”

Queen’s Medical Center  
Ob/Gyn Clinical Care Conference, 2003  
“Magnesium Sulphate for Preeclampsia and Preterm Labor”

March of Dimes Hawaii Chapter  
Kapiolani Medical Center for Women & Children  
First Annual Prematurity Summit, 2004  
“Research Perspective”

Perinatal Providers and Advocates Network Meeting  
Department of Health, Clinical Providers Meeting  
Special Focus Session, 2004  
“An Update on Perinatal Genetics Research”

The Hawaii Perinatal Health Summit, 2004  
Honolulu, HI  
“Prematurity and Low Birth Weight”

Grand Rounds, 2004  
University of Hawaii John A. Burns School of Medicine  
Honolulu, HI  
“Double Trouble”

Presidential Guest Speaker  
Scoliosis Research Society Annual Meeting, 2004  
Buenos Aires, Argentina  
“Genetic Aspects of Spine Deformity”

University of Hawaii  
Ethics in Biomedical Research, 2004  
Honolulu, HI

Grand Rounds, 2004  
Queen's Medical Center  
Honolulu, HI  
"Endometriosis Update"

First Annual March of Dimes Town Hall Meeting, 2004  
Honolulu, HI  
"The Problem of Preterm Birth in Hawaii"

Invited Speaker  
District V Annual Meeting, 2004  
Kohala Coast, Hawaii  
American College of Obstetrics and Gynecology  
"Preterm Labor Gestations, Germs, and Genes"

Medical School Advisory Board, 2004  
Honolulu, HI  
"Perinatal Perspectives on Human Health"

Grand Rounds, 2005  
University of Hawaii John A. Burns School of Medicine  
Honolulu, HI  
"Town Hall Meeting"

Grand Rounds, 2005  
Kaiser Permanente Hospital  
Honolulu, Hawaii  
"First Trimester Screening for Aneuploidy"

2005 Bioscience Symposium  
John A. Burns School of Medicine  
Honolulu, Hawaii  
"Perinatal Research and Common Adult Diseases"

March of Dimes Hawaii Chapter  
Kapiolani Medical Center for Women & Children  
Second Annual Prematurity Summit, 2005  
"Preterm Labor: Germs, Genes and Gestations"

Office of Medical Education  
University of Hawaii, John A. Burns School of Medicine  
Unit 3 Conference, 2005  
"Genetics: Polycystic Ovaries"

Grand Rounds, 2005  
University of Hawaii John A. Burns School of Medicine  
Honolulu, HI  
"Finding Disease Genes for Common Ob/Gyn Disorders"

Grand Rounds, 2005  
The Queen's Medical Center  
Honolulu, HI  
"Obstetric Hemorrhage"

Invited Keynote Speaker  
Pacific Coast Obstetrical-Gynecological Society 72<sup>nd</sup> Annual Meeting, 2005  
Kauai, Hawaii  
"Finding Disease Genes for Common Ob/Gyn Disorders"

Grand Rounds, 2005  
The Queen's Medical Center  
Honolulu, HI

Grand Rounds, 2005  
The Queen's Medical Center  
Department of Internal Medicine  
Honolulu, HI  
"Perinatal Insights into Adult Onset Diseases"

Invited Speaker  
Queen's Ob/Gyn Hui and The Queen's Medical Center  
High Risk Obstetrics Conference 2005  
Honolulu HI  
"Update in Pre-eclampsia"

Invited Speaker  
Society for Gynecologic Investigation, 2005  
1<sup>st</sup> International SGI Summit, Preterm Birth  
Siena, Italy  
"Preterm Labor: Genetic Screening"

Invited Speaker  
Donald School of Ultrasound Conference, 2005  
Honolulu, HI  
"Fetal Skeletal Dysplasias"  
"Fetal Hydrocephalus"

University of Hawaii, 2005  
Genetics Lecture  
Kapiolani Medical Center  
Honolulu, HI  
"Common Chromosomal Abnormalities"

Invited Speaker  
Pan-Pacific Surgical Association 27<sup>th</sup> Congress, 2006  
Honolulu, HI  
"Horizons in Perinatal Care"

University of Hawaii, 2006  
Cell and Molecular Biology Seminar, 2006  
JABSOM, MEB  
Honolulu, HI  
“Mapping Genes for Adolescent Idiopathic Scoliosis”

Invited Speaker  
2<sup>nd</sup> Annual Hawaii Bioscience Conference, 2006  
JABSOM, MEB & Hawaii Convention Center  
Honolulu, HI  
“Genomics Primer”  
“Population Based Mapping of Human Disease Genes”

Invited Speaker  
Scoliosis Research Society, 2006  
Monterey, CA  
“Genetic Markers of Idiopathic Scoliosis”

Invited Speaker  
Vanderbilt University, School of Medicine  
Why Our Babies Die Symposium, 2006  
Nashville, TN  
“Prevention of Pre-Term Births: The Challenge”

NICHD Preeclampsia-A Pressing Problem Workshop, 2006  
Potomac, MD  
Mediator of Preeclampsia – “Genetics”

Invited Speaker  
The Queen’s Medical Center  
Clinical Research Conference, 2006  
“Mapping Human Disease Genes”  
Honolulu HI

Invited Speaker  
HiBeam, JABSOM, and Vantage Counsel  
The Hawaii Entrepreneurs Summit, 2006  
Honolulu, HI

Invited Speaker  
University of Hawaii  
Masters in Clinical Research (MSCR), 2006  
Honolulu, HI  
“Legal & Regulatory Issues & Bioethics”

Invited Speaker  
Reed Medical Education, 2006  
Perspective in Women's Health  
San Francisco, CA  
"Putting Women's Healthcare Into Action:  
From Bench to Bedside"

Invited Speaker  
American College of Obstetrics & Gynecology, 2006  
Hapuna Beach, HI  
"Molecular Genetics for the Practicing Ob/Gyn:  
What do you need to know?"  
"The Future of Molecular Genetics, A Look  
Beyond the Horizon"

Invited Speaker  
Evidence-based OB/GYN:  
Practical Application of New Advances, 2007  
Honolulu, HI  
"Preterm Labor Genetics"

Invited Speaker  
Contemporary OB/GYN Ultrasound:  
Recent Advances and Clinical Practices, 2007  
Honolulu, HI  
"Double Trouble"  
"Molecular Ultrasound"

Invited Speaker  
Society for Gynecologic Investigation, 2007  
Reno, NV  
"Genetic Approaches: Defining a Primary Mymometrial Pre-Term Birth Syndrome"

Invited Speaker  
Grand Rounds, 2007  
Kapiolani Medical Center  
Honolulu, HI  
"Genetic Markers for Pre-Term Birth"

CUMULINA Discussion Series, 2007  
John A. Burns School of Medicine  
Honolulu, HI  
"Career in Medical Research"

Invited Speaker  
World Symposium on Perinatal Medicine, 2007  
San Francisco, CA  
"Genomics: The Future of Diagnostics in Perinatal Medicine"

Invited Speaker  
Grand Rounds, 2007  
University of California, Irvine Medical Center  
Irvine, CA  
“Genetic Markers for Pre-Term Birth”

Invited Speaker  
DePuySpine Round Tables in Spine Surgery, 2008  
San Francisco, CA  
“Prognostic Genetic Counseling for Adolescent Scoliosis”

Invited Speaker  
DePuy Spine Dinner Symposium-Pioneering New Treatment Options for Adolescent Scoliosis,  
2008  
San Francisco, CA  
“Genetics of Adolescent Idiopathic Scoliosis”

Invited Speaker  
University of Kansas School of Medicine, 2008  
Sterling Williams Resident Research Forum  
Kansas City, Kansas  
“Genetic Markers for Preterm Birth”

Invited Speaker  
Annual International PREterm Birth Collaborative (PREBIC) Meeting 2009  
Geneva, Switzerland  
“Preterm Birth: Ancestry Informed GWAS”

Invited Speaker  
2009 Summit on Personalized Health Care  
Park City, Utah  
“Perspective of Physician, Scientist & Entrepreneur

Invited Speaker  
DePuy Symposium – Scoliosis Research Society 2009  
San Antonio, Texas  
“Scoliosis Research Society ScoliScore™ Symposium”

Invited Speaker  
SGI 3<sup>rd</sup> International Summit – “Preeclampsia” 2009  
Sendai, Japan  
“Preeclampsia – Genetic Progress and Expectations”

Invited Speaker  
57<sup>th</sup> Annual SGI Meeting, 2010  
Orlando, FL  
“Endometriosis Genome-Wide Association Study (GWAS)”

Invited Speaker

Global Issues for Preterm Birth: Epidemiology, Genetics  
and Pathophysiology Updates by Preterm Birth International  
Collaborative (PREBIC) and World Health Organization  
Satellite Symposium 2010  
Orlando, FL  
"Preterm Birth-Ancestry Informed GWAS"

Invited Speaker

15<sup>th</sup> International Conference on Prenatal Diagnosis And Therapy, 2010  
Amsterdam, Netherlands  
"Genome Wide Analysis in Prenatal Diagnosis of Preeclampsia"

Invited Speaker

Grand Rounds, 2011  
Shriners Hospitals for Children – Philadelphia  
Philadelphia, PA  
"DNA-Based Prognostic Testing for Adolescent Idiopathic Scoliosis"

Invited Speaker

Fourth Symposium Advances in Obstetrics and Gynaecology, 2011  
Lodz, Poland  
"Genetic Determinants of Preterm Birth"

Invited Speaker

2011 Salt Lake City Illumina User Group Meeting  
Salt Lake City, UT  
"Ancestry-Informed Genome Wide Association Studies"

Invited Speaker

Grand Rounds, 2012  
University of Vermont  
Burlington, VT  
"Next-Gen Diagnostics in Obstetrics and Gynecology"

Invited Speaker

The No Name Society, 2014  
Shelburne, VT  
"Genetics of Common Perinatal Complications"

World Congress on Endometriosis, 2014

Sao Paulo, Brazil  
"Genomic rearrangements (copy number variants) may play a role in the pathogenesis of  
endometriosis"



Invited Speaker

World Endometriosis Research Foundation, 2014  
Workshop on the Clinical Utility of Biomarkers  
Florence, Italy

American Society of Reproductive Medicine, 2014  
Honolulu, HI

“Evolutionarily recent, exonic mutations are strong genetic risk factors for endometriosis”

American Society of Reproductive Medicine, 2014  
Honolulu, HI

“Mutations in the GnRH signaling pathway are risk factors for endometriosis”

American Society of Reproductive Medicine, 2014  
Honolulu, HI

“Next generation sequencing of families with endometriosis identifies new genomic regions likely to contribute to heritability”

American Society of Reproductive Medicine, 2014  
Honolulu, HI

“Rare mutations in Wnt signaling pathways are risk factors for endometriosis”

American Society of Human Genetics, 2015  
Baltimore, MD

“NLRP2: A paternally imprinted gene implicated in innate immunity and blastocyst development has a major effect on endometriosis”

American Society of Reproductive Medicine, 2016  
Endometriosis Association Panel Discussion  
Salt Lake City, UT

“Genetic blueprints for development of endometriosis”

13<sup>th</sup> World Congress on Endometriosis, 2017  
Vancouver, BC Canada

“Progress toward development of a non-invasive predictor for endometriosis”

Northside Hospital

Heart of the Matter Conference, 2017  
Atlanta, GA

“Cardiovascular Genetics: Aortic Diseases, Congenital Heart Defects, and the Role of Cardiologist, Obstetrician, and Geneticist”

“Genetics of Preeclampsia”

2017 International Stillbirth Alliance Conference  
Cork, Ireland

“Prototype “Belly Band” Wearable Monitor for Continuous Monitoring of Fetal ECG and Fetal Movement During the Third Trimester”

ASRM 2018 Scientific Congress

Denver, CO

“Can Genetic Markers of Endometriosis Predict a Patient’s Responsiveness to Leuprolide Acetate?”

2019 Society for Reproductive Investigation 66<sup>th</sup> Annual Scientific Meeting

Paris, France

“Mutations in METTL11B: A Primer for N-Terminal RCC1 Methyltransferase Play a Role in Endometriosis”