## PAUL ROBERT BREZINA, MD, MBA, FACOG

80 Humphreys Center Drive, Suite 307 Memphis, TN 38120 (901)747-2229

SPECIALTY	Reproductive Endocrinology and Infertility
FELLOWSHIP	<ul> <li>The Johns Hopkins University School of Medicine, Baltimore, MD</li> <li>Reproductive Endocrinology and Infertility, July 2009 – June 2012</li> <li>Program Director – Howard A. Zacur, MD, PhD</li> <li>Research Mentor Reproductive Genetics – William G. Kearns, PhD</li> <li>Assisted Reproductive Technologies Mentor – Jairo E. Garcia, MD</li> <li>Clinical Mentor – Edward E. Wallach, MD</li> </ul>
RESIDENCY	<ul> <li>Brody School of Medicine at East Carolina University, Greenville, NC</li> <li>Combined OB/GYN and Internal Medicine (IM), July 2004 – June 2009</li> <li>Date of OB/GYN Graduation: June 2009</li> <li>Left IM program for REI fellowship six months prior to board eligibility</li> </ul>
EDUCATION	<ul> <li>Brody School of Medicine at East Carolina University, Greenville, NC</li> <li>Doctor of Medicine (MD), May 2004</li> </ul>
	<ul> <li>East Carolina University College of Business, Greenville, NC</li> <li>Master of Business Administration (MBA), May 2004</li> </ul>
	University of North Carolina at Chapel Hill, Chapel Hill, NC   Bachelor of Arts in History (BA), May 1999
LICENSES &	Board Certified (ABOG): Reproductive Endocrinology and Infertility
CERTIFICATIONS	Board Certified (ABOG): General Obstetrics and Gynecology Fellow of the American Congress of Obstetrics and Gynecology (FACOG) TN, MS, NC, & MD State Medical Board Licenses (All active) DEA License (Active)
EXPERIENCE	<ul> <li>Fertility Associates of Memphis, Memphis, TN (www.fertiilitymemphis.com)</li> <li>Reproductive Endocrinologist, July 16, 2012 – Present</li> <li>Director: Reproductive Genetics Program</li> </ul>

Advagenix, Rockville, MD (www.advagenix.com)

Advisory Board, October 2014 – Present

#### **ACADEMIC**

## Vanderbilt University School of Medicine, Nashville TN

- Assistant Clinical Professor (October 2013 Present)
- **AFFILLIATIONS**
- Department of Obstetrics and Gynecology 

   Division of

   Reproductive Endocrinology and Infertility

## St. Jude Children's Research Hospital, Memphis TN

- Consulting Gynecologist (October 2013 Present)
- · Department of Surgery, Division of Gynecology

## **PROFESSIONAL LEADERSHIP**

**East Memphis Surgery Center Executive Board** (2015-Present)

Baptist Mem Hosp Physician Leadership Development Program (2015-

Present)

Midwest Reproductive Symposium International Organizing CMTE (2015Present)

Society of Reproductive Endocrinology & Infertility (SREI) Associates Chair (2012-2013), Co-Chair (2011-2012)

**SREI Executive Board Officer** (2011-2013)

SREI Fellowship CMTE (2010-2013)

Medical Executive CMTE: Pitt County Mem Hosp (PCMH) (2007-2008)

#### Residency Council (PCMH)

- **Co-Chair** (2007-2008)
- Member (2005-2009)

**Graduate Medical Education CMTE (PCMH)** Member (2007-2008)

**Graduate Medical Education Internal Review Subcommittee (PCMH)** 

Pediatrics, Surgery, Neonatology, & PM&R

## **EDUCATIONAL LEADERSHIP**

## **Editor in Chief**

☐ Journal of IVF-Worldwide: Reproductive Medicine, Genetics & Stem <u>Cell Biology</u> [Editor in chief - Genetics] (2013 - Present)

- Asian Pacific Journal of Reproduction [Deputy Editor in Chief] (2012 -Present)
- Journal of Fertilization: In Vitro [co-editor in chief] (2012 –2013)

#### **Editorial Board Member**

- Journal of Assisted Reproduction and Genetics (2013 Present)
  - Minerva Endocrinologica (2015 Present)
  - Fertility and Sterility [Interactive Associates] (2012 –2014)
    - OA Genetics [Associate Editor] (2014 Present)

Journal of Fertilization: In Vitro (2011 –2012) Ad Hoc Reviewer (Numerous Journals including NEJM, BMJ and Fertil Steril) Selective Director: Reproductive Endocrinology and Infertility Rotation ☐ Offered to 3<sup>rd</sup> year Medical Students during their GYN/OB clerkship at The Johns Hopkins University School of Medicine in 2009-10. **Co-Course Director: Personal and Professional Financial Management** ☐ A one-month 4<sup>th</sup> year Medical Student Elective offered at the Brody School of Medicine at East Carolina University Spring 2009. **PROFESSIONAL Outstanding Poster Award** (First Place Among Poster Presentations) Pacific Coast Reproductive Society 60<sup>th</sup> Annual meeting, Rancho **HONORS** Mirage, Ca, April 18-22, 2012. **Young Investigator Award** The 12<sup>th</sup> International Congress of Human Genetics (The 61<sup>st</sup> meeting of the American Society of Human Genetics), Montreal, Canada, October 11-15 2011. **Finalist: Basic Science Award Among Oral Presentations** European Society of Human Reproduction and Embryology 27th Annual Meeting. Stockholm, Sweden; July 3-6 2011. **Awarded Travel Scholarship** Pacific Coast Reproductive Society 58th Annual meeting, Indian Wells, Ca; April 14-18, 2010. **Resident Recognition Award** Award given by the ECU School of Medicine MSIII class, via a vote, to the single resident who "demonstrates commitment and interest to teaching students" among all specialties. Awarded May 8, 2008. **Awarded ASRM Resident Reporter Scholarship**  ASRM 63<sup>rd</sup> Meeting. October 13-17, 2007, Washington, D.C. **Professional** Memberships **American Congress of Obstetricians and Gynecologists**  Fellow since 2012 **American Society for Reproductive Medicine**  Member since 2007 Society of Reproductive Endocrinology & Infertility (SREI) Member since 2009 **Pacific Coast Reproductive Society** Member since 2009

**Shelby County (TN) OBGYN Society** 

☐ Member since 2012

## Political Experience

## Congressional Internship (Paid)

☐ Office of the Honorable Walter B. Jones, Jr., Washington D.C., Summers of 1996, 1997

ACOG Legislative Workshop (2002) AMPAC Candidate & Campaign Workshop (2002) Lobbying Experience (2002-Present)

☐ Multiple members of U.S. Congress, U.S. Senate, and N.C. Legislature for professional liability reform & other issues

#### **INTERESTS**

#### Black Belt in Go-Ju Karate

Play Violin since age of five

- Member of UNC Symphony Orchestra, 1995 1999
- Regularly perform for church services, weddings, etc.

## Family

- Married in July 2000 to Jennifer Brezina
- Twin children born September 2008 (William & Caroline)

### **Athletics**

- Enjoy running including organized events (5-10Ks)
- Enjoy swimming

# Community Involvement

## **Glenalden Homeowners Association** (Germantown, TN)

- Vice-President, Jan 2013-Jan 2015
- Treasurer & Secretary, Jan 2013-Jan 2015

## Germantown United Methodist Church (Germantown, TN)

- Member (2012 present)
- Actively participate in music program through multiple violin performances (2012 - present)
- Long Term Strategic Planning Committee (2013-Present)
- Stewardship Committee (2013-Present)

## SCIENTIFIC PEER REVIEWEED PUBLICATIONS (48)

- 1) Brezina PR, Marinelli E, Bailey AP. Future implications of human embryonic testing and modification: great medicine or GATTACA? Eur Rev Med Pharmacol Sci. (In Press: Accepted Nov 2015)
- **2) Brezina PR**, Kutteh WH, Bailey AP, Ke RW. PGS is an excellent tool, but not perfect: A guide to counseling patients considering PGS. <u>Fertil Steril.</u> 2015 Oct 19. pii: S00150282(15)02006-3.
- **3) Brezina PR**, Ding J, Klosky JL, Ke RW, Tillmanns TD. Fertility preservation through oocyte cryopreservation in a patient with ovarian dysgerminocarcinoma. <u>J Reprod Med</u>. 2015;60:441-4444

- **4)** Tobler KJ, Zhao Y, Ross R, Benner AT, Broman K, Thrift K, **Brezina PR**, Kearns WG. Blastocoel fluid from differentiated blastocysts harbors cells capable of a whole genome DNA amplification and comprehensive chromosome microarray analysis. <u>Fertil Steril.</u> 2015 Aug;104(2):418-25.
- **5) Brezina PR,** Kutteh WH. Clinical Applications of Preimplantation Genetic Testing: What Technologies to Use and Which Patients Could Benefit? BMJ. 2015 Feb 19;350:g7611.
  - \* British Medical Journal (BMJ) Commissioned Article with Honorarium
  - \* Included in the BMJ "State of the Art Review" Series
- 6) Anchan R, Gerami-Naini B, Lindsey JS, Ho JW, Kiezun A, Lipskind S, Ng N, LiCausi JA, Kim CS, Brezina P, Tuschl T, Maas R, Kearns WG, Williams Z. Efficient Differentiation of Steroidogenic and Germ-Like Cells from Epigenetically-Related iPSCs Derived from Ovarian Granulosa Cells. PLoS One. 2015 Mar 9;10(3):e0119275.
- **7) Brezina PR,** Kutteh WH, Bailey AP, Ke RW, Ding J, Klosky J. Fertility Preservation in the Age of Assisted Reproductive Technologies. <u>Obstet Gynecol Clin North Am.</u> 2015 Mar;42(1):39-54.
- **8) Brezina PR.** Fertility Treatment in the United States: The Case for Increased Access to Care. <u>JFIV Reprod Med Genet.</u> JFIV Reprod Med Genet. 2015; 3: e112. doi:10.4172/2375-4508.1000e112.
- 9) Tobler KJ, Brezina PR, Benner AT, Du L, Xu X, Kearns WG. Two different microarray technologies for preimplantation genetic diagnosis and screening, due to reciprocal translocation imbalances, demonstrate equivalent euploidy and clinical pregnancy rates. J Assist Reprod Genet. 2014;31(7):843-50.
- **10) Brezina PR,** Kutteh WH, Bailey AP, Ding J, Ke RW. Preimplantation Genetic Screening: Pitfalls and Opportunities. <u>OA Genetics.</u> 2014 Feb 18;2(1):2.
- **11)** Tobler KJ, **Brezina P**, Garcia JE, Zhao Y. Sibling Oocytes Randomly Assigned to Either Conventional Fertilization or Intracytoplasmic Sperm Injection Demonstrate Equivalent Fertilization and Blastulation Rates. <u>JFIV Reprod Med Genet.</u> 2014; 2:124 doi: 10.4172/jfiv.1000124.
- **12) Brezina PR,** Kutteh MA, Kearns WG. The Evolving Role of Genetics in Reproductive Medicine. <u>Obstet Gynecol Clin North Am.</u> 2014; 41(1):41-55.
- **13)** Li G, Jin H, Xin Z, Su Y, **Brezina PR**, Benner AT, Kearns WG, Sun Y. Increased Pregnancy Rates for Couples Undergoing In Vitro Fertilization (IVF) and Preimplantation Genetic Diagnosis (PGD) by Microarray Analysis Due to Parental Translocations. <u>Syst Biol Reprod Med</u>. 2014 Apr;60(2):119-24.
- **14) Brezina PR,** Kutteh WH. Classic and Cutting Edge Strategies for the Management of Early Pregnancy Loss. <u>Obstet Gynecol Clin North Am.</u> 2014;41(1):1-18.
- **15) Brezina PR**. Fertility Preservation and Breast Cancer Patients. <u>Austin J In Vitro Fertili.</u> 2015;2(1): 1013.

- **16) Brezina PR**, Mensah V, Balen A, Leong M, Weissman A, Zhao Y, Shoham Z. Fertility management in the PCOS population: results of a web-based survey at IVFworldwide.com. J Assist Reprod Genet. 2013; 30(9):1169-74.
- **17) Brezina PR**, Ke RW, Ding J, Kutteh WH. The Impact of Elective Egg Freezing Technology. <u>J IVF Reprod Med Genet.</u> 2013. 1: e103. doi:10.4172/jfiv.1000e103.
- **18) Brezina PR**, Jaeger P, Kutteh MA, Kearns WG. Preimplantation Genetic Testing. <u>Current Obstetrics and Gynecology Reports</u>. 2013 Aug. doi:10.1007/s13669-013-0055-6.
- **19)** Bishop L, **Brezina PR**, Segars J. Training in embryo transfer: how should it be done? <u>Fertil</u> Steril. 2013;100(2):351-2.
- **20) Brezina PR,** Shah AA, Myers ER, Huang A, DeCherney A. The Evolving Impact of Health Policy on the Delivery of Health Care as it Pertains to Reproductive Endocrinology and Infertility in the United States. <u>Semin Reprod Med.</u> 2013; 31(3): 189-197.
- **21)** Ning N, Balen A, **Brezina PR**, Leong M, Shoham Z, Wallach EE, Zhao Y. How to recognize a PCOS Results of a web based survey on IVF-worldwide.com website. <u>Reprod Biomed Online</u>. 2013 May;26(5):500-5.
- **22) Brezina PR.** Preimplantation Genetic Testing in the 21<sup>st</sup> Century: Uncharted Territory. Clinical Medicine Insights: Reproductive Health. 2013:10;7:17-21.
- **23) Brezina PR,** Brezina DS, Kearns WG. Preimplantation genetic testing. <u>BMJ</u>. 2012;345:e5908.
- **24) Brezina PR**, Ke RW, Kutteh WH. Preimplantation Genetic Screening: A Practical Guide. Clinical Medicine Insights: Reproductive Health. 2013: 27;7:37-42.
- **25) Brezina P,** Ning N, Mitchell E, Zacur HA, Baramki TA, Zhao Y. Recent Advances in Assisted Reproductive Technology. <u>Current Obstetrics and Gynecology Reports.</u> 2012; 1(4):166173.
- **26)** Swelstad BB, **Brezina PR**, Johnson CT, Resetkova N, Woo I, Kolp L. Primary Infertility Associated with Neuroendocrine Tumor (Carcinoid) of the Appendix. <u>Asian Pacific Journal of Reproduction</u>. 2012; 1(2):143-145.
- **27) Brezina PR**, Vlahos NF, Lai T, Garcia JE, Wallach EE, Zhao Y. The Impact of Luteal Phase Support on Endometrial Estrogen and Progesterone Receptor Expression: a Randomized Control Trial. <u>Reprod Biol Endocrinol.</u> 2012; 10(1):16.
- **28) Brezina P,** Christianson MS, Nguyen KHD, Siegel A, Benner AT, Kearns WG. Maternal XX / X Chromosome Mosaicism in Donor Oocyte In Vitro Fertilization (IVF). <u>Middle East Fertility Society Journal</u>. 2012; 17(2): 129-133.
- **29) Brezina PR,** Yunus FN, Zhao Y. Effects of Pharmaceutical Medications on Male Fertility. <u>J</u> Reprod Infertil. 2012; 13(1):3-11.
- **30) Brezina PR**, Zhao Y. The Ethical, Legal, and Social Issues Impacted by Modern Assisted Reproductive Technologies. <u>Obstet Gynecol Int.</u> 2012:2012:686253.
- **31) Brezina P**, Haberl E. Wallach E. At Home Testing: Optimizing Management for the Infertility Physician. <u>Fertil Steril.</u> 2011;95(6):1867-78.

<sup>\*</sup>Featured in Reuters Article: Syndicated by over 100 News Outlets Internationally

J

- **32)** Zhao Y, **Brezina P,** Hsu C, Garcia J, Brinsden PR, Wallach E. In Vitro Fertilization: Four Decades of Reflections and Promises. <u>Biochim Biophys Acta</u>. 2011; 1810(9):843-52.
- **33) Brezina PR**, Benner A, Rechitsky S, Kuliev A, Pomerantseva E, Pauling D, Kearns WG. Single-gene testing combined with single nucleotide polymorphism microarray preimplantation genetic diagnosis for aneuploidy: a novel approach in optimizing pregnancy outcome. <u>Fertil Steril</u>. 2011;95(5):1786.
  - \*Featured in Johns Hopkins University School of Medicine Website Article
    \*JHU Press Release: Syndicated by over 50 News Outlets Internationally
- **34) Brezina P**, Yunus F, Garcia J, Zhao Y. Description of the Parasite Wucheria Bancrofti Microfilariae Identified in Follicular Fluid Following Transvaginal Oocyte Retrieval. <u>Assist Reprod Genet.</u> 2011; 28(5): 433-6.
- **35) Brezina PR**, Kearns WG. Preimplantation Genetic Screening in the Age of 23Chromosome Evaluation; Why FISH is no longer an acceptable technology. <u>J Fertiliz In Vitro.</u> 2011; 1:e103.
- 36) Brezina P, Barker A, Benner A, Ross R, Nguyen K, Anchan R, Richter K, Cutting G, Kearns W. Genetic Normalization of Differentiating Aneuploid Human Embryos. Nature Precedings. 2011 June 23 <a href="http://hdl.handle.net/10101/npre.2011.6045.1">http://hdl.handle.net/10101/npre.2011.6045.1</a> 37)
  Brezina P, Purcell O, Ducie J, Swelstad B, Yates M, Christianson M, Kolp L. Breakage of Suture Material Leading to Fascial Dehiscence. Middle East Fertil Soc J. 2011; 16:87-89.
  38) Zhao Y, Brezina PR. Therapeutic Medications and Male Fertility. J Fertiliz In Vitro. 2011; 1:e104.
- **39) Brezina P**, Zhao Y. Laser Assisted Zona Hatching: What Is the Evidence to Justify its Use? Middle East Fertil Soc J. 2011; 16(2): 107-109.
- **40)** Woelk JL, Dombroski RA, **Brezina PR**. Gestational Diabetes Insipidus, HELLP Syndrome and Eclampsia in a Twin Pregnancy: a Case Report. <u>J Perinatol</u>. 2010; 30(2):144-5.
- **41) Brezina P**, Muasher S. The Art and Science of Embryo Transfer: What Information Are We Lacking? <u>Middle East Fertil Soc J.</u> 2010; 15:14-20.
- **42) Brezina PR**, Beste TM, Nelson KH. Does the Route of Hysterectomy in Obese and NonObese Women Affect Outcome? <u>JSLS.</u> 2009;13:358-363.
- **43) Brezina P**, Woelk J, Brezina D, Devente J. Serous Cystadenoma with Omental Caking and Ovarian Torsion: an Unusual Case Presentation. <u>Clin Exp Obstet Gynecol.</u> 2008; 34(4):284-6.
- **44) Brezina P**, Isler C. Takotsubo Cardiomyopathy in Pregnancy. <u>Obstet Gynecol.</u> 2008; 112(2):450-2.
- **45) Brezina P**, Moskop J. Urgent Medical Decision Making Regarding a Jehovah's Witness Minor: A Case Report and Discussion. <u>N C Med J.</u> 2007; 68(5):312-6.
- **46)** Thomas F, Pittman K, Larkin E, **Berzina P**(Spelling Error), Contreras J, Quarantillo P, Thomas J. Characterization of Xenograft Resistance to Autoimmune Disease Recurrence After Pancreas Islet Transplantation. <u>Transplant Proc.</u> 1999; 31(1-2):964-5.

- **47)** Pittman K, **Berzina P**(Spelling Error), Contreras J, Bilbao G, Thomas F, Thomas J. Synergy of Class I and Class II MHC Deficiency (C1D and C2D) Islets and Early Short-Term Suppression in Achieving Long-Term Islet Graft Survival and Tolerance Induction. Transplant Proc. 1999; 31(1-2):635-6.
- **48)** Thomas FT, Pittman K, **Brezina P**, Wu J, Mountz J, Contreras J, Thomas J. Pancreas Islet Xenografts but not Allografts are Resistant to Autoimmune Disease Recurrence Following Islet Transplantation. <u>Transplant Proc.</u> 1997; 29(1-2):760-1.

## **BOOK CHAPTERS (4)**

- 1) Brezina PR, Zhao Y. In Vitro Fertilization. Reference Module in Biomedical Research, 3rd edition. http://dx.doi.org/10.1016/B978-0-12-801238-3.00262-2 1. Elsevier Reference Module in Biomedical Sciences, (2014).
- 2) Kutteh WH, Ke RW, Brezina PR. A New Algorithm for Evaluation and Treatment of Recurrent Pregnancy Loss. Howard A. Carp, ed. <u>Recurrent Pregnancy Loss: Causes, Controversies, and Treatment, 2<sup>nd</sup> Ed.</u> Boca Raton, FL: CRC Press. Dec 12, 2014 | ISBN-13: 978-1482216141 | Edition: 2014
- **3) Brezina PR,** Kutteh WH. Recurrent Early Pregnancy Loss. In: Falcone Tommaso, Hurd William, eds. <u>Clinical Reproductive Medicine and Surgery: A Practical Guide.</u> 2<sup>nd</sup> ed. New York, NY: Springer. June 30, 2013 | ISBN-13: 9781461468363 | Edition: 2013
- **4) Brezina PR,** Elias RT, Schattman G, Kearns WG. Preimplantation Genetic Diagnosis and Screening: Available and Emerging Technologies. In: Ginsburg ES, Racowsky Catherine, eds. <u>In Vitro Fertilization: A Comprehensive Guide.</u> 1<sup>st</sup> ed. New York, NY: Springer. December 11, 2012 | ISBN-10: 1441998470 | ISBN-13: 978-1441998477 | Edition: 2013

## **ABSTRACTS PRESENTED/PUBLISHED (52)**

- 1) Chuong FS, Tobler KJ, **Brezina PR**, Brenner AT, Du L, Xu X, Boyd B, Kearns WG. All 23 chromosome pairs demonstrate a risk of aneuploidy when performing preimplantation genetic screening (PGS) on differentiated blastocysts. <u>American Society of Reproductive Medicine</u> 70<sup>th</sup> Annual Meeting, Honolulu, Hawaii, October 18-22, 2014, [Poster Presentation] Fertility and sterility 2014;102(3, Supplement):e174-e75.
- 2) Ding J, Yang Y, Brezina P, Ke R, Kutteh W. Transplantation of zona-free cleavage stage embryo into an empty zona with successful blastulation, a case series. <u>American Society of Reproductive Medicine</u> 70<sup>th</sup> Annual Meeting, Honolulu, Hawaii, October 18-22, 2014, [Oral Presentation] Fertility and sterility 2014;102(3, Supplement):e30-e31.
- 3) Klosky JL, Russell KM, Zhang H, Kutteh WH, Brezina P, Simmons JL, Schover LR. Adolescent sperm banking in North America: results from the sbank10 study. <u>American Society of Reproductive Medicine</u> 70<sup>th</sup> Annual Meeting, Honolulu, Hawaii, October 1822, 2014, [Poster Presentation] Fertility and sterility 2014;102(3, Supplement):e159.

- 4) Tobler KJ, Ross R, Benner AT, Du L, **Brezina PR**, Kearns WG. The use of next-generation sequencing (NGS) for preimplantation genetic screening (PGS) and diagnosis (PGD). <u>American Society of Reproductive Medicine</u> 70<sup>th</sup> Annual Meeting, Honolulu, Hawaii, October 18-22, 2014, [Poster Presentation] Fertility and sterility 2014;102(3, Supplement):e184-e85.
- 5) Tobler KJ, Zhao Y, Ross R, Benner AT, Xu X, Du L, Broman K, Thrift K, Brezina PR, Kearns WG. The potential use of blastocoel fluid (BF) from expanded blastocysts as a less invasive form of embryo biopsy for preimplantation genetic testing. <a href="Merican Society of Reproductive Medicine"><u>American Society of Reproductive Medicine</u></a> 70<sup>th</sup> Annual Meeting, Honolulu, Hawaii, October 18-22, 2014, [Poster Presentation] Fertility and sterility 2014;102(3, Supplement):e183-e84.
- 6) Tobler KJ, Zhao Y, Ross R, Benner AT, Xu X, Du L, Broman K, Thrift K, **Brezina PR**, Kearns WG. Blastocoel fluid (BF) harbors embryonic DNA that may result from the marginalization of aneuploid cells during embryogenesis. <u>American Society of Reproductive Medicine</u> 70<sup>th</sup> Annual Meeting, Honolulu, Hawaii, October 18-22, 2014, [Poster Presentation] Fertility and sterility 2014;102(3, Supplement):e205.
- 7) Zarek SM, Brezina PR, Mumford SL, Plowden TC, Coddington CC, Segars JH. Training of reproductive endocrinology and infertility fellows for embryo transfer did not result in a decrement in pregnancy. <u>American Society of Reproductive Medicine</u> 70<sup>th</sup> Annual Meeting, Honolulu, Hawaii, October 18-22, 2014, [Poster Presentation] Fertility and sterility 2014;102(3, Supplement):e230.
- **8) Brezina PR,** Ross R, Dickey R, Benner AT, Kauffmann R, Anchan R, Zhao Y, Tobler KJ, Cutting GR, Kearns WG. Genetic normalization of differentiating aneuploid cleavage stage embryos. <u>American Society of Human Genetics</u> 63<sup>nd</sup> Annual Meeting, Boston, Massachusetts, October 22-26 2013, O-379 [Oral Presentation]
- 9) Dickey RP, St. Amant M, Welch B, Carter J, Potts A, **Brezina PR,** Benner AT, Tobler KJ, Cutting GR, Kearns WG. The first report of a viable, 31 week gestation pregnancy following the transfer of a genetically normalized blastocyst; embryo normalization can occur during differentiation to the blastocyst stage of development. <u>American Society of Human Genetics</u> 63<sup>nd</sup> Annual Meeting, Boston, Massachusetts, October 22-26 2013, P2849 [Poster Presentation]
- 10) Tobler KJ, Brezina PR, Benner AT, Xu X, Du L, Kearns WG. Two different microarray technologies for preimplantation genetic diagnosis (PGD) and screening (PGS), due to reciprocal translocation imbalances, demonstrate equivalent clinical pregnancy rates. <u>American Society of Reproductive Medicine</u> 69<sup>th</sup> Annual Meeting, Boston, Massachusetts, October 12-17 2013, O-117 [Oral Presentation]. <u>Fertil Steril.</u> 2013, 100(3):S36.
- **11)** Dickey RP, Welch B, Carter J, Potts A, **Brezina PR**, Kearns WG. The first report of a viable, 31 week gestation pregnancy following the transfer of a genetically normalized blastocyst; embryo normalization can occur during differentiation to the blastocyst stage of development. <u>American Society of Reproductive Medicine</u> 69<sup>th</sup> Annual Meeting, Boston, Massachusetts, October 12-17 2013, P-1096 [Poster Presentation] <u>Fertil Steril.</u> 2013, 100(3):S464-S465.

- **12) Brezina PR,** Ross R, Kauffmann R, Anchan R, Zhao Y, Kearns WG. Genetic normalization of differentiating aneuploid cleavage stage embryos. <u>American Society of Reproductive Medicine</u> 69<sup>th</sup> Annual Meeting, Boston, Massachusetts, October 12-17 2013, O-227 [Oral Presentation] Fertil Steril. 2013, 100(3):S69.
- **13)** Dickey RP, Welch B, Carter J, Potts A, **Brezina PR,** Kearns WG. Embryo survival to blastocysts after cleavage stage biopsy. <u>American Society of Reproductive Medicine</u> 69<sup>th</sup> Annual Meeting, Boston, Massachusetts, October 12-17 2013, P-1334 [Poster Presentation] <u>Fertil Steril.</u> 2013, 100(3):S531-S532.
- **14) Brezina PR**, Sun Y, Anchan RM, Li G, Zhao Y, Kearns WG. Genetic normalization of day-3 embryos: Results from two independent preimplantation genetic screening laboratories.

  <u>American Society of Human Genetics</u> 62<sup>nd</sup> Annual Meeting, San Francisco, California, November 6-10 2012, O-78 [Oral Presentation]

- **15)** Tobler KJ, **Brezina PR**, Benner AT, Du L, Boyd B, Kearns WG. Outcomes of 687 in vitro fertilization (IVF) cycles and 5871 embryos evaluated using 23-chromosome single nucleotide polymorphism (SNP) microarray preimplantation genetic screening (PGS) for recurrent pregnancy loss (RPL). <u>American Society of Human Genetics</u> 62<sup>nd</sup> Annual Meeting, San Francisco, California, November 6-10 2012, 2998T [Poster Presentation]
- **16) Brezina PR**, Sun Y, Anchan RM, Li G, Zhao Y, Kearns WG. Aneuploid embryos as determined by 23 single nucleotide polymorphism (SNP) microarray preimplantation genetic screening (PGS) possess the potential to genetically normalize during early development. <u>American Society of Reproductive Medicine</u> 68<sup>th</sup> Annual Meeting, San Diego, California, October 20-24 2012, O-364 [Oral Presentation] <u>Fertil Steril.</u> 2012, 98(3):S108.
- 17) Brezina PR, Tobler KJ, Benner AT, Du L, Boyd B, Kearns WG. The majority of women undergoing preimplantation genetic screening (PGS) using 23 chromosome single nucleotide polymorphism (SNP) microarrays will have euploid embryos available for uterine transfer. <a href="Majority of Reproductive Medicine"><u>American Society of Reproductive Medicine</u> 68th Annual Meeting, San Diego, California, October 20-24 2012, P-101 [Poster Presentation] <a href="Fertil Steril"><u>Fertil Steril</u></a>. 2012, 98(3):S141.
- **18) Brezina PR**, Yates MM, Wallach EE, Garcia JE, Kolp LA, Zacur HA. Fellowship training in embryo transfer: The Johns Hopkins experience. <u>American Society of Reproductive Medicine</u> 68<sup>th</sup> Annual Meeting, San Diego, California, October 20-24 2012, P-583 [Poster Presentation] <u>Fertil Steril.</u> 2012, 98(3):S284.
- 19) Tobler KJ, Brezina PR, Benner AT, Du L, Boyd B, Kearns WG. 23-Chromosome single nucleotide polymorphism (SNP) microarray preimplantation genetic screening (PGS) for recurrent pregnancy loss (RPL) in 687 in vitro fertilization (IVF) cycles and 5871 embryos. <u>American Society of Reproductive Medicine</u> 68<sup>th</sup> Annual Meeting, San Diego, California, October 20-24 2012, O-179 [Oral Presentation] <u>Fertil Steril.</u> 2012, 98(3):S54.
- **20)** Tobler KJ, **Brezina PR**, Benner AT, Du L, Xu X, Kearns WG. The chance of having 1 euploid embryo per IVF cycle using 23 chromosome SNP microarray preimplantation genetic screening (PGS) by maternal ages <35, 35-37, 38-40 and >40. <u>Armed Forces District Meeting</u>, Las Vegas, Nevada. October 6-10, 2012, O-37 [Oral Presentation]
- **21)** Tobler KJ, **Brezina PR,** Woo I, Mitchell E, Zhao Y, Garcia J. Fertilization and blastulation rates are similar in sibling oocytes randomly assigned to either conventional in vitro fertilization or intracytoplasmic sperm injection. <u>Armed Forces District Meeting</u>, Las Vegas, Nevada. October 6-10, 2012, O-42 [Oral Presentation]
- **22) Brezina PR,** Benner AT, Garcia J, Zhao Y, Handyside A, Kearns WG. Dense Single Nucleotide Polymorphism (SNP) Microarrays for the Identification of Aneuploidy and Consanguinity in Preimplantation Embryos. <u>Pacific Coast Reproductive Society</u> Annual Meeting, Rancho Mirage, CA, April 18-22, 2012 [Poster Presentation] <u>Fertil Steril.</u> 2012;97(3):S24.

<sup>\*</sup> PCRS Outstanding Poster Award (First Place Among Poster Presentations)

- 23) Brezina PR, Tobler K, Benner AT, Du L, Xu X, Kearns WG. All 23 Chromosomes Have Significant Levels of Aneuploidy in Recurrent Pregnancy Loss Couples. <u>Pacific Coast Reproductive Society</u> Annual Meeting, Rancho Mirage, CA, April 18-22, 2012 [Oral Presentation] Fertil Steril. 2012;97(3):S7.
- **24) Brezina PR,** Tobler K, Benner AT, Du L, Boyd B, Kearns WG. The Incidence of Aneuploidy Does not Significantly Increase with Advancing Paternal Age in Couples with a History of Recurrent Pregnancy Loss. <u>Pacific Coast Reproductive Society</u> Annual Meeting, Rancho Mirage, CA, April 18-22, 2012 [Poster Presentation] <u>Fertil Steril.</u> 2012;97(3):S23.
- **25) Brezina PR**, Tobler K, Benner AT, Du L, Boyd B, Kearns WG. Evaluation of 571 *In Vitro* Fertilization (IVF) Cycels and 4,873 Embryos Using 23-Chromosome Single Nucleotide Polymorphism (SNP) Microarray Preimplantation Genetic Screening (PGS). <u>Pacific Coast Reproductive Society</u> Annual Meeting, Rancho Mirage, CA, April 18-22, 2012 [Poster Presentation] <u>Fertil Steril.</u> 2012;97(3):S23-24.
- **26)** Tobler K, Brezina PR, Benner AT, Du L, Boyd B, Kearns WG. The Incidence of Aneuploidy Significantly Increases After the Age of 40 in Women with a History of Recurrent Pregnancy Loss. <u>Pacific Coast Reproductive Society</u> Annual Meeting, Rancho Mirage, CA, April 18-22, 2012 [Poster Presentation] <u>Fertil Steril.</u> 2012;97(3):S24-25.
- **27) Brezina PR**, Chipko C, Benner AT, Du L, Christianson MS, Kearns WG. Deletions and duplications identified by 23 chromosome single nucleotide polymorphism (SNP) microarray are associated with aneuploidy. <u>American Society of Reproductive Medicine</u> 67<sup>th</sup> Annual Meeting, Orlando, Florida, October 15-19 2011, O-71 [Oral Presentation] Fertil Steril. 2011, 96(4), S21.
- 28) Christianson MS, Brezina PR, Benner AT, Du L, Siegel A, Kearns WG. Chromosomal duplications (≥200 kilobases (KB)) are more common than deletions ≥200 kb in developing human embryos as identified by 23 chromosome single nucleotide polymorphism (SNP) microarray. American Society of Reproductive Medicine 67<sup>th</sup> Annual Meeting, Orlando, Florida, October 15-19 2011, O-72 [Oral Presentation] Fertil Steril. 2011, 96(3), S21-22.
- **29)** Siegel A, **Brezina PR**, Benner AT, Luke D, Gunn M, Kearns WG. 23-chromosome single nucleotide polymorphism (SNP) microarray detects genomic aberrations that may be missed by comparative genomic hybridization(CGH) arrays in preimplantation genetic screening (PGS). <u>American Society of Reproductive Medicine</u> 67<sup>th</sup> Annual Meeting, Orlando, Florida, October 15-19 2011. P-397 [Poster Presentation] <u>Fertil Steril.</u> 2011, 96(3), S224.
- **30)** Benner AT, **Brezina PR**, Du L, Chipko C, Gunn C, Gunn M, Kearns WG. 23-chromosome single nucleotide polymorphism (SNP) microarray preimplantation genetic screening (PGS) on blastocysts, versus day-3 embryos, results in significantly higher clinical pregnancy rates. <u>American Society of Reproductive Medicine</u> 67<sup>th</sup> Annual Meeting, Orlando, Florida, October 15-19, 2011, P-387 [Poster Presentation] <u>Fertil Steril.</u> 2011, 96(3), S221.
- **31)** Du L, **Brezina PR**, Benner AT, Swelstad BB, Gunn M, Kearns WG. The rate of de novo and inherited aneuploidy as determined by 23-chromosome single nucleotide polymorphism microarray (SNP) in embryos generated from parents with known chromosomal

- translocations. <u>American Society of Reproductive Medicine</u> 67<sup>th</sup> Annual Meeting, Orlando, Florida, October 15-19, 2011, P-389 [Poster Presentation] <u>Fertil Steril.</u> 2011, 96(3), S221.
- **32) Brezina PR**, Benner A, Barker A, Richter K, Cutting GR, Kearns WG. Human embryos with aneuploid cells documented at the cleavage stage undergo genetic correction during differentiation to the blastocyst stage. The 12<sup>th</sup> International Congress of Human Genetics (The 61<sup>st</sup> meeting of the American Society of Human Genetics), Montreal, Canada, October 11-15, 2011, O-110 [Oral Presentation]
  - \* Young Investigator Award
- 33) Du L, Brezina PR, Benner AT, Gunn MC, Kearns WG. 23-chromosome single nucleotide polymorphism microarray (SNP) in embryos generated from parents with known chromosomal translocations also identifies a high rate of aneuploidy. The 12<sup>th</sup> International Congress of Human Genetics (The 61<sup>st</sup> meeting of the American Society of Human Genetics), Montreal, Canada, October 11-15, 2011, P1454. [Poster Presentation]
- **34)** Benner AT, **Brezina PR**, Du L, Gunn MC, Kearns WG. Higher clinical pregnancy rates are seen when performing 23-chromosome single nucleotide polymorphism (SNP) microarray preimplantation genetic screening (PGS) on blastocysts, versus Day-3 embryos. The 12<sup>th</sup> International Congress of Human Genetics (The 61<sup>st</sup> meeting of the American Society of Human Genetics), Montreal, Canada, October 11-15, 2011, P1453 [Poster Presentation]
- **35)** Richter K, **Brezina PR**, Benner AT, Du L, Gunn MC, Boyd B, Kearns WG. In women with a history of recurrent pregnancy loss (RPL) under 40 years of age, the rate of aneuploidy seen in embryos is relatively constant with advancing maternal age. The 12<sup>th</sup>

  International Congress of Human Genetics (The 61<sup>st</sup> meeting of the American Society of Human Genetics), Montreal, Canada, October 11-15 2011, P1458 [Poster Presentation]
- **36)** Gunn MC, **Brezina PR**, Benner AT, Du L, Kearns WG. In In developing human embryos, chromosomal duplications (≥200 kilobases (kb)) are more common than deletions ≥200 kb as identified by 23 chromosome single nucleotide polymorphism (SNP) microarrays. The 12<sup>th</sup> International Congress of Human Genetics (The 61<sup>st</sup> meeting of the American Society of Human Genetics), Montreal, Canada, October 11-15 2011, P1455 [Poster Presentation]
- **37)** Kearns WG, **Brezina PR**, Du L, Gunn MC, Benner AT. Aneuploidy in human embryos is associated with clinically significant deletions and duplications identified by 23 chromosome single nucleotide polymorphism (SNP) microarrays. The 12<sup>th</sup> International Congress of Human Genetics (The 61<sup>st</sup> meeting of the American Society of Human Genetics), Montreal, Canada, October 11-15 2011, P1456 [Poster Presentation]
- **38) Brezina PR,** Nguyen KHD, Benner AT, Du L, Ross R, Barker A, Anchan RM, Richter KS, Kearns WG. Aneuploid blastomeres may undergo a process of genetic normalization resulting in euploid blastocysts. <u>European Society of Human Reproduction and Embryology</u> 27th Annual Meeting. Stockholm, Sweden, July 3-6, 2011. [Oral Presentation]

- \* ESHRE Press Release: Syndicated by over 50 News Outlets Internationally
- \* Finalist for the Meeting's Basic Science Award Among Oral Presentations
- \* Featured Article in <u>The Scientist Magazine</u>
- **39)** Gunn M, **Brezina PR,** Benner AT, Du L, Kearns WG. Clinical results on single cells from 310 embryos with known paternal balanced chromosomal translocations using 23chromosome microarray. <u>European Society of Human Reproduction and Embryology</u> 27th Annual Meeting. Stockholm, Sweden, July 3-6, 2011, P-444 [Poster Presentation]
- **40)** Benner AT, **Brezina PR**, Gunn M, Du L, Richter K, Kearns WG. Evaluation of 2,976 embryos using 23-chromosome single nucleotide polymorphism (SNP) microarray preimplantation genetic screening (PGS). <u>European Society of Human Reproduction and Embryology</u> 27th Annual Meeting. Stockholm, Sweden, July 3-6, 2011, P-446 [Poster Presentation]
- **41)** Nguyen K, Ross R, Benner A, Zhao Y, **Brezina P**, Kearns W. Single Nucleotide Polymorphism Microarray Preimplantation Genetic Screening: A Comparison Between Abnormal Day-3 Blastomeres and Corresponding Inner Cell Mass and Trophectoderm Cells. <u>American Society of Human Genetics</u> 60th Annual Meeting. Washington, DC, November 2-6, 2010. O-233. [Oral Presentation]
- **42)** Nguyen K, Ross R, Benner A, Zhao Y, **Brezina P**, Kearns W. Single Nucleotide Polymorphism (SNP) Microarray Preimplantation Genetic Screening (PGS): A Comparison Between Abnormal Day-3 Blastomeres and Corresponding Inner Cell Mass and Trophectoderm Cells. <u>American Society for Reproductive Medicine</u> 66<sup>th</sup> Annual Meeting. Denver, CO, October 23- 27, 2010. O-237. [Oral Presentation] <u>Fertil Steril.</u> 2010, 94(3), S80.
- **43)** Woelk JL, Claydon CS, **Brezina P**, Atkinson SM, Hodson C. Intraoperative Complications of Mid-Urethral Slings in the Obese and Non-Obese. <u>American Urogynecologic Society</u> 29th Annual Meeting, Chicago, IL, September 4-6, 2008. [Poster Presentation]
- **44) Brezina PR**, Nelson KH, Brezina DE, Privette CD, Beste TM. The Impact of Cesarean Section on Hysterectomy Outcome. North Carolina Obstetrical and Gynecological Society/North Carolina Section of the American College of Obstetricians and Gynecologists Annual Meeting, Myrtle Beach, SC, June 27-29, 2008. [Oral Presentation]
- **45) Brezina PR**, Claydon CS, Brezina DE, Nelson KH, Woelk JL, Beste TM, Hodson C. Change in Patient BMI after Hysterectomy. <u>Society for Gynecologic Investigation</u> Annual Meeting, San Diego, CA, March 26-29, 2008. P-824. [Poster Presentation]
- **46) Brezina P,** Beste T, Nelson K. Does Route of Hysterectomy in Obese Women Affect Outcome? North Carolina Obstetrical and Gynecological Society/North Carolina Section of the American College of Obstetricians and Gynecologists Annual Meeting, Asheville, NC, April 27-29, 2007. [Oral Presentation]
- **47)** James F, **Brezina P**. The Influence of Mitochondrial Mutations on the Development of Schizophrenia. <u>Brody School of Medicine Student Research Presentations</u>, Greenville, NC, August, 2000. [Poster Presentation]

- 48) Thomas F, Pittman K, Berzina P(Spelling Error). A "Functional" Antigen- Presenting cell (APC) Knockout: A Study of the Class II Deficient (C2D) Mouse Reconstituted with CD4 Cells. <u>American Society of Transplant Physicians</u>, 16<sup>th</sup> Annual Meeting Scientific Sessions & Business Meeting Program and Abstracts, Chicago IL. May 10-14, 1997. A-467. [Poster Presentation]
- 49) Thomas F, Pittman K, Berzina P(Spelling Error), Contreras J, Thomas J. Autoimmune tolerance (AIT): New Perspective of Immunomodulation Preventing Autoimmune Disease Recurrence (ADR) Following Islet Transplantation (IT). <u>American Society of Transplant Physicians</u>, 16<sup>th</sup> Annual Meeting Scientific Sessions & Business Meeting Program and Abstracts, Chicago IL. May 10-14, 1997. A-402. [Poster Presentation]
- 50) Thomas F, Pittman K, Berzina P(Spelling Error), Contreras J, Thomas J. The (B CellDeficient) XID Mouse Accepts Cardiac Xenografts (CX) Indefinitely but Rejects Cardiac Allografts (CA). <u>American Society of Transplant Physicians</u>, 16<sup>th</sup> Annual Meeting Scientific Sessions & Business Meeting Program and Abstracts, Chicago IL. May 10-14, 1997. A-71. [Poster Presentation]
- 51) Thomas F, Pittman K, Berzina P(Spelling Error), Contreras J, Thomas J. Selective Concentration of Donor Dendritic Cells Reactive to a Cardiac Xenograft (CX) in the Spleen Explains the Importance of Timed Splenectomy (SPLX) in Prolonging CX Survival. <u>American Society of Transplant Surgeons</u>, Chicago, IL. May 14-16, 1997. A69. [Poster Presentation]
- **52)** Thomas F, Henretta J, Pittman K, **Berzina P**(Spelling Error), Thomas J. Skin Allografts (SA), Islet Allografts (IA) and Cardiac Allografts (CA) are Rejected Differently in MHC Class-I Deficient (CID) and Class II- Deficient (C2D) Animals: Are SA Valid and Sufficient Tests of Relevant Rejection Mechanisms? <u>American Society of Transplant Surgeons</u>, Chicago, IL. May 14-16, 1997. A94. [Poster Presentation]

## **NON-PEER REVIEWED PUBLICATIONS**

- 1) Brezina PR. Fertility Preservation and Breast Cancer Patients. Article posted on the American Cancer Society (ACS) breast surgery web page. January 2013.
- **2)** Brezina D, **Brezina P**. Book Review of "Medical Practice Management in the 21<sup>st</sup> Century: The Handbook." <u>Ann Intern Med.</u> 2008; 149:220.
- 3) Brezina P. Air Travel While Pregnant. Wilson Daily Times. 25 Sept. 2007. (Wilson, NC)

## **GRAND ROUNDS/MAJOR PRESENTATIONS**

#### **Grand Rounds**

- Title: Age & Fertility Considerations in Counseling and Care
- <u>University of Tennessee Health Science Center College of Medicine at Chattanooga.</u>
  Department of Obstetrics and Gynecology, Chattanooga, TN November 3, 2015.

#### **Grand Rounds**

- Title: Genetic Testing in Reproductive Medicine: Current Applications and Future Directions
- <u>University of Tennessee Health Science Center College of Medicine at Chattanooga.</u> Department of Obstetrics and Gynecology, Chattanooga, TN November 3, 2015.

## Faculty / Speaker

- Title: Lupron Triggers and Luteal Support
- Midwest Reproductive Symposium. Chicago, IL. June 11-15, 2015.

## Faculty / Speaker

- Title: Technology 24 Chromosome Testing
- Midwest Reproductive Symposium. Chicago, IL. June 11-15, 2015.

## Postgraduate Course Director / Speaker

- Title: Tried and True and New: Management Strategies for Recurrent First Trimester
   Pregnancy Loss 

   The Role of Products of
   Conception
- American Congress of Obstetricians and Gynecologists 63<sup>nd</sup> Annual Clinical Meeting,
   San Francisco, CA, May 5 2015.

## Postgraduate Course Director / Speaker

- Title: Tried and True and New: Management Strategies for Recurrent First Trimester
   Pregnancy Loss 

   The Role of IVF and Preimplantation Genetic Diagnostic
   Testing
- American Congress of Obstetricians and Gynecologists 63<sup>nd</sup> Annual Clinical Meeting,
   San Francisco, CA, May 5 2015.

## Postgraduate Course Director / Speaker

• Title: Tried and True and New: Management Strategies for Recurrent First Trimester Pregnancy Loss  $\circ$  The Role of Endocrine

**Factors** 

• <u>American Congress of Obstetricians and Gynecologists 63<sup>nd</sup> Annual Clinical Meeting</u>, San Francisco, CA, May 5 2015.

Postgraduate Course Director / Speaker

Title: Tried and True and New: Management Strategies for Recurrent First Trimester Pregnancy Loss  $\circ$  The Role of Products of

Conception

 American Congress of Obstetricians and Gynecologists 62<sup>nd</sup> Annual Clinical Meeting, Chicago, IL, May 4 2014.

## Postgraduate Course Director / Speaker

Testing

• Title: Tried and True and New: Management Strategies for Recurrent First Trimester Pregnancy Loss  $\circ$  The Role of IVF and Preimplantation Genetic Diagnostic

• American Congress of Obstetricians and Gynecologists 62<sup>nd</sup> Annual Clinical Meeting, Chicago, IL, May 4 2014.

## Postgraduate Course Director / Speaker

• Title: Tried and True and New: Management Strategies for Recurrent First Trimester Pregnancy Loss  $\circ$  The Role of Endocrine

Factors

 American Congress of Obstetricians and Gynecologists 62<sup>nd</sup> Annual Clinical Meeting, Chicago, IL, May 4 2014.

## **Invited Speaker**

- Title: Fellowship Training and Embryo Transfer
- REI Fellowship Program Director's Meeting at the <u>American Society of Reproductive</u> <u>Medicine</u> 69<sup>th</sup> Annual Meeting, Boston, Massachusetts, October 15, 2013.

## **Grand Rounds**

- Title: Approaches to Diagnosis and Management of Endometriosis
- <u>Saint Agnes Hospital</u> Department of Obstetrics and Gynecology, Baltimore, MD September 11, 2013.

## Faculty course speaker

- Title: SREI and You
- Society of Reproductive Endocrinology and Infertility Annual Fellow Retreat, Park City, UT, Aug 3 2013.

## Postgraduate Course Speaker (#030/SA301)

- Title: Recurrent First Trimester Pregnancy Loss-Classic and Cutting-Edge Strategies 
   The Role of Products of Conception
- American Congress of Obstetricians and Gynecologists 61<sup>st</sup> Annual Clinical Meeting, New Orleans, LA, May 4 2013.

## Postgraduate Course Speaker (#030/SA301)

Title: Recurrent First Trimester Pregnancy Loss-Classic and Cutting-Edge Strategies 
 The Role of IVF and Preimplantation Genetic Diagnostic Testing

 American Congress of Obstetricians and Gynecologists 61<sup>st</sup> Annual Clinical Meeting,
 New Orleans, LA, May 4 2013.

## Postgraduate Course Speaker (#030/SA301)

- Title: Recurrent First Trimester Pregnancy Loss-Classic and Cutting-Edge Strategies 
   The Role of Endocrine Factors
- American Congress of Obstetricians and Gynecologists 61<sup>st</sup> Annual Clinical Meeting, New Orleans, LA, May 4 2013.

## Keynote Speaker

- Title: Genetic Testing in Reproductive Medicine: Current Applications and Future Directions
- Shelby County OBGYN Society Monthly Meeting, Memphis, TN, November 8 2012.

#### Round Table Session Leader

- Title: Preimplantation Genetic Testing: Current Applications
- <u>Pacific Coast Reproductive Society Annual Meeting</u>, Rancho Mirage, CA, April 21 2012.

#### **Grand Rounds**

- Title: Preimplantation Genetic Testing: Available and Emerging Technologies
- <u>University of Tennessee Health Science Center</u> Department of Obstetrics and Gynecology, Memphis, TN April 3 2012.

## **Grand Rounds**

- Title: Preimplantation Genetic Testing: Available and Emerging Technologies
- West Virginia University School of Medicine Department of Obstetrics and Gynecology, Morgantown, WV, March 29 2012.

## The Howard and Georgeanna Jones Jr. Lecture Series

- Title: Preimplantation Genetic Testing: New Applications
- The Johns Hopkins University School of Medicine, Baltimore, MD, Oct 10 2011.

The 2011 Biennial Meeting of The Johns Hopkins Medical and Surgical Association: Gynecology and Obstetrics Program

Title: Genetic Normalization of Differentiating Aneuploid Embryos

• The Johns Hopkins University School of Medicine, Baltimore, MD, June 10 2011.

The Howard and Georgeanna Jones Jr. Lecture Series

- Title: Induced Parthenogenesis in the Setting of IVF
- The Johns Hopkins University School of Medicine, Baltimore, MD, Oct 10 2010.

The Howard and Georgeanna Jones Jr. Lecture Series

- Title: Assisted Reproductive Technologies and the Evolution of Public Opinion and Social Policy
  - The Johns Hopkins University School of Medicine, Baltimore, MD, Nov 12 2009.

## **Major Meetings Attended with Teaching Faculty Designation**

- Faculty: Midwest Reproductive Symposium. Chicago, IL. June 11-15, 2015.
- Program Director for Recurrent Pregnancy Loss / Faculty: American Congress of
   Obstetricians and Gynecologists 63<sup>rd</sup> Annual Clinical Meeting, San Francisco, CA, May 2 2015.
- Program Director for Recurrent Pregnancy Loss / Faculty: American Congress of <u>Obstetricians and Gynecologists 62<sup>nd</sup> Annual Clinical Meeting</u>, Chicago, IL, May 4 2014.
- Faculty: Society of Reproductive Endocrinology and Infertility Annual Fellow Retreat, Park City, UT, Aug 3 2013.
- Faculty: American Congress of Obstetricians and Gynecologists 61<sup>st</sup> Annual Clinical Meeting, New Orleans, LA, May 4 2013.

## **RESEARCH EXPERIENCE**

□ 2009-2015 ○ Evaluated the biologic processes surrounding marginalization of aneuploid cells in otherwise normally developing human embryos through 23 chromosome single nucleotide polymorphism microarrays at the Center for Preimplanation Genetics; Rockville MD and the Johns Hopkins University; Baltimore MD ○ Evaluated the role of preimplantation genetic screening on pregnancy outcomes through 23 chromosome single nucleotide polymorphism microarrays at the Center for Preimplanation Genetics; Rockville MD and the

Johns Hopkins University; Baltimore MD  $\circ$  Conducted various prospective and retrospective trials regarding optimization of IVF protocols and techniques at the Johns Hopkins University;

Baltimore MD  $\circ$  Conducted a trial evaluating the role of hormone therapy on the uterine endometrium as measured by hormone receptors expression at endometrial biopsy at the Johns Hopkins University; Baltimore MD

• 2007 – 2009 ○ Evaluating the impact of hysterectomy and oophrectomy on patient BMI,

Department of OB/GYN, Brody School of Medicine at East Carolina University

- 2005 2009 

   Comparing Total Laparoscopic Hysterectomy to Total Abdominal Hysterectomy in patients with BMI>30, Department of OB/GYN, Brody School of Medicine at East Carolina University
- 2000

- Mitochondrial contribution to schizophrenia, Department of Psychiatry, Brody School of Medicine at East Carolina University
- 1994 1996 Use of immunomodulation therapy and surgical islet transplantation in evaluating treatment for diabetes in rats, Department of Transplant Surgery, Brody School of Medicine at East Carolina University