



Virginia D. Winn, MD, PhD

Associate Professor of Obstetrics and Gynecology (Reproductive and Stem Cell Biology)

Obstetrics & Gynecology - Reproductive Biology

CLINICAL OFFICE (PRIMARY)

- **Perinatal Diagnostic Center**

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

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Bio

BIO

Virginia D. Winn, MD, PhD, is an Associate Professor of Obstetrics and Gynecology at Stanford University, the Director of Reproductive, Stem Cell and Perinatal Biology at Stanford School of Medicine's, and the Program Director for the Women's Reproductive Health Research (K12) at Stanford Program. Dr. Winn received both her PhD training and medical education from the University of Rochester School of Medicine and Dentistry (in 1994 and 1996 respectively.) She completed her OBGYN residency and MFM fellowship at UCSF. She received research training through the NIH-funded Reproductive Scientist Development Program (RSDP). Dr. Winn was on faculty at University of Colorado and from 2006 to 2014 leading a basic and translational NIH-funded research program. She then moved to Stanford in 2014. She is Board Certified in Obstetrics and Gynecology and Maternal and Fetal Medicine from the American Board of Obstetrics and Gynecology.

As a physician scientist, Dr. Winn's ultimate goal is to examine human placental biology and translate findings to improved clinical care resulting in healthier mothers and babies. Her lab uses a combination of molecular, cellular, tissue and translational studies in their research.

Dr. Winn is a member of the Dunlevie Maternal-Fetal Medicine Center for Discovery, Innovation and Clinical Impact, the Maternal and Child Health Research Institute (MCHRI), the Stanford Cardiovascular Institute, BioX. She is a recipient the MCHRI Arline & Pete Harman Faculty Scholar award, and is currently a H&H Evergreen Scholar.

CLINICAL FOCUS

- Maternal and Fetal Medicine

ACADEMIC APPOINTMENTS

- Associate Professor - University Medical Line, Obstetrics & Gynecology - Reproductive Biology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Director of Reproductive, Stem Cell and Perinatal Biology Division, Stanford University School of Medicine, (2014- present)
- Leadership Council, Society of Reproductive Investigation, (2020-2023)
- Basic Science Domain Lead, Dunlevie MFM Center for Discovery, Innovation and Clinical Impact, (2021- present)
- Research Director, NIH K12 Women's Reproductive Health Research, (2020-2025)
- Executive Committee, Stanford Maternal and Child Health Research Institute (MCHRI), (2016- present)
- Evaluation Committee, Reproductive Scientist Development Program (RSDP), (2018- present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Fellow, American Board of Obstetric and Gynecology (2005 - present)
- Member, American College of Obstetrics and Gynecology (2000 - present)
- Full Member, Society of Maternal Fetal Medicine (2003 - present)
- Full Member, Society of Reproductive Investigation (SRI, formerly SGI) (1997 - present)
- Member, AIUM (2018 - present)
- Advisory Board, AAP Perinatal Medicine (2011 - 2014)

PROFESSIONAL EDUCATION

- Board Certification: Maternal and Fetal Medicine, American Board of Obstetrics and Gynecology (2009)
- Board Certification: Obstetrics and Gynecology, American Board of Obstetrics and Gynecology (2005)
- Fellowship: UCSF (2003) CA
- Residency: UCSF (2000) CA
- Medical Education: University of Rochester School of Medicine (1996) NY
- PhD Training: University of Rochester School of Medicine (1994)

LINKS

- Winn Lab: <https://med.stanford.edu/winn>
- Dunlevie Maternal Fetal Medicine Center: <https://dunleviemfm.stanford.edu/>
- Maternal and Child Health Research Institute: <https://med.stanford.edu/mchri.html>
- EPOCH Study: <https://epoch.sites.stanford.edu>
- NatPro Study: <https://www.natprostudy.org/natpromain.asp>
- SUNBEAM study: <https://sunbeamstudy.sites.stanford.edu/>
- HOPE study: <https://www.pregnancylossanswers.org/team>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The Winn Laboratory seeks to understand the unique biological mechanisms of human placentation. While the placenta itself is one of the key characteristics for defining mammals, the human placenta is different from most available animal models: it is one of the most invasive placentas, and results in the formation of an organ comprised of cells from both the fetus and the mother. In addition to this fascinating chimerism, fetal cells are deeply involved in the remodeling of the maternal vasculature in order to redirect large volumes of maternal blood to the placenta to support the developing fetus. As such, the investigation of this human organ covers a large array of biological processes, and deals not only with understanding its endocrine function, but the physiologic process of immune tolerance, vascular remodeling, and cellular invasion.

PROJECTS

- Effect of Preeclampsia on Cardiovascular Health (EPOCH) - Stanford School of Medicine (September 1, 2018 - present)

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Shilpi Sehgal

Doctoral Dissertation Co-Advisor (NonAC)

Kenisha Puckett

Doctoral Dissertation Reader (NonAC)

Alea Delmastro

Postdoctoral Research Mentor

Shilpi Sehgal

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Neonatal-Perinatal Medicine (Fellowship Program)
- Stem Cell Biology and Regenerative Medicine (Phd Program)

Publications

PUBLICATIONS

- **Siglec-6 Signaling Uses Src Kinase Tyrosine Phosphorylation and SHP-2 Recruitment.** *Cells*
Stefanski, A. L., Reneclé, M. D., Kramer, A., Sehgal, S., Narasimhan, P., Rumer, K. K., Winn, V. D.
2022; 11 (21)
- **Sex at the interface: the origin and impact of sex differences in the developing human placenta.** *Biology of sex differences*
Braun, A. E., Mitchel, O. R., Gonzalez, T. L., Sun, T., Flowers, A. E., Pisarska, M. D., Winn, V. D.
2022; 13 (1): 50
- **HMOX1 Genetic Polymorphisms Display Ancestral Diversity and May Be Linked to Hypertensive Disorders in Pregnancy.** *Reproductive sciences (Thousand Oaks, Calif.)*
Sun, T., Cruz, G. I., Mousavi, N., Maric, I., Brewer, A., Wong, R. J., Aghaeepour, N., Sayed, N., Wu, J. C., Stevenson, D. K., Leonard, S. A., Gymrek, M., Winn, et al
2022
- **Early prediction of preeclampsia in pregnancy with cell-free RNA.** *Nature*
Moufarrej, M. N., Vorperian, S. K., Wong, R. J., Campos, A. A., Quaintance, C. C., Sit, R. V., Tan, M., Detweiler, A. M., Mekonen, H., Neff, N. F., Baruch-Gravett, C., Litch, J. A., Druzin, et al
2022
- **Natural vs. programmed cycles for frozen embryo transfer: study protocol for an investigator-initiated, randomized, controlled, multicenter clinical trial.** *Trials*
Baksh, S., Casper, A., Christianson, M. S., Devine, K., Doody, K. J., Ehrhardt, S., Hansen, K. R., Lathi, R. B., Timbo, F., Usadi, R., Vitek, W., Shade, D. M., Segars, et al
2021; 22 (1): 660
- **Examining Sex Differences in the Human Placental Transcriptome During the First Fetal Androgen Peak.** *Reproductive sciences (Thousand Oaks, Calif.)*
Braun, A. E., Muench, K. L., Robinson, B. G., Wang, A., Palmer, T. D., Winn, V. D.
2020

- **Early prediction of preeclampsia via machine learning.** *American journal of obstetrics & gynecology MFM*
Maric, I., Tsur, A., Aghaepour, N., Montanari, A., Stevenson, D. K., Shaw, G. M., Winn, V. D.
2020; 2 (2): 100100
- **Uteroplacental Ischemia Is Associated with Increased PAPP-A2.** *Reproductive sciences (Thousand Oaks, Calif.)*
Lamale-Smith, L. M., Gumina, D. L., Kramer, A. W., Browne, V. A., Toledo-Jaldin, L., Julian, C. G., Winn, V. D., Moore, L. G.
2020
- **Maternal Height and Risk of Preeclampsia among Race/Ethnic Groups** *AMERICAN JOURNAL OF PERINATOLOGY*
Maric, I., Mayo, J. A., Druzin, M. L., Wong, R. J., Winn, V. D., Stevenson, D. K., Shaw, G. M.
2019; 36 (8): 864–71
- **Differential Dynamics of the Maternal Immune System in Healthy Pregnancy and Preeclampsia.** *Frontiers in immunology*
Han, X., Ghaemi, M. S., Ando, K., Peterson, L. S., Ganio, E. A., Tsai, A. S., Gaudilliere, D. K., Stelzer, I. A., Einhaus, J., Bertrand, B., Stanley, N., Culos, A., Tanada, et al
2019; 10: 1305
- **Absent or Excessive Corpus Luteum Number Is Associated With Altered Maternal Vascular Health in Early Pregnancy** *HYPERTENSION*
von Versen-Hoeyneck, F., Narasimhan, P., Tierney, E., Martinez, N., Conrad, K. P., Baker, V. L., Winn, V. D.
2019; 73 (3): 680–90
- **Increased Preeclampsia Risk and Reduced Aortic Compliance With In Vitro Fertilization Cycles in the Absence of a Corpus Luteum** *HYPERTENSION*
von Versen-Hoeyneck, F., Schaub, A. M., Chi, Y., Chiu, K., Liu, J., Lingis, M., Williams, R., Rhoton-Vlasak, A., Nichols, W. W., Fleischmann, R. R., Zhang, W., Winn, V. D., Segal, et al
2019; 73 (3): 640–49
- **Murine trophoblast-derived and pregnancy-associated exosome-enriched extracellular vesicle microRNAs: Implications for placenta driven effects on maternal physiology** *PLOS ONE*
Stefanski, A. L., Martinez, N., Peterson, L. K., Callahan, T. J., Treacy, E., Luck, M., Friend, S. F., Hermes, A., Maltepe, E., Phang, T., Dragone, L. L., Winn, V. D.
2019; 14 (2)
- **Differential expression of human placental PAPP-A2 over gestation and in preeclampsia.** *Placenta*
Kramer, A. W., Lamale-Smith, L. M., Winn, V. D.
2016; 37: 19-25
- **Umbilical Cord Blood Circulating Progenitor Cells and Endothelial Colony-Forming Cells Are Decreased in Preeclampsia.** *Reproductive sciences*
Gumina, D. L., Black, C. P., Balasubramaniam, V., Winn, V. D., Baker, C. D.
2016: 1933719116678692-?
- **Siglec-6 expression is increased in placentas from pregnancies complicated by preterm preeclampsia.** *Reproductive sciences (Thousand Oaks, Calif.)*
Rumer, K. K., Uyenishi, J. n., Hoffman, M. C., Fisher, B. M., Winn, V. D.
2013; 20 (6): 646–53
- **Siglec-6 is expressed in gestational trophoblastic disease and affects proliferation, apoptosis and invasion.** *Endocrine-related cancer*
Rumer, K. K., Post, M. D., Larivee, R. S., Zink, M. n., Uyenishi, J. n., Kramer, A. n., Teoh, D. n., Bogart, K. n., Winn, V. D.
2012; 19 (6): 827–40
- **Gene expression profiling of the human maternal-fetal interface reveals dramatic changes between midgestation and term** *ENDOCRINOLOGY*
Winn, V. D., Haimov-Kochman, R., Paquet, A. C., Yang, Y., Madhusudhan, M. S., Gormley, M., Feng, K. V., Bernlohr, D. A., McDonagh, S., Pereira, L., Sali, A., Fisher, S. J.
2007; 148 (3): 1059-1079
- **Early prediction and longitudinal modeling of preeclampsia from multiomics.** *Patterns (New York, N.Y.)*
Maric, I., Contrepolis, K., Moufarrej, M. N., Stelzer, I. A., Feyaerts, D., Han, X., Tang, A., Stanley, N., Wong, R. J., Traber, G. M., Ellenberger, M., Chang, A. L., Fallahzadeh, et al
2022; 3 (12): 100655
- **Implementation of a comprehensive fertility biobanking initiative.** *F&S science*
Wignarajah, A., Alvero, R., Lathi, R. B., Aghajanova, L., Eisenberg, M., Winn, V. D., Behr, B., Murugappan, G.

2022; 3 (3): 228-236

- **Extracellular Vesicles in Preeclampsia: Can Small Packages Carry a Big Punch?** *Anesthesia and analgesia*
Hess, P. E., Winn, V. D.
2022; 134 (4): 710-712
- **Coronary blood vessels from distinct origins converge to equivalent states during mouse and human development.** *eLife*
Phansalkar, R., Krieger, J., Zhao, M., Kolluru, S. S., Jones, R. C., Quake, S. R., Weissman, I., Bernstein, D., Winn, V. D., D'Amato, G., Red-Horse, K.
1800; 10
- **Coronary blood vessels from distinct origins converge to equivalent states during mouse and human development** *ELIFE*
Phansalkar, R., Krieger, J., Zhao, M., Kolluru, S., Jones, R. C., Quake, S. R., Weissman, I., Bernstein, D., Winn, V. D., D'Amato, G., Red-Horse, K.
2021; 10
- **Endocardial/endothelial angiocrines regulate cardiomyocyte development and maturation and induce features of ventricular non-compaction.** *European heart journal*
Rhee, S., Paik, D. T., Yang, J. Y., Nagelberg, D., Williams, I., Tian, L., Roth, R., Chandy, M., Ban, J., Belbachir, N., Kim, S., Zhang, H., Phansalkar, et al
2021
- **Noninvasive Prediction of Preeclampsia in Pregnancy with Circulating RNA.**
Moufarrej, M. N., Wong, R. J., Campos, A. A., Quaintance, C. C., Sit, R. V., Tan, M., Neff, N. F., Druzin, M. L., Winn, V. D., Shaw, G. M., Stevenson, D. K., Quake, S. R.
SPRINGER HEIDELBERG.2021: 75A
- **Multi-Omic, Longitudinal Profile of Third-Trimester Pregnancies Identifies a Molecular Switch That Predicts the Onset of Labor.**
Stelzer, I., Ghaemi, M., Han, X., Ando, K., Hedou, J., Feyaerts, D., Peterson, L., Ganio, E., Tsai, A., Tsai, E., Rumer, K., Stanley, N., Fallazadeh, et al
SPRINGER HEIDELBERG.2021: 233A-234A
- **Integrated trajectories of the maternal metabolome, proteome, and immunome predict labor onset.** *Science translational medicine*
Stelzer, I. A., Ghaemi, M. S., Han, X., Ando, K., Hedou, J. J., Feyaerts, D., Peterson, L. S., Rumer, K. K., Tsai, E. S., Ganio, E. A., Gaudilliere, D. K., Tsai, A. S., Choisy, et al
2021; 13 (592)
- **Association of Preconception Paternal Health and Adverse Maternal Outcomes among Healthy Mothers.** *American journal of obstetrics & gynecology MFM*
Murugappan, G., Li, S., Leonard, S., Winn, V. D., Druzin, M., Eisenberg, M. L.
2021: 100384
- **A Letter to President Biden and Secretary Designate of HHS Xavier Becerra: Remove Barriers to Federal Funding of Human Embryo and Fetal Tissue Research.** *Reproductive sciences (Thousand Oaks, Calif.)*
Santoro, N., Caplan, A., Strauss, J., Winn, V. D.
2021
- **Proteomic signatures predict preeclampsia in individual cohorts but not across cohorts - implications for clinical biomarker studies.** *The journal of maternal-fetal & neonatal medicine : the official journal of the European Association of Perinatal Medicine, the Federation of Asia and Oceania Perinatal Societies, the International Society of Perinatal Obstetricians*
Ghaemi, M. S., Tarca, A. L., Romero, R. n., Stanley, N. n., Fallazadeh, R. n., Tanada, A. n., Culos, A. n., Ando, K. n., Han, X. n., Blumenfeld, Y. J., Druzin, M. L., El-Sayed, Y. Y., Gibbs, et al
2021: 1-8
- **Inflammatory cytokines, placental pathology, and neurological outcomes in infants born to preterm preeclamptic mothers.** *PLoS one*
Sotiros, A., Thornhill, D., Post, M. D., Winn, V. D., Armstrong, J.
2021; 16 (11): e0260094
- **Single-Cell Analysis of the Neonatal Immune System Across the Gestational Age Continuum.** *Frontiers in immunology*
Peterson, L. S., Hedou, J., Ganio, E. A., Stelzer, I. A., Feyaerts, D., Harbert, E., Adusumelli, Y., Ando, K., Tsai, E. S., Tsai, A. S., Han, X., Ringle, M., Houghteling, et al
2021; 12: 714090
- **Multimic immune clockworks of pregnancy.** *Seminars in immunopathology*
Peterson, L. S., Stelzer, I. A., Tsai, A. S., Ghaemi, M. S., Han, X. n., Ando, K. n., Winn, V. D., Martinez, N. R., Contrepois, K. n., Moufarrej, M. N., Quake, S. n., Relman, D. A., Snyder, et al

2020

- **Multionics Characterization of Preterm Birth in Low- and Middle-Income Countries.** *JAMA network open*
Jehan, F. n., Sazawal, S. n., Baqui, A. H., Nisar, M. I., Dhingra, U. n., Khanam, R. n., Ilyas, M. n., Dutta, A. n., Mitra, D. K., Mehmood, U. n., Deb, S. n., Mahmud, A. n., Hotwani, et al
2020; 3 (12): e2029655
- **Changes in pregnancy-related serum biomarkers early in gestation are associated with later development of preeclampsia.** *PloS one*
Hao, S. n., You, J. n., Chen, L. n., Zhao, H. n., Huang, Y. n., Zheng, L. n., Tian, L. n., Maric, I. n., Liu, X. n., Li, T. n., Bianco, Y. K., Winn, V. D., Aghaeepour, et al
2020; 15 (3): e0230000
- **Multionics modeling of the immunome, transcriptome, microbiome, proteome and metabolome adaptations during human pregnancy.** *Bioinformatics (Oxford, England)*
Ghaemi, M. S., DiGiulio, D. B., Contrepolis, K., Callahan, B., Ngo, T. T., Lee-McMullen, B., Lehallier, B., Robaczewska, A., Mcilwain, D., Rosenberg-Hasson, Y., Wong, R. J., Quaintance, C., Culos, et al
2019; 35 (1): 95–103
- **Data-driven queries between medications and spontaneous preterm birth among 2.5 million pregnancies.** *Birth defects research*
Mari#, I. n., Winn, V. D., Borisenko, E. n., Weber, K. A., Wong, R. J., Aziz, N. n., Blumenfeld, Y. J., El-Sayed, Y. Y., Stevenson, D. K., Shaw, G. M.
2019
- **Occurrence of Selected Structural Birth Defects Among Women With Preeclampsia and Other Hypertensive Disorders** *AMERICAN JOURNAL OF EPIDEMIOLOGY*
Weber, K. A., Mayo, J. A., Carmichael, S. L., Stevenson, D. K., Winn, V. D., Shaw, G. M.
2018; 187 (4): 668–76
- **Placental lipoprotein lipase activity is positively associated with newborn adiposity** *PLACENTA*
Heerwagen, M. R., Gumina, D. L., Hernandez, T. L., Van Pelt, R. E., Kramer, A. W., Janssen, R. C., Jensen, D. R., Powell, T. L., Friedman, J. E., Winn, V. D., Barbour, L. A.
2018; 64: 53–60
- **An immune clock of human pregnancy** *SCIENCE IMMUNOLOGY*
Aghaeepour, N., Ganio, E. A., Mcilwain, D., Tsai, A. S., Tingle, M., Van Gassen, S., Gaudilliere, D. K., Baca, Q., McNeil, L., Okada, R., Ghaemi, M. S., Furman, D., Wong, et al
2017; 2 (15)
- **An immune clock of human pregnancy.** *Science immunology*
Aghaeepour, N. n., Ganio, E. A., Mcilwain, D. n., Tsai, A. S., Tingle, M. n., Van Gassen, S. n., Gaudilliere, D. K., Baca, Q. n., McNeil, L. n., Okada, R. n., Ghaemi, M. S., Furman, D. n., Wong, et al
2017; 2 (15)
- **A Proteomic Clock of Human Pregnancy.** *American journal of obstetrics and gynecology*
Aghaeepour, N. n., Lehallier, B. n., Baca, Q. n., Ganio, E. A., Wong, R. J., Ghaemi, M. S., Culos, A. n., El-Sayed, Y. Y., Blumenfeld, Y. J., Druzin, M. L., Winn, V. D., Gibbs, R. S., Tibshirani, et al
2017
- **A novel quantitative microarray antibody capture (Q-MAC) assay identifies an extremely high HDV prevalence amongst HBV infected Mongolians.** *Hepatology*
Chen, X., Oidovsambu, O., Liu, P., Grosely, R., Elazar, M., Winn, V. D., Fram, B., Boa, Z., Dai, H., Dashtseren, B., Yagaanbuyant, D., Genden, Z., Dashdorj, et al
2016
- **Mapping the Fetomaternal Peripheral Immune System at Term Pregnancy.** *Journal of immunology*
Fragiadakis, G. K., Baca, Q. J., Gherardini, P. F., Ganio, E. A., Gaudilliere, D. K., Tingle, M., Lancero, H. L., McNeil, L. S., Spitzer, M. H., Wong, R. J., Shaw, G. M., Darmstadt, G. L., Sylvester, et al
2016
- **Characterization of choline transporters in the human placenta over gestation** *PLACENTA*
Baumgartner, H. K., Trinder, K. M., Galimanis, C. E., Post, A., Phang, T., Ross, R. G., Winn, V. D.
2015; 36 (12): 1362-1369

- **Hepatitis C Virus Sensing by Human Trophoblasts Induces Innate Immune Responses and Recruitment of Maternal NK Cells: Potential Implications for Limiting Vertical Transmission.** *Journal of immunology*
Giugliano, S., Petroff, M. G., Warren, B. D., Jasti, S., Linscheid, C., Ward, A., Kramer, A., Dobrinskikh, E., Sheiko, M. A., Gale, M., Golden-Mason, L., Winn, V. D., Rosen, et al
2015; 195 (8): 3737-3747
- **Baseline placental growth factor levels for the prediction of benefit from early aspirin prophylaxis for preeclampsia prevention** *PREGNANCY HYPERTENSION-AN INTERNATIONAL JOURNAL OF WOMENS CARDIOVASCULAR HEALTH*
Moore, G. S., Allshouse, A. A., Winn, V. D., Galan, H. L., Heyborne, K. D.
2015; 5 (4): 280-286
- **A Hertzian contact mechanics based formulation to improve ultrasound elastography assessment of uterine cervical tissue stiffness** *JOURNAL OF BIOMECHANICS*
Briggs, B. N., Stender, M. E., Muljadi, P. M., Donnelly, M. A., Winn, V. D., Ferguson, V. L.
2015; 48 (9): 1524-1532
- **Inflammatory predictors of neurologic disability after preterm premature rupture of membranes.** *American journal of obstetrics and gynecology*
Armstrong-Wells, J. n., Donnelly, M. n., Post, M. D., Manco-Johnson, M. J., Winn, V. D., Sébire, G. n.
2015; 212 (2): 212.e1-9
- **Maternal and fetal alternative complement pathway activation in early severe preeclampsia.** *American journal of reproductive immunology (New York, N.Y. : 1989)*
Hoffman, M. C., Rumer, K. K., Kramer, A. n., Lynch, A. M., Winn, V. D.
2014; 71 (1): 55-60
- **Patterns of placental pathology in preterm premature rupture of membranes** *JOURNAL OF DEVELOPMENTAL ORIGINS OF HEALTH AND DISEASE*
Armstrong-Wells, J., Post, M. D., Donnelly, M., Manco-Johnson, M. J., Fisher, B. M., Winn, V. D.
2013; 4 (3): 249-255
- **The discovery of a reciprocal relationship between tyrosine-kinase signaling and cullin neddylation.** *PloS one*
Friend, S. F., Peterson, L. K., Treacy, E. n., Stefanski, A. L., Sosinowski, T. n., Pennock, N. D., Berger, A. J., Winn, V. D., Dragone, L. L.
2013; 8 (10): e75200
- **Prenatal diagnosis and identification of heterozygous frameshift mutation in PRRX1 in an infant with agnathia-otocephaly** *PRENATAL DIAGNOSIS*
Donnelly, M., Todd, E., Wheeler, M., Winn, V. D., Kamnasaran, D.
2012; 32 (9): 903-905
- **Pandemic influenza A H1N1 2009 infection versus vaccination: a cohort study comparing immune responses in pregnancy.** *PloS one*
Fisher, B. M., Van Bockern, J. n., Hart, J. n., Lynch, A. M., Winn, V. D., Gibbs, R. S., Weinberg, A. n.
2012; 7 (3): e33048
- **Pre-eclampsia is associated with elevated CXCL12 levels in placental syncytiotrophoblasts and maternal blood** *EUROPEAN JOURNAL OF OBSTETRICS & GYNECOLOGY AND REPRODUCTIVE BIOLOGY*
Schanz, A., Winn, V. D., Fisher, S. J., Blumenstein, M., Heiss, C., Hess, A. P., Kruessel, J. S., McMaster, M., North, R. A.
2011; 157 (1): 32-37
- **Behaviors and perceptions regarding seasonal and H1N1 influenza vaccination during pregnancy** *AMERICAN JOURNAL OF OBSTETRICS AND GYNECOLOGY*
Fisher, B. M., Scott, J., Hart, J., Winn, V. D., Gibbs, R. S., Lynch, A. M.
2011; 204 (6): S107-S111
- **The Impact of Preeclampsia on Gene Expression at the Maternal-Fetal Interface.** *Pregnancy hypertension*
Winn, V. D., Gormley, M. n., Fisher, S. J.
2011; 1 (1): 100-108
- **Uterine Torsion in Delayed Diagnosis of Abnormal Anterior Placentation A Report of 2 Cases** *JOURNAL OF REPRODUCTIVE MEDICINE*
Metz, T., Trierweiler, M., Arrigo, A., Winn, V. D.
2009; 54 (5): 322-324
- **Severe Preeclampsia-Related Changes in Gene Expression at the Maternal-Fetal Interface Include Sialic Acid-Binding Immunoglobulin-Like Lectin-6 and Pappalysin-2** *ENDOCRINOLOGY*

- Winn, V. D., Gormley, M., Paquet, A. C., Kjaer-Sorensen, K., Kramer, A., Rumer, K. K., Haimov-Kochman, R., Yeh, R., Overgaard, M. T., Varki, A., Oxvig, C., Fisher, S. J.
2009; 150 (1): 452-62
- **Vasculogenesis and angiogenesis in the IUGR placenta** *SEMINARS IN PERINATOLOGY*
Arroyo, J. A., Winn, V. D.
2008; 32 (3): 172-177
 - **Overexpression of carcinoma and embryonic cytotrophoblast cell-specific Mig-7 induces invasion and vessel-like structure formation** *AMERICAN JOURNAL OF PATHOLOGY*
Petty, A. P., Garman, K. L., Winn, V. D., Spidel, C. M., Lindsey, J.
2007; 170 (5): 1763-1780
 - **Cytotrophoblast induction of arterial apoptosis and lymphangiogenesis in an in vivo model of human placentation** *JOURNAL OF CLINICAL INVESTIGATION*
Red-Horse, K., Rivera, J., Schanz, A., Zhou, Y., Winn, V., Kapidzic, M., Maltepe, E., Okazaki, K., Kochman, R., Vo, K., Giudice, L., Erlebacher, A., McCune, et al
2006; 116 (10): 2643-52
 - **Modification of the standard trizol-based technique improves the integrity of RNA isolated from RNase-rich placental tissue** *CLINICAL CHEMISTRY*
Haimov-Kochman, R., Fisher, S. J., Winn, V. D.
2006; 52 (1): 159-160
 - **Echogenic intracardiac focus - Potential for misdiagnosis** *JOURNAL OF ULTRASOUND IN MEDICINE*
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