

Stanford



Gary M. Shaw

NICU Nurses Professor and Professor (Research), by courtesy, of Epidemiology and Population Health and of Obstetrics and Gynecology (Maternal Fetal Medicine)
Pediatrics - Neonatal and Developmental Medicine

Bio

BIO

Research interests include; epidemiology of birth defects; gene-environment approaches to perinatal outcomes; and nutrition and reproductive outcomes. I currently serve as Co-PI of the March of Dimes Prematurity Research Center at Stanford, PI of the California Center Finding Causes and Preventives of Birth Defects, and formerly a PI for UC Berkeley/Stanford Children's Environmental Health Center.

ACADEMIC APPOINTMENTS

- Professor (Research), Pediatrics - Neonatal and Developmental Medicine
- Professor (Research) (By courtesy), Epidemiology and Population Health
- Professor (Research) (By courtesy), Obstetrics & Gynecology - Maternal Fetal Medicine
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Chair, Committee on Graduate Studies, Stanford University, (2018-2020)
- Associate Chair Clinical Research, Dept of Pediatrics, (2012- present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Associate Editor, Am J Med Genetics (2008 - present)
- Associate Editor, Birth Defects Res A (2005 - present)

PROFESSIONAL EDUCATION

- DrPH, UC Berkeley , Epidemiology (1986)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Primary research interests include 1) epidemiology of birth defects, 2) gene-environment approaches to perinatal outcomes, and 3) nutrition and reproductive outcomes.

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Richard Liang

Postdoctoral Faculty Sponsor

Julia Marlow

Doctoral Dissertation Co-Advisor (AC)

Saskia Comess

Master's Program Advisor

Julia Marlow

Publications

PUBLICATIONS

- **Upstream oil and gas production and ambient air pollution in California** *SCIENCE OF THE TOTAL ENVIRONMENT*
Gonzalez, D. X., Francis, C. K., Shaw, G. M., Cullen, M. R., Baiocchi, M., Burke, M.
2022; 806
- **Early-pregnancy prediction of risk for pre-eclampsia using maternal blood leptin/ceramide ratio: discovery and confirmation.** *BMJ open*
Huang, Q., Hao, S., You, J., Yao, X., Li, Z., Schilling, J., Thyparambil, S., Liao, W., Zhou, X., Mo, L., Ladella, S., Davies-Balch, S. R., Zhao, et al
2021; 11 (11): e050963
- **Trends in eclampsia in the United States, 2009-2017: a population-based study.** *Journal of hypertension*
Xiao, M. Z., Whitney, D., Guo, N., Bentley, J., Shaw, G. M., Druzin, M. L., Butwick, A. J.
2021
- **Newborn screen metabolic panels reflect the impact of common disorders of pregnancy.** *Pediatric research*
Reiss, J. D., Chang, A. L., Mayo, J. A., Bianco, K., Lee, H. C., Stevenson, D. K., Shaw, G. M., Aghaeepour, N., Sylvester, K. G.
2021
- **Black swans and ambitious overgeneralization in newborn intensive care.** *Pediatric research*
Stevenson, D. K., Wong, R. J., Shaw, G. M., Aghaeepour, N., Maric, I., Prince, L. S., Reiss, J. D., Katz, M.
2021
- **THE ASSOCIATION OF PRECONCEPTION PATERNAL METABOLIC SYNDROME ON EARLY CHILDHOOD EMERGENCY DEPARTMENT VISITS AND HOSPITALIZATION: ANALYSIS OF US CLAIMS DATA**
Chen, T., Zhang, C., Li, S., Shaw, G., Schroeder, A., Eisenberg, M.
LIPPINCOTT WILLIAMS & WILKINS.2021: E526
- **Homelessness in pregnancy: perinatal outcomes.** *Journal of perinatology : official journal of the California Perinatal Association*
St Martin, B. S., Spiegel, A. M., Sie, L., Leonard, S. A., Seidman, D., Girsan, A. I., Shaw, G. M., El-Sayed, Y. Y.
2021
- **Associations between wildfire smoke exposure during pregnancy and risk of preterm birth in California.** *Environmental research*
Heft-Neal, S., Driscoll, A., Yang, W., Shaw, G., Burke, M.
2021: 111872
- **Exome sequencing of child-parent trios with bladder exstrophy: Findings in 26 children.** *American journal of medical genetics. Part A*
Pitsava, G., Feldkamp, M. L., Pankratz, N., Lane, J., Kay, D. M., Conway, K. M., Shaw, G. M., Reefhuis, J., Jenkins, M. M., Almli, L. M., Olshan, A. F., Pangilinan, F., Brody, et al
2021
- **Stillbirth as left truncation for early neonatal death in California, 1989-2015: a time-series study.** *BMC pregnancy and childbirth*
Bruckner, T. A., Gailey, S., Das, A., Gemmill, A., Casey, J. A., Catalano, R., Shaw, G. M., Zeitlin, J.
2021; 21 (1): 478
- **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
 - **Association of Gestational Age with Postpartum Hemorrhage: An International Cohort Study** *ANESTHESIOLOGY*
Butwick, A. J., Liu, C., Guo, N., Bentley, J., Main, E. K., Mayo, J. A., Shaw, G. M., Stephansson, O.
2021; 134 (6): 874-886
 - **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)
 - **Trends in Spontaneous and Medically Indicated Preterm Birth in Twins versus Singletons: A California Cohort 2007 to 2011.** *American journal of perinatology*
Ness, A., Mayo, J. A., El-Sayed, Y. Y., Druzin, M. L., Stevenson, D. K., Shaw, G. M.
2021
 - **Nitrate in Drinking Water during Pregnancy and Spontaneous Preterm Birth: A Retrospective Within-Mother Analysis in California.** *Environmental health perspectives*
Sheris, A. R., Baiocchi, M., Fendorf, S., Luby, S. P., Yang, W., Shaw, G. M.
2021; 129 (5): 57001
 - **Greenspace, Air Pollution, Neighborhood Factors, and Preeclampsia in a Population-Based Case-Control Study in California** *INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH*
Weber, K. A., Yang, W., Lyons, E., Stevenson, D. K., Padula, A. M., Shaw, G. M.
2021; 18 (10)
 - **The relationship between air pollutants and maternal socioeconomic factors on preterm birth in California urban counties.** *Journal of exposure science & environmental epidemiology*
Mekonnen, Z. K., Oehlert, J. W., Eskenazi, B., Shaw, G. M., Balmes, J. R., Padula, A. M.
2021
 - **African American Unemployment and the Disparity in Periviable Births.** *Journal of racial and ethnic health disparities*
Catalano, R., Karasek, D., Bruckner, T., Casey, J. A., Saxton, K., Ncube, C. N., Shaw, G. M., Elser, H., Gemmill, A.
2021
 - **Understanding how biologic and social determinants affect disparities in preterm birth and outcomes of preterm infants in the NICU.** *Seminars in perinatology*
Stevenson, D. K., Aghaeepour, N., Maric, I., Angst, M. S., Darmstadt, G. L., Druzin, M. L., Gaudilliere, B., Ling, X. B., Moufarrej, M. N., Peterson, L. S., Quake, S. R., Relman, D. A., Snyder, et al
2021: 151408
 - **Interdisciplinary Data Science to Advance Environmental Health Research and Improve Birth Outcomes.** *Environmental research*
Stingone, J. A., Triantafyllou, S., Larsen, A., Kitt, J. P., Shaw, G. M., Marsillach, J.
2021: 111019
 - **Genome-wide investigation identifies a rare copy-number variant burden associated with human spina bifida.** *Genetics in medicine : official journal of the American College of Medical Genetics*
Wolujewicz, P., Aguiar-Pulido, V., AbdelAleem, A., Nair, V., Thareja, G., Suhre, K., Shaw, G. M., Finnell, R. H., Elemento, O., Ross, M. E.
2021
 - **Gene-environment interactions between air pollution and biotransformation enzymes and risk of birth defects.** *Birth defects research*
Padula, A. M., Yang, W., Schultz, K., Lee, C., Lurmann, F., Hammond, S. K., Shaw, G. M.
2021
 - **Timing of Transfer and Mortality in Neonates with Hypoplastic Left Heart Syndrome in California.** *Pediatric cardiology*

- Purkey, N. J., Ma, C., Lee, H. C., Hintz, S. R., Shaw, G. M., McElhinney, D. B., Carmichael, S. L.
2021
- **Paternal genetic variants and risk of obstructive heart defects: A parent-of-origin approach.** *PLoS genetics*
Patel, J. n., Bircan, E. n., Tang, X. n., Orloff, M. n., Hobbs, C. A., Browne, M. L., Botto, L. D., Finnell, R. H., Jenkins, M. M., Olshan, A. n., Romitti, P. A., Shaw, G. M., Werler, et al
2021; 17 (3): e1009413
 - **Deleterious and Protective Psychosocial and Stress-Related Factors Predict Risk of Spontaneous Preterm Birth.** *American journal of perinatology*
Becker, M. n., Mayo, J. A., Phogat, N. K., Quaintance, C. C., Laborde, A. n., King, L. n., Gotlib, I. H., Gaudilliere, B. n., Angst, M. S., Shaw, G. M., Stevenson, D. K., Aghaepour, N. n., Dhabhar, et al
2021
 - **Interpregnancy intervals and adverse birth outcomes in high-income countries: An international cohort study.** *PLoS one*
Tessema, G. A., Marinovich, M. L., Haberg, S. E., Gissler, M., Mayo, J. A., Nassar, N., Ball, S., Betran, A. P., Gebremedhin, A. T., de Klerk, N., Magnus, M. C., Marston, C., Regan, et al
2021; 16 (7): e0255000
 - **Corrigendum: Investigating Pregnancy and Its Complications Using Circulating Cell-Free RNA in Women's Blood During Gestation.** *Frontiers in pediatrics*
Moufarrej, M. N., Wong, R. J., Shaw, G. M., Stevenson, D. K., Quake, S. R.
2021; 9: 680201
 - **Measuring Variation in Interpregnancy Interval: Identifying Hotspots for Improvement Initiatives.** *American journal of perinatology*
Karakash, S. D., Main, E. K., Chang, S. C., Shaw, G. M., Stevenson, D. K., Gould, J. B.
2021
 - **Decreased Mortality Rate Among COVID-19 Patients Prescribed Statins: Data From Electronic Health Records in the US.** *Frontiers in medicine*
Maric, I., Oskotsky, T., Kostic, I., Le, B., Wong, R. J., Shaw, G. M., Sirota, M., Stevenson, D. K.
2021; 8: 639804
 - **Data-Driven Modeling of Pregnancy-Related Complications.** *Trends in molecular medicine*
Espinosa, C. n., Becker, M. n., Mari#, I. n., Wong, R. J., Shaw, G. M., Gaudilliere, B. n., Aghaepour, N. n., Stevenson, D. K.
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., Fallahzadeh, 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
 - **Maternal Exposure to Disinfection By-Products and Risk of Hypospadias in the National Birth Defects Prevention Study (2000-2005).** *International journal of environmental research and public health*
Zaganjor, I., Luben, T. J., Desrosiers, T. A., Keil, A. P., Engel, L. S., Michalski, A. M., Carmichael, S. L., Nembhard, W. N., Shaw, G. M., Reefhuis, J., Yazdy, M. M., Langlois, P. H., Feldkamp, et al
2020; 17 (24)
 - **Parental age and preterm birth: a population-based cohort of nearly 3 million California livebirths from 2007 to 2012.** *Journal of perinatology : official journal of the California Perinatal Association*
Mayo, J. A., Lu, Y., Stevenson, D. K., Shaw, G. M., Eisenberg, M. L.
2020
 - **Maternal metabolic profiling to assess fetal gestational age and predict preterm delivery: a two-centre retrospective cohort study in the US.** *BMJ open*
Sylvester, K. G., Hao, S., You, J., Zheng, L., Tian, L., Yao, X., Mo, L., Ladella, S., Wong, R. J., Shaw, G. M., Stevenson, D. K., Cohen, H. J., Whitin, et al
2020; 10 (12): e040647
 - **Reproductive sequelae of parental severe illness before the pandemic: implications for the COVID-19 pandemic.** *Fertility and sterility*
Kasman, A. M., Bhambhani, H. P., Li, S., Zhang, C. A., Stevenson, D. K., Shaw, G. M., Simard, J. F., Eisenberg, M. L.
2020; 114 (6): 1242–49

- **Infant Allergy Testing and Food Allergy Diagnoses Before and After Guidelines for Early Peanut Introduction.** *The journal of allergy and clinical immunology. In practice*
Lo, R. M., Purington, N., McGhee, S. A., Mathur, M. B., Shaw, G. M., Schroeder, A. R.
2020
- **Singleton preterm birth rates for racial and ethnic groups during the coronavirus disease 2019 pandemic in California.** *American journal of obstetrics and gynecology*
Main, E. K., Chang, S., Carpenter, A. M., Wise, P. H., Stevenson, D. K., Shaw, G. M., Gould, J. B.
2020
- **Integration of mechanistic immunological knowledge into a machine learning pipeline improves predictions** *NATURE MACHINE INTELLIGENCE*
Culos, A., Tsai, A. S., Stanley, N., Becker, M., Ghaemi, M. S., McIlwain, D. R., Fallahzadeh, R., Tanada, A., Nassar, H., Espinosa, C., Xenochristou, M., Ganio, E., Peterson, et al
2020
- **Congenital diaphragmatic hernia and maternal dietary nutrient pathways and diet quality.** *Birth defects research*
Carmichael, S. L., Ma, C., Witte, J. S., Yang, W., Rasmussen, S. A., Brunelli, L., Nestoridi, E., Shaw, G. M., Feldkamp, M. L., National Birth Defects Prevention Study
2020
- **Newborn Iodine Status Is Not Related to Congenital Hypothyroidism.** *The Journal of nutrition*
Mills, J. L., Reische, E. C., Kannan, K., Gao, C., Shaw, G. M., Sundaram, R.
2020
- **Towards personalized medicine in maternal and child health: integrating biologic and social determinants.** *Pediatric research*
Stevenson, D. K., Wong, R. J., Aghaeepour, N., Maric, I., Angst, M. S., Contrepolis, K., Darmstadt, G. L., Druzin, M. L., Eisenberg, M. L., Gaudilliere, B., Gibbs, R. S., Gotlib, I. H., Gould, et al
2020
- **Effects of Selective Exclusion of Patients on Preterm Birth Test Performance** *OBSTETRICS AND GYNECOLOGY*
McElrath, T. F., Cantonwine, D., Stevenson, D. K., Shaw, G. M., Aghaeepour, N., Quake, S.
2020; 135 (5): 1228–29
- **Postpartum LARC Among the Privately Insured-Use After Preterm and Term Births**
Goldthwaite, L., Maric, I., Shaw, K. A., Stevenson, D. K., Shaw, G.
LIPPINCOTT WILLIAMS & WILKINS.2020: 108S–109S
- **Early prediction of preeclampsia via machine learning.** *American journal of obstetrics & gynecology MFM*
Maric, I., Tsur, A., Aghaeepour, N., Montanari, A., Stevenson, D. K., Shaw, G. M., Winn, V. D.
2020; 2 (2): 100100
- **Progressive Metabolic Dysfunction and Nutritional Variability Precedes Necrotizing Enterocolitis.** *Nutrients*
Sinclair, T. J., Ye, C., Chen, Y., Zhang, D., Li, T., Ling, X. B., Cohen, H. J., Shaw, G. M., Stevenson, D. K., Chace, D., Clark, R. H., Sylvester, K. G.
2020; 12 (5)
- **Maternal occupational exposure to polycyclic aromatic hydrocarbons and the risk of isolated congenital heart defects among offspring.** *Environmental research*
Patel, J., Nembhard, W. N., Politis, M. D., Rocheleau, C. M., Langlois, P. H., Shaw, G. M., Romitti, P. A., Gilboa, S. M., Desrosiers, T. A., Insaf, T., Lupo, P. J., National Birth Defects Prevention Study
2020; 186: 109550
- **Quantification of selection bias in studies of risk factors for birth defects among livebirths.** *Paediatric and perinatal epidemiology*
Heinke, D., Rich-Edwards, J. W., Williams, P. L., Hernandez-Diaz, S., Anderka, M., Fisher, S. C., Desrosiers, T. A., Shaw, G. M., Romitti, P. A., Canfield, M. A., Yazdy, M. M., National Birth Defects Prevention Study
2020
- **Association of preconception paternal health on perinatal outcomes: analysis of U.S. claims data.** *Fertility and sterility*
Kasman, A. M., Zhang, C. A., Li, S., Stevenson, D. K., Shaw, G. M., Eisenberg, M. L.
2020
- **Maternal dietary fat intake and the risk of congenital heart defects in offspring.** *Pediatric research*

- Collins, R. T., Yang, W., Carmichael, S. L., Bolin, E. H., Nembhard, W. N., Shaw, G. M., National Birth Defects Prevention Study
2020
- **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., Peterson, L., Contrepois, K., Ganio, E., Tsai, A., Tsai, E., Rumer, K., Stanley, N., Fallazadeh, R., Becker, et al
SPRINGER HEIDELBERG.2020: 89A
 - **Loss of RAD9B impairs early neural development and contributes to the risk for human spina bifida.** *Human mutation*
Cao, X. n., Tian, T. n., Steele, J. W., Cabrera, R. M., Aguiar-Pulido, V. n., Wadhwa, S. n., Bhavani, N. n., Bi, P. n., Gargurevich, N. H., Hoffman, E. N., Cai, C. Q., Marini, N. J., Yang, et al
2020
 - **Racial/ethnic disparities and human milk use in necrotizing enterocolitis.** *Pediatric research*
Goldstein, G. P., Pai, V. V., Liu, J. n., Sigurdson, K. n., Vernon, L. B., Lee, H. C., Sylvester, K. G., Shaw, G. M., Profit, J. n.
2020; 88 (Suppl 1): 3–9
 - **Associations between interpregnancy interval and preterm birth by previous preterm birth status in four high-income countries: a cohort study.** *BJOG : an international journal of obstetrics and gynaecology*
Marinovich, M. L., Regan, A. K., Gissler, M. n., Magnus, M. C., Håberg, S. E., Mayo, J. A., Shaw, G. M., Bell, J. n., Nassar, N. n., Ball, S. n., Gebremedhin, A. T., Marston, C. n., de Klerk, et al
2020
 - **Outcome of cerclage in pregnancies without a prior preterm birth**
Chueh, J., Ness, A., Mayo, J. A., El-Sayed, Y. Y., Shaw, G. M., Stevenson, D. K.
MOSBY-ELSEVIER.2020: S672–S673
 - **Vaginal progesterone treatment is associated with intrahepatic cholestasis of pregnancy**
Tsur, A., Kan, P., Datoc, I., Leonard, S. A., Girsens, A., Shaw, G. M., Stevenson, D. K., El-Sayed, Y. Y., Druzin, M. L., Blumenfeld, Y. J.
MOSBY-ELSEVIER.2020: S58–S59
 - **Do women who delivered at 34-36 weeks need serial transvaginal ultrasound cervical lengths?**
Ness, A., Chueh, J., Mayo, J. A., Shaw, G. M., El Sayed, Y., Stevenson, D. K.
MOSBY-ELSEVIER.2020: S401
 - **Male-to-female ratios among NTDs and women's periconceptional intake of folic acid.** *Birth defects research*
Shaw, G. M., Yang, W. n., Finnell, R. H.
2020
 - **Effects of Selective Exclusion of Patients on Preterm Birth Test Performance.** *Obstetrics and gynecology*
McElrath, T. F., Cantonwine, D. n., Stevenson, D. K., Shaw, G. M., Aghaepour, N. n., Quake, S. n.
2020; 135 (5): 1228–29
 - **Residential proximity to green space and preeclampsia in California.** *Environmental epidemiology (Philadelphia, Pa.)*
Weber, K. A., Lyons, E. n., Yang, W. n., Stevenson, C. n., Stevenson, D. K., Shaw, G. M.
2020; 4 (6): e120
 - **Multiomics 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
 - **Association between preconception paternal health and pregnancy loss in the USA: an analysis of US claims data.** *Human reproduction (Oxford, England)*
Kasman, A. M., Zhang, C. A., Li, S. n., Lu, Y. n., Lathi, R. B., Stevenson, D. K., Shaw, G. M., Eisenberg, M. L.
2020
 - **Oil and gas production and spontaneous preterm birth in the San Joaquin Valley, CA: A case-control study.** *Environmental epidemiology (Philadelphia, Pa.)*
Gonzalez, D. J., Sherris, A. R., Yang, W. n., Stevenson, D. K., Padula, A. M., Baiocchi, M. n., Burke, M. n., Cullen, M. R., Shaw, G. M.
2020; 4 (4): e099
 - **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
- **Investigating Pregnancy and Its Complications Using Circulating Cell-Free RNA in Women's Blood During Gestation.** *Frontiers in pediatrics*
Moufarrej, M. N., Wong, R. J., Shaw, G. M., Stevenson, D. K., Quake, S. R.
2020; 8: 605219
 - **Periconceptional stressors and social support and risk for adverse birth outcomes.** *BMC pregnancy and childbirth*
Weber, K. A., Carmichael, S. L., Yang, W. n., Tinker, S. C., Shaw, G. M.
2020; 20 (1): 487
 - **VoPo leverages cellular heterogeneity for predictive modeling of single-cell data.** *Nature communications*
Stanley, N. n., Stelzer, I. A., Tsai, A. S., Fallahzadeh, R. n., Ganio, E. n., Becker, M. n., Phongprecha, T. n., Nassar, H. n., Ghaemi, S. n., Maric, I. n., Culos, A. n., Chang, A. L., Xenochristou, et al
2020; 11 (1): 3738
 - **Integration of mechanistic immunological knowledge into a machine learning pipeline improves predictions.** *Nature machine intelligence*
Culos, A. n., Tsai, A. S., Stanley, N. n., Becker, M. n., Ghaemi, M. S., McIlwain, D. R., Fallahzadeh, R. n., Tanada, A. n., Nassar, H. n., Espinosa, C. n., Xenochristou, M. n., Ganio, E. n., Peterson, et al
2020; 2 (10): 619–28
 - **Mid-gestation serum lipidomic profile associations with spontaneous preterm birth are influenced by body mass index.** *PloS one*
Borkowski, K., Newman, J. W., Aghaeepour, N., Mayo, J. A., Blazenovic, I., Fiehn, O., Stevenson, D. K., Shaw, G. M., Carmichael, S. L.
2020; 15 (11): e0239115
 - **FKBP8 variants are risk factors for spina bifida.** *Human molecular genetics*
Tian, T. n., Cao, X. n., Kim, S. E., Lin, Y. L., Steele, J. W., Cabrera, R. M., Karki, M. n., Yang, W. n., Marini, N. J., Hoffman, E. N., Han, X. n., Hu, C. n., Wang, et al
2020
 - **Defining critical factors in multi-country studies of assisted reproductive technologies (ART): data from the US and UK health systems.** *Journal of assisted reproduction and genetics*
Eisenberg, M. L., Luke, B. n., Cameron, K. n., Shaw, G. M., Pacey, A. A., Sutcliffe, A. G., Williams, C. n., Gardiner, J. n., Anderson, R. A., Baker, V. L.
2020
 - **Preterm birth outcomes among Asian women by maternal place of birth.** *Journal of perinatology : official journal of the California Perinatal Association*
Girsen, A. I., Mayo, J. A., Datoc, I. A., Karakash, S. n., Gould, J. B., Stevenson, D. K., El-Sayed, Y. Y., Shaw, G. M.
2020
 - **Still- and Live Births in the Perivable Period.** *Annals of epidemiology*
Elser, H. n., Gemmill, A. n., Casey, J. A., Karasek, D. n., Bruckner, T. n., Mayo, J. A., Lee, H. C., Stevenson, D. K., Shaw, G. M., Catalano, R. n.
2020
 - **Evaluation of US State-Level Variation in Hypertensive Disorders of Pregnancy.** *JAMA network open*
Butwick, A. J., Druzin, M. L., Shaw, G. M., Guo, N. n.
2020; 3 (10): e2018741
 - **High-throughput quantitation of serological ceramides/dihydroceramides by LC/MS/MS: Pregnancy baseline biomarkers and potential metabolic messengers.** *Journal of pharmaceutical and biomedical analysis*
Huang, Q. n., Hao, S. n., Yao, X. n., You, J. n., Li, X. n., Lai, D. n., Han, C. n., Schilling, J. n., Hwa, K. Y., Thyparambil, S. n., Whitin, J. n., Cohen, H. J., Chubb, et al
2020; 192: 113639
 - **Multomic 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
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 - **Survival of infants with congenital diaphragmatic hernia in California: impact of hospital, clinical, and sociodemographic factors.** *Journal of perinatology : official journal of the California Perinatal Association*

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