

**Meeting Highlights**

**New Technologies in Obstetrics and Gynecology**

*University of Iowa Obstetrics and Gynecology Postgraduate Conference  
Hyatt Regency Coralville, Coralville, IA.  
November 4, 2022*

**Poster Presentations**

**Exposure to E-cigarettes reduces PLAC1 expression in Trophoblast cells.** Kori M. Burkey,<sup>1</sup> Eric J. Devor,<sup>2</sup> Hannah J. Slowey,<sup>3</sup> Emily S. Leibold,<sup>2</sup> Hans-Joachim Lehmler,<sup>4</sup> Wei Bao,<sup>5</sup> Vernat Exil,<sup>6</sup> Mark K. Santillan,<sup>2</sup> Donna A. Santillan<sup>2</sup>

**Arginine Vasopressin Infusion Is Sufficient to Cause Pregnancy-Specific Cardiac Hypertrophy.** Brandon M. Schickling,<sup>2</sup> Serena Gumusoglu,<sup>2</sup> Donna A. Santillan,<sup>2</sup> Mark K. Santillan<sup>2</sup>

**Prolapse, Pelvic Pain, and Pelvic Floor Muscle Dysfunction.** Anuradha Gore,<sup>1</sup> Kimberly Kenne,<sup>2</sup> Joseph Kowalski,<sup>2</sup> Catherine Bradley<sup>2</sup>

**Gynecologic Tumor Organoid Molecules for Therapeutic Efficacy.** Jessica Andrew-Udoh,<sup>2</sup> Kristina Thiel<sup>2</sup>

**Aspirin Reduces Triglycerides in Both Preeclamptic and Non-Preeclamptic Pregnancies.** Donna A. Santillan,<sup>2</sup> Tarynne E. Kinghorn,<sup>1</sup> Debra S. Brandt,<sup>2</sup> Ashlyn S. Kenne,<sup>2</sup> Emily S. Leibold,<sup>2</sup> Monica C. Myers,<sup>2</sup> Wendy S. Hamilton,<sup>2</sup> Mark K. Santillan<sup>2</sup>

**The Impact of a vasopressin model of preeclampsia on neurodevelopment and neuroimmune outcomes in mouse offspring.** Serena B. Gumusoglu,<sup>2</sup> Akanksha S. Chilukuri,<sup>3</sup> Salma Haider,<sup>3</sup> Jeremy A. Sandgren,<sup>6</sup> Mark K. Santillan,<sup>2</sup> Donna A. Santillan,<sup>2</sup> Justin L. Grobe,<sup>7</sup> Hanna E. Stevens<sup>8</sup>

**Psychiatric and Obstetric Disease Share Vascular Mechanisms in the RGS2 Knockout Mouse.** Kaylee Weaver,<sup>3</sup> Serena Gumusoglu,<sup>2</sup> Michaela Kiel,<sup>1</sup> Brandon Schickling,<sup>2</sup> Marisol Lauffer,<sup>9</sup> Hannah Sullivan,<sup>1</sup> Kaylie Coulter,<sup>3</sup> Yuping Zhang,<sup>2</sup> Eric J. Devor,<sup>2</sup> Donna A. Santillan,<sup>2</sup> Mark K. Santillan<sup>2</sup>

**Examining the association between preterm birth and geographic disparities in the MFM Physician Workforce.** Andrea Greiner,<sup>2</sup> Sina Haeri,<sup>10</sup> Ann Davis,<sup>3</sup> Nichole Nidey<sup>11</sup>

**Examining Geographic Access to Maternal-Fetal Medicine Care across the United States.** Nichole Nidely,<sup>11</sup> Sina Haeri,<sup>10</sup> Andrea Greiner<sup>2</sup>

**The Impact of Body Position on Blood Pressure Measurements in**

**Pregnant People.** Mark K. Santillan,<sup>2</sup> Grace E. Drinane,<sup>2</sup> Ally Karras,<sup>2</sup> Madeline E. Holm,<sup>2</sup> Sydney Pearl,<sup>2</sup> Daniel M. Zagoren,<sup>12</sup> Madeleine Hodgson,<sup>2</sup> Lara Baker,<sup>2</sup> Monica C. Myers,<sup>2</sup> Maria Werner-Anderson,<sup>12</sup> Molly Brennan,<sup>3</sup> Debra S. Brandt,<sup>2</sup> Donna A. Santillan<sup>2</sup>

**Determining Whether Aberrant Vasopressin Concentrations Persist Postpartum.** Meghan L. Funk,<sup>13</sup> Donna A. Santillan,<sup>2</sup> Debra Brandt,<sup>2</sup> Amy Stroud,<sup>8</sup> Virginia Nuckols,<sup>14</sup> Gary L. Pierce,<sup>14</sup> Mark K. Santillan<sup>2</sup>

**Depression in the time of Covid-19: Examination of Prenatal and postpartum depression rates, rurality, and the impact of COVID-19.** Ana M. DiSpirito,<sup>1</sup> Mark K. Santillan,<sup>2</sup> Stephen K. Hunter,<sup>2</sup> Serena Gumusoglu,<sup>2</sup> Julie Vignato,<sup>15</sup> Elissa Faro,<sup>16</sup> Heather A. Davis,<sup>17</sup> Boyd Knosp,<sup>1</sup> Donna A. Santillan<sup>2</sup>

**Cord Blood Metabolomics and Autism Spectrum Disorder.** Serena Gumusoglu,<sup>2</sup> Brandon Schickling,<sup>2</sup> Donna A. Santillan,<sup>2</sup> Mark K. Santillan<sup>2</sup>

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