

PUBLICATIONS

Peer-Reviewed Publications (1-301)

1. Arenas-Hernandez M, Romero R, St Louis D, **Hassan SS**, Kaye EB, Gomez-Lopez N. An imbalance between innate and adaptive immune cells at the maternal-fetal interface occurs prior to endotoxin-induced preterm birth. *Cell Mol Immunol*. 2016 Jul; 13:462-73. [Epub 2015 Apr 6] PMID: 25849119
2. Neelavalli J, Krishnamurthy U, Jella PK, Mody SS, Yadav BK, Hendershot K, Hernandez-Andrade E, Yeo L, Cabrera MD, Haacke EM, **Hassan SS**, Romero R. Magnetic resonance angiography of fetal vasculature at 3.0 T. *Eur Radiol*. [Epub **2016 May 17**] PMID: 27189488
3. Chaiworapongsa T, Romero R, Korzeniewski SJ, Chaemsaitong P, Hernandez-Andrade E, Segars JH, DeCherney AH, McCoy MC, Kim CJ, Yeo L, **Hassan SS**. Letter to the Editor. Pravastatin for the prevention of adverse pregnancy outcome: preeclampsia and more? *J Matern Fetal Neonatal Med*. [Epub **2016 May 10**] PMID: 27161513
4. Furcron AE, Romero R, Mial TN, Balancio A, Panaitescu B, **Hassan SS**, Sahi A, Nord C, Gomez-Lopez N. Human chorionic gonadotropin has anti-inflammatory effects at the maternal-fetal interface and prevents endotoxin-induced preterm birth, but causes dystocia and fetal compromise in mice. *Biol Reprod*. 2016 Jun; 94:136. [Epub **2016 May 4**] PMID: 27146032
5. Korzeniewski SJ, Romero R, Chaiworapongsa T, Chaemsaitong P, Kim CJ, Kim YM, Kim JS, Yoon BH, **Hassan SS**, Yeo L. Maternal plasma angiogenic index-1 (placental growth factor/soluble vascular endothelial growth factor receptor-1) is a biomarker for the burden of placental lesions consistent with uteroplacental underperfusion: a longitudinal case-cohort study. *Am J Obstet Gynecol*. **2016 May**; 214:629.e1-629.e17. [Epub 2015 Dec 11] PMID: 26688491
6. Garcia M, Yeo L, Romero R, Haggerty D, Giardina I, **Hassan SS**, Chaiworapongsa T, Hernandez-Andrade E. Prospective evaluation of the fetal heart using Fetal Intelligent Navigation Echocardiography (FINE). *Ultrasound Obstet Gynecol*. **2016 Apr**; 47:450-9. [Epub 2016 Mar 10] PMID: 26278116
7. Chaiworapongsa T, Romero R, Whitten AE, Korzeniewski SJ, Chaemsaitong P, Hernandez-Andrade E, Yeo L, **Hassan SS**. The use of angiogenic biomarkers in maternal blood to identify which SGA fetuses will require a preterm delivery and mothers who will develop pre-eclampsia. *J Matern Fetal Neonatal Med*. **2016 Apr**; 29(8):1214-28. [Epub 2015 Aug 14] PMID: 26303962

8. Mazaki-Tovi S, Tarca AL, Vaisbuch E, Kusanovic JP, Than NG, Chaiworapongsa T, Dong Z, **Hassan SS**, Romero R. Characterization of visceral and subcutaneous adipose tissue transcriptome in pregnant women with and without spontaneous labor at term: implication of alternative splicing in the metabolic adaptations of adipose tissue to parturition. *J Perinat Med*. [Epub **2016 Mar 19**] PMID: 26994472
9. Xu Y, Romero R, Miller D, Kadam L, Mial TN, Plazyo O, Garcia-Flores V, **Hassan SS**, Xu Z, Tarca AL, Drewlo S, Gomez-Lopez N. An M1-like macrophage polarization in decidual tissue during spontaneous preterm labor that is attenuated by rosiglitazone treatment. *J Immunol*. **2016 Mar 15**;196:2476-91. [Epub 2016 Feb 17] PMID: 26889045
10. Romero R, Xu Y, Plazyo O, Chaemsathong P, Chaiworapongsa T, Unkel R, Than NG, Chiang PJ, Dong Z, Xu Z, Tarca AL, Abrahams VM, **Hassan SS**, Yeo L, Gomez-Lopez N. A role for the inflammasome in spontaneous labor at term. *Am J Reprod Immunol*. [Epub **2016 Mar 8**] PMID: 26952361
11. Chaiworapongsa T, Romero R, Korzeniewski SJ, Chaemsathong P, Hernandez-Andrade E, Segars JH, DeCherney AH, McCoy MC, Kim CJ, Yeo L, **Hassan SS**. Pravastatin to prevent recurrent fetal death in massive perivillous fibrin deposits of the placenta (MPFD). *J Matern Fetal Neonatal Med*. **2016 Mar**; 29(6):855-62. [Epub 2015 Apr 20] PMID: 25893545
12. St Louis D, Romero R, Plazyo O, Arenas-Hernandez M, Panaitescu B, Xu Y, Milovic T, Xu Z, Bhatti G, Mi QS, Drewlo S, Tarca AL, **Hassan SS**, Gomez-Lopez N. Invariant NKT cell activation induces late preterm birth that is attenuated by rosiglitazone. *J Immunol*. **2016 Feb 1**:196:1044-59. [Epub 2016 Jan 6] PMID: 26740111
13. Chaemsathong P, Romero R, Korzeniewski SJ, Martinez-Varea A, Dong Z, Yoon BH, **Hassan SS**, Chaiworapongsa T, Yeo L. A rapid interleukin-6 bedside test for the identification of intra-amniotic inflammation in preterm labor with intact membranes. *J Matern Fetal Neonatal Med*. **2016 Feb**;29(3): 349-59. [Epub 2015 Sep 25] PMID: 25758618
14. Chaemsathong P, Romero R, Korzeniewski SJ, Martinez-Varea A, Dong Z, Yoon BH, **Hassan SS**, Chaiworapongsa T, Yeo L. A point of care test for interleukin-6 in amniotic fluid in preterm prelabor rupture of membranes: a step toward the early treatment of acute intra-amniotic inflammation/infection. *J Matern Fetal Neonatal Med*. **2016 Feb**; 29(3):360-7. [Epub 2015 Mar 23] PMID: 25758620
15. Romero R, Chaemsathong P, Korzeniewski SJ, Tarca AL, Bhatti G, Xu Z, Kusanovic JP, Dong Z, Docheva N, Martinez-Varea A, Yoon BH, **Hassan SS**, Chaiworapongsa T, Yeo L. Clinical chorioamnionitis at term II: the intra-amniotic inflammatory response. *J Perinat Med*. **2016 Jan**; 44:5-22. PMID: 25938217

16. Romero R, Chaemsaitong P, Korzeniewski SJ, Kusanovic JP, Docheva N, Martinez-Varea A, Ahmed AI, Yoon BH, **Hassan SS**, Chaiworapongsa T, Yeo L. Clinical chorioamnionitis at term III: how well do clinical criteria perform in the identification of proven intra-amniotic infection? *J Perinat Med*. **2016 Jan**; 44:23-32. PMID: 25918914
17. Romero R, Chaemsaitong P, Docheva N, Korzeniewski SJ, Tarca AL, Bhatti G, Xu Z, Kusanovic JP, Dong Z, Chaiyasit N, Ahmed AI, Yoon BH, **Hassan SS**, Chaiworapongsa T, Yeo L. Clinical chorioamnionitis at term IV: the maternal plasma cytokine profile. *J Perinat Med*. **2016 Jan**; 44:77-98. PMID: 26352068
18. Romero R, Chaemsaitong P, Docheva N, Korzeniewski SJ, Tarca AL, Bhatti G, Xu Z, Kusanovic JP, Chaiyasit N, Dong Z, Yoon BH, **Hassan SS**, Chaiworapongsa T, Yeo L, Kim YM. Clinical chorioamnionitis at term V: umbilical cord plasma cytokine profile in the context of a systemic maternal inflammatory response. *J Perinat Med*. **2016 Jan**; 44:53-76. PMID: 26360486
19. Romero R, Chaemsaitong P, Docheva N, Korzeniewski SJ, Kusanovic JP, Yoon BH, Kim JS, Chaiyasit N, Ahmed AI, Qureshi F, Jacques SM, Kim CJ, **Hassan SS**, Chaiworapongsa T, Yeo L, Kim YM. Clinical chorioamnionitis at term VI: acute chorioamnionitis and funisitis according to the presence or absence of microorganisms and inflammation in the amniotic cavity. *J Perinat Med*. **2016 Jan**; 44:33-51. PMID: 26352071
20. Gomez-Lopez N, Romero R, Plazyo O, Panaitescu B, Furcron AE, Miller D, Roumayah T, Flom E, **Hassan SS**. Intra-amniotic administration of HMGB1 induces spontaneous preterm labor and birth. *Am J Reprod Immunol*. **2016 Jan**; 75:3-7. PMID: 26781934
21. Tang X, Hernandez-Andrade E, Ahn H, Garcia M, Saker H, Korzeniewski SJ, Tarca AL, Yeo L, **Hassan SS**, Romero R. Intermediate diastolic velocity as a parameter of cardiac dysfunction in growth-restricted fetuses. *Fetal Diagn Ther*. **2016 Jan**; 39:28-39. [Epub 2015 Aug 12] PMID: 26279291
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
22. Mazaki-Tovi S, Vaisbuch E, Tarca AL, Kusanovic JP, Than NG, Chaiworapongsa T, Dong Z, **Hassan SS**, Romero R. Characterization of visceral and subcutaneous adipose tissue transcriptome and biological pathways in pregnant and non-pregnant women: evidence for pregnancy-related regional-specific differences in adipose tissue. *PLoS ONE*. **2015 Dec 4**; 10(12):e0143779. PMID: 26636677
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.

23. Romero R, Grivel JC, Tarca AL, Chaemsaitong P, Xu Z, Fitzgerald W, **Hassan SS**, Chaiworapongsa T, Margolis L. Evidence of perturbations of the cytokine network in preterm labor. *Am J Obstet Gynecol.* **2015 Dec**; 213:836.e1-e18. [Epub 2015 Jul 29] PMID: 26232508
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
24. Furcron AE, Romero R, Plazyo O, Unkel R, Xu Y, **Hassan SS**, Chaemsaitong P, Mahajan A, Gomez-Lopez N. Vaginal progesterone, but not 17 α -hydroxyprogesterone caproate, has anti-inflammatory effects at the murine maternal-fetal interface. *Am J Obstet Gynecol.* **2015 Dec**; 213:846.e1-e19. [Epub 2015 Aug 8]
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
25. Kyathanahalli C, Organ K, Moreci RS, Anamthathmakula P, **Hassan SS**, Caritis SN, Jeyasuria P, Condon JC. Uterine endoplasmic reticulum stress-unfolded protein response regulation of gestational length is caspase-3 and -7-dependent. *Proc Natl Acad Sci USA.* **2015 Nov 10**; 112:14090-5. [Epub 2015 Oct 26] PMID: 26504199
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
26. Hernandez-Andrade E, Garcia M, Ahn H, Korzeniewski SJ, Saker H, Yeo L, Chaiworapongsa T, **Hassan SS**, Romero R. Strain at the internal cervical os assessed with quasi-static elastography is associated with the risk of spontaneous preterm delivery at ≤ 34 weeks of gestation. *J Perinat Med.* **2015 Nov**; 43:657-66. [Epub 2015 Mar 14] PMID: 25781664
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
27. Chaemsaitong P, Romero R, Korzeniewski SJ, Dong Z, Yeo L, **Hassan SS**, Kim YM, Yoon BH, Chaiworapongsa T. A point of care test for the determination of amniotic fluid interleukin-6 and the chemokine CXCL-10/IP-10. *J Matern Fetal Neonatal Med.* **2015 Sep**; 28:1510-9. [Epub 2014 Oct 20] PMID: 25182862
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
28. Kim YM, Chaemsaitong P, Romero R, Shaman M, Kim CJ, Kim JS, Qureshi F, Jacques SM, Ahmed AI, Chaiworapongsa T, **Hassan SS**, Yeo L, Korzeniewski SJ. Placental lesions associated with acute atherosclerosis. *J Matern Fetal Neonatal Med.* **2015 Sep**; 28:1554-62. [Epub 2014 Oct 30] PMID: 25183023
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
29. Kim YM, Chaemsaitong P, Romero R, Shaman M, Kim CJ, Kim JS, Qureshi F, Jacques SM, Ahmed AI, Chaiworapongsa T, **Hassan SS**, Yeo L, Korzeniewski SJ. The frequency of acute atherosclerosis in normal pregnancy and preterm labor, preeclampsia, small-for-gestational age, fetal death and midtrimester spontaneous abortion. *J Matern Fetal Neonatal Med.* **2015 Sept**; 28(17):2001-9. [Epub 2014 Nov 11] PMID: 25308204
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.

30. Romero R, Miranda J, Chaemsaithong P, Chaiworapongsa T, Kusanovic JP, Dong Z, Ahmed AI, Shaman M, Lannaman K, Yoon BH, **Hassan SS**, Kim CJ, Korzeniewski SJ, Yeo L, Kim YM. Sterile and microbial-associated intra-amniotic inflammation in preterm prelabor rupture of membranes. *J Matern Fetal Neonatal Med.* **2015 Aug**; 28:1394-409. [Epub 2014 Sep 29] PMID: 25190175
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
31. Adekola H, Romero R, Chaemsaithong P, Korzeniewski SJ, Dong Z, Yeo L, **Hassan SS**, Chaiworapongsa T. Endocan, a putative endothelial cell marker, is elevated in preeclampsia, decreased in acute pyelonephritis, and unchanged in other obstetrical syndromes. *J Matern Fetal Neonatal Med.* **2015 July**; 28(14):1621-32. [Epub 2014 Oct 28] PMID: 25211383
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
32. Patwardhan M, Hernandez-Andrade E, Ahn H, Korzeniewski SJ, Schwartz A, **Hassan SS**, Romero R. Dynamic changes in the myometrium during the third stage of labor, evaluated using two-dimensional ultrasound, in women with normal and abnormal third stage of labor and in women with obstetric complications. *Gynecol Obstet Invest.* **2015 July**; 80:26-37. [Epub 2015 Jan 28] PMID: 25634647
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
33. Szabo S, Mody M, Romero R, Xu Y, Karaszi K, Mihalik N, Xu Z, Bhatti G, Fule T, Hupuczi P, Krenacs T, Rigo J Jr, Tarca AL, **Hassan SS**, Chaiworapongsa T, Kovalszky I, Papp Z, Than NG. Activation of villous trophoblastic p38 and ERK1/2 signaling pathways in preterm preeclampsia and HELLP syndrome. *Pathol Oncol Res.* **2015 Jul**; 21:659-68. [Epub 2015 Jan 13] PMID: 25583406
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
34. Xu Y, Plazyo O, Romero R, **Hassan SS**, Gomez-Lopez N. Isolation of leukocytes from the human maternal-fetal interface. *J Vis Exp.* **2015 May 21**; 99:e52863. PMID: 26067211
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
35. Szalai G, Romero R, Chaiworapongsa T, Xu Y, Wang B, Ahn H, Xu Z, Chiang PJ, Sundell B, Wang R, Jiang Y, Plazyo O, Olive M, Tarca AL, Dong Z, Qureshi F, Papp Z, **Hassan SS**, Hernandez-Andrade E, Than NG. Full-length human placental sFlt-1-e15a isoform induces distinct maternal phenotypes of preeclampsia in mice. *PLoS One.* **2015 Apr 10**; 10:e0119547. PMID: 25860260
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.

36. Pappas A, Chaiworapongsa T, Romero R, Korzeniewski SJ, Cortez JC, Bhatti G, Gomez-Lopez N, **Hassan SS**, Shankaran S, Tarca AL. Transcriptomics of maternal and fetal membranes can discriminate between gestational-age matched preterm neonates with and without cognitive impairment diagnosed at 18-24 months. PLoS One. **2015 Mar 30**; 10:e0118573. PMID: 25822971
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
37. Krishnamurthy U, Neelavalli J, Mody S, Yeo L, Jella PK, Saleem S, Korzeniewski SJ, Cabrera MD, Ehterami S, Bahado-Singh RO, Katkuri Y, Haacke EM, Hernandez-Andrade E, **Hassan SS**, Romero R MR imaging of the fetal brain at 1.5T and 3.0T field strengths: comparing specific absorption rate (SAR) and image quality. J Perinat Med. **2015 Mar**; 43:209-20. PMID: 25324440
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
38. Thomason ME, Grove LE, Lozon TA Jr, Vila AM, Ye Y, Nye MJ, Manning JH, Pappas A, Hernandez-Andrade E, Yeo L, Mody S, Berman S, **Hassan SS**, Romero R. Age-related increases in long-range connectivity in fetal functional neural connectivity networks in utero. Dev Cogn Neurosci. **2015 Feb**;11:96-104. [Epub 2014 Sep 27] PMID: 25284273
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
39. Romero R, Miranda J, Kusanovic JP, Chaiworapongsa T, Chaemsaihong P, Martinez A, Gotsch F, Dong Z, Ahmed AI, Shaman M, Lannaman K, Yoon BH, **Hassan SS**, Kim CJ, Korzeniewski SJ, Yeo L, Kim YM. Clinical chorioamnionitis at term I: microbiology of the amniotic cavity using cultivation and molecular techniques. J Perinat Med. **2015 Jan**; 43:19-36. PMID: 25720095
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
40. Aurioles-Garibay A, Hernandez-Andrade E, Romero R, Garcia M, Qureshi F, Jacques SM, Ahn H, Yeo L, Chaiworapongsa T, **Hassan SS**. Presence of an umbilical artery notch in monochorionic/monoamniotic twins. Fetal Diagn Ther. **2014 Dec**; 36:305-11. [Epub 2014 Jul 22] PMID: 25060062
41. Szalai G, Xu Y, Romero R, Chaiworapongsa T, Xu Z, Chiang PJ, Ahn H, Sundell B, Plazyo O, Jiang Y, Olive M, Wang B, Jacques SM, Qureshi F, Tarca AL, Erez O, Dong Z, Papp Z, **Hassan SS**, Hernandez-Andrade E, Than NG. *In vivo* experiments reveal the good, the bad and the ugly faces of sFlt-1 in pregnancy. PLoS One. **2014 Nov 13**; 9:e110867. PMID: 25393290
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.

42. Romero R, Miranda J, Chaiworapongsa T, Korzeniewski SJ, Chaemsaitong P, Gotsch F, Dong Z, Ahmed AI, Yoon BH, **Hassan SS**, Kim CJ, Yeo L. Prevalence and clinical significance of sterile intra-amniotic inflammation in patients with preterm labor and intact membranes. *Am J Reprod Immunol.* **2014 Nov**; 72:458-74. [Epub 2014 Jul 31] PMID: 25078709
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
43. Korzeniewski SJ, Romero R, Cortez J, Pappas A, Schwartz AG, Kim CJ, Kim JS, Kim YM, Yoon BH, Chaiworapongsa T, **Hassan SS**. A “multi-hit” model of neonatal white matter injury: cumulative contributions of chronic placental inflammation, acute fetal inflammation and postnatal inflammatory events. *J Perinat Med.* **2014 Nov**; 42:731-43. PMID: 25205706
44. Neelavalli J, Mody S, Yeo L, Jella PK, Korzeniewski SJ, Saleem S, Katkuri Y, Bahado-Singh RO, **Hassan SS**, Haacke EM, Romero R, Thomason ME. MR venography of the fetal brain using susceptibility weighted imaging. *J Magn Reson Imaging.* **2014 Oct**;40:949-57. [Epub 2013 Nov 25] PMID: 24989457
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
45. Chaemsaitong P, Romero R, Tarca AL, Korzeniewski SJ, Schwartz AG, Miranda J, Ahmed AI, Dong Z, **Hassan SS**, Yeo L, Chaiworapongsa T. Maternal plasma fetuin-A concentration is lower in patients who subsequently developed preterm preeclampsia than in uncomplicated pregnancy: a longitudinal study. *J Matern Fetal Neonatal Med.* [Epub **2014 Sep 29**:1-10] PMID: 25115163
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
46. Romero R, Tarca AL, Chaemsaitong P, Miranda J, Chaiworapongsa T, Jia H, **Hassan SS**, Kalita CA, Cai J, Yeo L, Lipovich L. Transcriptome interrogation of human myometrium identifies differentially expressed sense-antisense pairs of protein-coding and long non-coding RNA genes in spontaneous labor at term. *J Matern Fetal Neonatal Med.* **2014 Sep**; 27:1397-408. PMID: 24168098
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
47. Romero R, Miranda J, Chaiworapongsa T, Chaemsaitong P, Gotsch F, Dong Z, Ahmed AI, Yoon BH, **Hassan SS**, Kim CJ, Korzeniewski SJ, Yeo L, Kim YM. Sterile intra-amniotic inflammation in asymptomatic patients with a sonographic short cervix: prevalence and clinical significance. *J Matern Fetal Neonatal Med.* [Epub **2014 Sep 24**:1-17] PMID: 25123515
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
48. Hernandez-Andrade E, Auriolles-Garibay A, Garcia M, Korzeniewski SJ, Schwartz AG, Ahn H, Martinez-Varea A, Yeo L, Chaiworapongsa T, **Hassan SS**, Romero R. Effect of depth on shear-wave elastography estimated in the internal and external cervical os during pregnancy. *J Perinat Med.* **2014 Sep**; 42:549-57. PMID: 25029081
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.

49. Auriolles-Garibay A, Hernandez-Andrade E, Romero R, Qureshi F, Ahn H, Jacques SM, Garcia M, Yeo L, **Hassan SS**. Prenatal diagnosis of a placental infarction hematoma associated with fetal growth restriction, preeclampsia and fetal death: clinicopathological correlation. *Fetal Diagn Ther.* **2014 Aug**; 36:154-61. [Epub 2014 May 17] PMID: 24852332
50. Romero R, Yoon BH, Chaemsaitong P, Cortez J, Park CW, Gonzalez R, Behnke E, **Hassan SS**, Gotsch F, Yeo L, Chaiworapongsa T. Secreted phospholipase A2 is increased in meconium-stained amniotic fluid of term gestations: potential implications for the genesis of meconium aspiration syndrome. *J Matern Fetal Neonatal Med.* **2014 Jul**; 27:975-83. [Epub 2014 Jan 6] PMID: 24063538
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
51. Romero R, Kadar N, Miranda J, Korzeniewski SJ, Schwartz AG, Chaemsaitong P, Rogers W, Soto E, Gotsch F, Yeo L, **Hassan SS**, Chaiworapongsa T. The diagnostic performance of the Mass Restricted (MR) score in the identification of microbial invasion of the amniotic cavity or intra-amniotic inflammation is not superior to amniotic fluid interleukin-6. *J Matern Fetal Neonatal Med.* **2014 May**; 27:757-69. [Epub 2013 Dec 16] PMID: 24028673
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
52. Romero R, Yoon BH, Chaemsaitong P, Cortez J, Park CW, Gonzalez R, Behnke E, **Hassan SS**, Chaiworapongsa T, Yeo L. Bacteria and endotoxin in meconium-stained amniotic fluid at term: could intra-amniotic infection cause meconium passage? *J Matern Fetal Neonatal Med.* **2014 May**; 27:775-88. [Epub 2013 Dec 16] PMID: 24028637
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
53. Romero R, **Hassan SS**, Gajer P, Tarca AL, Fadrosch DW, Bieda J, Chaemsaitong P, Miranda J, Chaiworapongsa T, Ravel J. The vaginal microbiota of pregnant women who subsequently have spontaneous preterm labor and delivery and those with a normal delivery at term. *Microbiome.* **2014 May**; 2:18. PMID: 24987521
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
54. Thomason ME, Brown JA, Dassanayake MT, Shastri R, Marusak HA, Hernandez-Andrade E, Yeo L, Mody S, Berman S, **Hassan SS**, Romero R. Intrinsic functional brain architecture derived from graph theoretical analysis in the human fetus. *PLoS One.* **2014 May 1**; 9:e94423. PMID: 24788455
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
55. Romero R, Miranda J, Chaiworapongsa T, Chaemsaitong P, Gotsch F, Dong Z, Ahmed AI, Yoon BH, **Hassan SS**, Kim CJ, Korznewski SJ, Yeo L. A novel molecular microbiologic technique for the rapid diagnosis of microbial invasion of the amniotic cavity and intra-amniotic infection in preterm labor with intact membranes. *Am J Reprod Immunol.* **2014 Apr**; 71:330-58. [Epub 2014 Jan 13] PMID: 24417618
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.

56. Romero R, **Hassan SS**, Gajer P, Tarca AL, Fadrosch DW, Nikita L, Galuppi M, Lamont RF, Chaemsaitong P, Miranda J, Chaiworapongsa T, Ravel J. The composition and stability of the vaginal microbiota of normal pregnant women is different from that of non-pregnant women. *Microbiome*. **2014 Apr**; 2:10. PMID: 24735933
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
57. Neelavalli J, Jella PK, Krishnamurthy U, Buch S, Haacke EM, Yeo S, Mody S, Katkuri Y, Bahado-Singh R, **Hassan SS**, Romero R, Thomason ME. Measuring venous blood oxygenation in fetal brain using susceptibility-weighted imaging. *J Magn Reson Imaging*. **2014 Apr**; 39:998-1006. PMID: 24783243
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
58. Hernandez-Andrade E, Romero R, Korzeniewski SJ, Ahn H, Auriolles-Garibay A, Garcia M, Schwartz AG, Yeo L, Chaiworapongsa T, **Hassan SS**. Cervical strain determined by ultrasound elastography and its association with spontaneous preterm delivery. *J Perinat Med*. **2014 Mar**; 42:159-69. [Epub 2013 Dec 20] PMID: 24356388
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
59. Miranda J, Romero R, Korzeniewski SJ, Schwartz AG, Chaemsaitong P, Stampalija T, Yeo L, Dong Z, **Hassan SS**, Chrousos GP, Gold P, Chaiworapongsa T. The anti-aging factor α -klotho during human pregnancy and its expression in pregnancies complicated by small-for-gestational-age neonates and/or preeclampsia. *J Matern Fetal Neonatal Med*. **2014 Mar**; 27:449-57. [Epub 2013 Aug 19] PMID: 23808483
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
60. Romero R, Yeo L, Chaemsaitong P, Chaiworapongsa T, **Hassan SS**. Progesterone to prevent spontaneous preterm birth. *Semin Fetal Neonatal Med*. **2014 Feb**; 19:15-26. PMID: 24315687
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
61. Chaemsaitong P, Chaiworapongsa T, Romero R, Korzeniewski SJ, Stampalija T, Than NG, Dong Z, Miranda J, Yeo L, **Hassan SS**. Maternal plasma soluble TRAIL is decreased in preeclampsia. *J Matern Fetal Neonatal Med*. **2014 Feb**; 27:217-27. [Epub 2013 Aug 13] PMID: 23688319
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
62. *Madan I, Chaemsaitong P, Romero R, Than NG, Miranda J, Tarca AL, Bhatti G, Draghici S, Yeo L, Mazor M, **Hassan SS**, Chaiworapongsa T. The peripheral whole blood transcriptome of acute pyelonephritis in human pregnancy. *J Perinat Med*. **2014 Jan**; 42:31-53. PMID: 24293448
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.

63. Stampalija T, Chaiworapongsa T, Romero R, Tarca AL, Bhatti G, Chiang PJ, Than NG, Ferrazzi E, **Hassan SS**, Yeo L. Soluble ST2, a modulator of the inflammatory response, in preterm and term labor. *J Matern Fetal Neonatal Med.* **2014 Jan**; 27:111-21. [Epub 2013 Nov 13] PMID: 23688338
Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
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Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
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Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
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Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
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Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
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Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), manuscript writing and/or proofing.
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Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
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Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.
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Role: study conception, implementation (including patient recruitment), manuscript writing and/or proofing.

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Role: Implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: Implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.

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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.

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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.

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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.

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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.

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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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Role: study conception, design, implementation (including patient recruitment), data analysis, manuscript writing and/or proofing.
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**Indicates publications by a clinical or research fellow that resulted from my mentorship.*