List of Publications by Year in descending order

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ADIL TARCA

#	Article	IF	CITATIONS
1	A systems biology approach for pathway level analysis. Genome Research, 2007, 17, 1537-1545.	5.5	1,036
2	A novel signaling pathway impact analysis. Bioinformatics, 2009, 25, 75-82.	4.1	950
3	Machine Learning and Its Applications to Biology. PLoS Computational Biology, 2007, 3, e116.	3.2	490
4	The vaginal microbiota of pregnant women who subsequently have spontaneous preterm labor and delivery and those with a normal delivery at term. Microbiome, 2014, 2, 18.	11.1	361
5	Does the human placenta express the canonical cell entry mediators for SARS-CoV-2?. ELife, 2020, 9, .	6.0	222
6	Single cell transcriptional signatures of the human placenta in term and preterm parturition. ELife, 2019, 8, .	6.0	216
7	A primate subfamily of galectins expressed at the maternal–fetal interface that promote immune cell death. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9731-9736.	7.1	200
8	Villitis of Unknown Etiology Is Associated with a Distinct Pattern of Chemokine Up-Regulation in the Feto-Maternal and Placental Compartments: Implications for Conjoint Maternal Allograft Rejection and Maternal Anti-Fetal Graft-versus-Host Disease. Journal of Immunology, 2009, 182, 3919-3927.	0.8	176
9	A Comparison of Gene Set Analysis Methods in Terms of Sensitivity, Prioritization and Specificity. PLoS ONE, 2013, 8, e79217.	2.5	164
10	Characterization of the myometrial transcriptome and biological pathways of spontaneous human labor at term. Journal of Perinatal Medicine, 2010, 38, 617-43.	1.4	150
11	An M1-like Macrophage Polarization in Decidual Tissue during Spontaneous Preterm Labor That Is Attenuated by Rosiglitazone Treatment. Journal of Immunology, 2016, 196, 2476-2491.	0.8	147
12	Integrated Systems Biology Approach Identifies Novel Maternal and Placental Pathways of Preeclampsia. Frontiers in Immunology, 2018, 9, 1661.	4.8	146
13	Evidence of perturbations of the cytokine network in preterm labor. American Journal of Obstetrics and Gynecology, 2015, 213, 836.e1-836.e18.	1.3	141
14	Effector and Activated T Cells Induce Preterm Labor and Birth That Is Prevented by Treatment with Progesterone. Journal of Immunology, 2019, 202, 2585-2608.	0.8	120
15	Microarray Profiling Reveals That Placental Transcriptomes of Early-onset HELLP Syndrome and Preeclampsia Are Similar. Placenta, 2011, 32, S21-S29.	1.5	119
16	Maternal-fetal immune responses in pregnant women infected with SARS-CoV-2. Nature Communications, 2022, 13, 320.	12.8	117
17	Placental protein 13 (galectin-13) has decreased placental expression but increased shedding and maternal serum concentrations in patients presenting with preterm pre-eclampsia and HELLP syndrome. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2008, 453, 387-400.	2.8	113
18	Strengths and limitations of microarray-based phenotype prediction: lessons learned from the IMPROVER Diagnostic Signature Challenge. Bioinformatics, 2013, 29, 2892-2899.	4.1	108

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19	A Role for the Inflammasome in Spontaneous Preterm Labor With Acute Histologic Chorioamnionitis. Reproductive Sciences, 2017, 24, 1382-1401.	2.5	93
20	Evolutionary origins of the placental expression of chromosome 19 cluster galectins and their complex dysregulation in preeclampsia. Placenta, 2014, 35, 855-865.	1.5	92
21	The transcriptome of cervical ripening in human pregnancy before the onset of labor at term: Identification of novel molecular functions involved in this process. Journal of Maternal-Fetal and Neonatal Medicine, 2009, 22, 1183-1193.	1.5	84
22	Clinical chorioamnionitis at term II: the intra-amniotic inflammatory response. Journal of Perinatal Medicine, 2015, 44, 5-22.	1.4	84
23	The prediction of late-onset preeclampsia: Results from a longitudinal proteomics study. PLoS ONE, 2017, 12, e0181468.	2.5	84
24	The prediction of early preeclampsia: Results from a longitudinal proteomics study. PLoS ONE, 2019, 14, e0217273.	2.5	81
25	Eicosanomic profiling reveals dominance of the epoxygenase pathway in human amniotic fluid at term in spontaneous labor. FASEB Journal, 2014, 28, 4835-4846.	0.5	80
26	Invariant NKT Cell Activation Induces Late Preterm Birth That Is Attenuated by Rosiglitazone. Journal of Immunology, 2016, 196, 1044-1059.	0.8	76
27	Inflammasome activation during spontaneous preterm labor with intraâ€amniotic infection or sterile intraâ€amniotic inflammation. American Journal of Reproductive Immunology, 2018, 80, e13049.	1.2	73
28	Regulatory T Cells Play a Role in a Subset of Idiopathic Preterm Labor/Birth and Adverse Neonatal Outcomes. Cell Reports, 2020, 32, 107874.	6.4	71
29	Plasma concentrations of angiogenic/anti-angiogenic factors have prognostic value in women presenting with suspected preeclampsia to the obstetrical triage area: a prospective study. Journal of Maternal-Fetal and Neonatal Medicine, 2014, 27, 132-144.	1.5	68
30	The maternal plasma proteome changes as a function of gestational age in normal pregnancy: a longitudinal study. American Journal of Obstetrics and Gynecology, 2017, 217, 67.e1-67.e21.	1.3	66
31	Characterization of the transcriptome of chorioamniotic membranes at the site of rupture in spontaneous labor at term. American Journal of Obstetrics and Gynecology, 2010, 202, 462.e1-462.e41.	1.3	62
32	An imbalance between angiogenic and anti-angiogenic factors precedes fetal death in a subset of patients: results of a longitudinal study. Journal of Maternal-Fetal and Neonatal Medicine, 2010, 23, 1384-1399.	1.5	57
33	Prediction of adverse perinatal outcome by fetal biometry: comparison of customized and populationâ€based standards. Ultrasound in Obstetrics and Gynecology, 2020, 55, 177-188.	1.7	52
34	Full-Length Human Placental sFlt-1-e15a Isoform Induces Distinct Maternal Phenotypes of Preeclampsia in Mice. PLoS ONE, 2015, 10, e0119547.	2.5	50
35	Clinical chorioamnionitis at term V: umbilical cord plasma cytokine profile in the context of a systemic maternal inflammatory response. Journal of Perinatal Medicine, 2015, 44, 53-76.	1.4	49
36	Whole-genome microarray and targeted analysis of angiogenesis-regulating gene expression (ENG,) Tj ETQq0 0 0	rgBT /Ove 1.5	erlock 10 Tf 5

Maternal-Fetal and Neonatal Medicine, 2008, 21, 267-273.

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37	Signature pathways identified from gene expression profiles in the human uterine cervix before and after spontaneous term parturition. American Journal of Obstetrics and Gynecology, 2007, 197, 250.e1-250.e7.	1.3	47
38	Crowdsourcing assessment of maternal blood multi-omics for predicting gestational age and preterm birth. Cell Reports Medicine, 2021, 2, 100323.	6.5	47
39	Targeted expression profiling by RNA-Seq improves detection of cellular dynamics during pregnancy and identifies a role for T cells in term parturition. Scientific Reports, 2019, 9, 848.	3.3	46
40	Single and Serial Fetal Biometry to Detect Preterm and Term Small- and Large-for-Gestational-Age Neonates: A Longitudinal Cohort Study. PLoS ONE, 2016, 11, e0164161.	2.5	45
41	Exhausted and Senescent T Cells at the Maternal-Fetal Interface in Preterm and Term Labor. Journal of Immunology Research, 2019, 2019, 1-16.	2.2	44
42	Clinical chorioamnionitis at term IX: <i>in vivo</i> evidence of intra-amniotic inflammasome activation. Journal of Perinatal Medicine, 2019, 47, 276-287.	1.4	44
43	Compartmentalized profiling of amniotic fluid cytokines in women with preterm labor. PLoS ONE, 2020, 15, e0227881.	2.5	44
44	Lipidomic analysis of patients with microbial invasion of the amniotic cavity reveals upâ€regulation of leukotriene B ₄ . FASEB Journal, 2016, 30, 3296-3307.	0.5	43
45	The Cellular Transcriptome in the Maternal Circulation During Normal Pregnancy: A Longitudinal Study. Frontiers in Immunology, 2019, 10, 2863.	4.8	43
46	Changes of placental syndecan-1 expression in preeclampsia and HELLP syndrome. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2013, 463, 445-458.	2.8	42
47	Characterization of the myometrial transcriptome in women with an arrest of dilatation during labor. Journal of Perinatal Medicine, 2013, 41, 665-681.	1.4	42
48	Clinical chorioamnionitis at term: the amniotic fluid fatty acyl lipidome. Journal of Lipid Research, 2016, 57, 1906-1916.	4.2	42
49	Peripheral CD300a+CD8+ T Lymphocytes with a Distinct Cytotoxic Molecular Signature Increase in Pregnant Women with Chronic Chorioamnionitis. American Journal of Reproductive Immunology, 2012, 67, 184-197.	1.2	41
50	SARS-CoV-2 and the subsequent development of preeclampsia and preterm birth: evidence of a dose-response relationship supporting causality. American Journal of Obstetrics and Gynecology, 2021, 225, 689-693.e1.	1.3	41
51	Differences and similarities in the transcriptional profile of peripheral whole blood in early and late-onset preeclampsia: insights into the molecular basis of the phenotype of preeclampsia ^a . Journal of Perinatal Medicine, 2013, 41, 485-504.	1.4	40
52	In Vivo Experiments Reveal the Good, the Bad and the Ugly Faces of sFlt-1 in Pregnancy. PLoS ONE, 2014, 9, e110867.	2.5	40
53	Individualized fetal growth assessment: critical evaluation of key concepts in the specification of third trimester size trajectories. Journal of Maternal-Fetal and Neonatal Medicine, 2014, 27, 543-551.	1.5	38
54	Disulfiram Suppresses Growth of the Malignant Pleural Mesothelioma Cells in Part by Inducing Apoptosis. PLoS ONE, 2014, 9, e93711.	2.5	38

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55	Activation of Villous Trophoblastic p38 and ERK1/2 Signaling Pathways in Preterm Preeclampsia and HELLP Syndrome. Pathology and Oncology Research, 2015, 21, 659-668.	1.9	36
56	Maternal whole blood mRNA signatures identify women at risk of early preeclampsia: a longitudinal study. Journal of Maternal-Fetal and Neonatal Medicine, 2021, 34, 3463-3474.	1.5	36
57	The cytokine network in women with an asymptomatic short cervix and the risk of preterm delivery. American Journal of Reproductive Immunology, 2017, 78, e12686.	1.2	35
58	A single-cell atlas of the myometrium in human parturition. JCI Insight, 2022, 7, .	5.0	35
59	Gasdermin D: Evidence of pyroptosis in spontaneous preterm labor with sterile intraâ€amniotic inflammation or intraâ€amniotic infection. American Journal of Reproductive Immunology, 2019, 82, e13184.	1.2	33
60	The profiles of soluble adhesion molecules in the "great obstetrical syndromesâ€*. Journal of Maternal-Fetal and Neonatal Medicine, 2019, 32, 2113-2136.	1.5	32
61	Personalized assessment of cervical length improves prediction of spontaneous preterm birth: a standard and a percentile calculator. American Journal of Obstetrics and Gynecology, 2021, 224, 288.e1-288.e17.	1.3	32
62	The prediction of fetal death with a simple maternal bloodÂtest at 24-28 weeks: a role for angiogenic index-1 (PIGF/sVEGFR-1 ratio). American Journal of Obstetrics and Gynecology, 2017, 217, 682.e1-682.e13.	1.3	31
63	Altered Levels of Serum Ceramide, Sphingosine and Sphingomyelin Are Associated with Colorectal Cancer: A Retrospective Pilot Study. Anticancer Research, 2017, 37, 1213-1218.	1.1	31
64	A molecular signature of an arrest of descent in human parturition. American Journal of Obstetrics and Gynecology, 2011, 204, 177.e15-177.e33.	1.3	30
65	A new customized fetal growth standard for African American women: the PRB/NICHD Detroit study. American Journal of Obstetrics and Gynecology, 2018, 218, S679-S691.e4.	1.3	30
66	Placenta-Specific Genes, Their Regulation During Villous Trophoblast Differentiation and Dysregulation in Preterm Preeclampsia. International Journal of Molecular Sciences, 2020, 21, 628.	4.1	30
67	The molecular basis for sonographic cervical shortening at term: identification of differentially expressed genes and the epithelial-mesenchymal transition as a function of cervical length. American Journal of Obstetrics and Gynecology, 2010, 203, 472.e1-472.e14.	1.3	29
68	The plasma metabolome of women in early pregnancy differs from that of non-pregnant women. PLoS ONE, 2019, 14, e0224682.	2.5	29
69	RNA Sequencing Reveals Diverse Functions of Amniotic Fluid Neutrophils and Monocytes/Macrophages in Intra-Amniotic Infection. Journal of Innate Immunity, 2021, 13, 63-82.	3.8	29
70	Insights into the Physiology of Childbirth Using Transcriptomics. PLoS Medicine, 2006, 3, e276.	8.4	27
71	A decrease in maternal plasma concentrations of sVEGFR-2 precedes the clinical diagnosis of preeclampsia. American Journal of Obstetrics and Gynecology, 2010, 202, 550.e1-550.e10.	1.3	26
72	Interleukin-33 in the human placenta. Journal of Maternal-Fetal and Neonatal Medicine, 2013, 26, 327-338.	1.5	26

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73	Maternal plasma-soluble ST2 concentrations are elevated prior to the development of early and late onset preeclampsia – a longitudinal study. Journal of Maternal-Fetal and Neonatal Medicine, 2018, 31, 418-432.	1.5	26
74	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. Journal of Maternal-Fetal and Neonatal Medicine, 2014, 27, 1397-1408.	1.5	25
75	Amniotic fluid cell-free transcriptome: a glimpse into fetal development and placental cellular dynamics during normal pregnancy. BMC Medical Genomics, 2020, 13, 25.	1.5	25
76	RNA Sequencing Reveals Distinct Immune Responses in the Chorioamniotic Membranes of Women with Preterm Labor and Microbial or Sterile Intra-amniotic Inflammation. Infection and Immunity, 2021, 89, .	2.2	24
77	Preterm labor is characterized by a high abundance of amniotic fluid prostaglandins in patients with intra-amniotic infection or sterile intra-amniotic inflammation. Journal of Maternal-Fetal and Neonatal Medicine, 2021, 34, 4009-4024.	1.5	22
78	The peripheral whole-blood transcriptome of acute pyelonephritis in human pregnancy ^a . Journal of Perinatal Medicine, 2014, 42, 31-53.	1.4	20
79	Proteomic signatures predict preeclampsia in individual cohorts but not across cohorts – implications for clinical biomarker studies. Journal of Maternal-Fetal and Neonatal Medicine, 2022, 35, 5621-5628.	1.5	20
80	Gene selection for optimal prediction of cell position in tissues from single-cell transcriptomics data. Life Science Alliance, 2020, 3, e202000867.	2.8	20
81	Fetal membranes as an interface between inflammation and metabolism: Increased Aquaporin 9 expression in the presence of spontaneous labor at term and chorioamnionitis. Journal of Maternal-Fetal and Neonatal Medicine, 2009, 22, 1167-1175.	1.5	19
82	Vaginal host immune-microbiome interactions in a cohort of primarily African-American women who ultimately underwent spontaneous preterm birth or delivered at term. Cytokine, 2021, 137, 155316.	3.2	19
83	Early pathways, biomarkers, and four distinct molecular subclasses of preeclampsia: The intersection of clinical, pathological, and high-dimensional biology studies. Placenta, 2022, 125, 10-19.	1.5	19
84	The diagnostic performance of the beta-glucan assay in the detection of intra-amniotic infection with Candida species. Journal of Maternal-Fetal and Neonatal Medicine, 2019, 32, 1703-1720.	1.5	18
85	Reduced fetal growth velocity precedes antepartum fetal death. Ultrasound in Obstetrics and Gynecology, 2021, 57, 942-952.	1.7	18
86	Prediction of preeclampsia throughout gestation with maternal characteristics and biophysical and biochemical markers: a longitudinal study. American Journal of Obstetrics and Gynecology, 2022, 226, 126.e1-126.e22.	1.3	18
87	Disorders of placental villous maturation are present in one-third of cases with spontaneous preterm labor. Journal of Perinatal Medicine, 2021, 49, 412-430.	1.4	17
88	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, 10, e0118573.	2.5	16
89	Distinct Cellular Immune Responses to SARS-CoV-2 in Pregnant Women. Journal of Immunology, 2022, 208, 1857-1872.	0.8	16
90	Fetal size standards to diagnose a small- or aÂlarge-for-gestational-age fetus. American Journal of Obstetrics and Gynecology, 2018, 218, S605-S607.	1.3	15

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91	Predicting protein phosphorylation from gene expression: top methods from the IMPROVER Species Translation Challenge. Bioinformatics, 2015, 31, 462-470.	4.1	14
92	Maternal circulating concentrations of soluble Fas and Elabela in early- and late-onset preeclampsia. Journal of Maternal-Fetal and Neonatal Medicine, 2020, , 1-14.	1.5	14
93	Transcriptome changes in maternal peripheral blood during term parturition mimic perturbations preceding spontaneous preterm birth. Biology of Reproduction, 2022, 106, 185-199.	2.7	14
94	The sbv IMPROVER Systems Toxicology computational challenge: Identification of human and species-independent blood response markers as predictors of smoking exposure and cessation status. Computational Toxicology, 2018, 5, 38-51.	3.3	13
95	The amniotic fluid proteome changes with gestational age in normal pregnancy: a cross-sectional study. Scientific Reports, 2022, 12, 601.	3.3	12
96	The amniotic fluid cell-free transcriptome in spontaneous preterm labor. Scientific Reports, 2021, 11, 13481.	3.3	11
97	Bacteria in the amniotic fluid without inflammation: early colonization vs. contamination. Journal of Perinatal Medicine, 2021, 49, 1103-1121.	1.4	10
98	The Distinct Immune Nature of the Fetal Inflammatory Response Syndrome Type I and Type II. ImmunoHorizons, 2021, 5, 735-751.	1.8	10
99	Pregnancy tailors endotoxin-induced monocyte and neutrophil responses in the maternal circulation. Inflammation Research, 2022, 71, 653-668.	4.0	10
100	Methodological approach from the Best Overall Team in the sbv IMPROVER Diagnostic Signature Challenge. Systems Biomedicine (Austin, Tex), 2013, 1, 217-227.	0.7	9
101	Gasdermin D: <i>in vivo</i> evidence of pyroptosis in spontaneous labor at term. Journal of Maternal-Fetal and Neonatal Medicine, 2021, 34, 569-579.	1.5	8
102	Proteoglycans: Systems-Level Insight into Their Expression in Healthy and Diseased Placentas. International Journal of Molecular Sciences, 2022, 23, 5798.	4.1	8
103	Prostaglandin and prostamide concentrations in amniotic fluid of women with spontaneous labor at term with and without clinical chorioamnionitis. Prostaglandins Leukotrienes and Essential Fatty Acids, 2020, 163, 102195.	2.2	7
104	Pregnancy-specific transcriptional changes upon endotoxin exposure in mice. Journal of Perinatal Medicine, 2020, 48, 700-722.	1.4	7
105	Gestational Age Dependence of the Maternal Circulating Long Non-Coding RNA Transcriptome During Normal Pregnancy Highlights Antisense and Pseudogene Transcripts. Frontiers in Genetics, 2021, 12, 760849.	2.3	7
106	Inter-species pathway perturbation prediction via data-driven detection of functional homology. Bioinformatics, 2015, 31, 501-508.	4.1	6
107	Developing Classifiers for the Detection of Cancer Using Multi-Analytes. Methods in Molecular Biology, 2009, 520, 259-272.	0.9	5
108	Fetal growth percentile software: a tool to calculate estimated fetal weight percentiles for 6 standards. American Journal of Obstetrics and Gynecology, 2020, 222, 625-628.	1.3	4

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109	The amniotic fluid proteome predicts imminent preterm delivery in asymptomatic women with a short cervix. Scientific Reports, 2022, 12, .	3.3	4
110	Human blood gene signature as a marker for smoking exposure: Computational approaches of the top ranked teams in the sbv IMPROVER Systems Toxicology challenge. Computational Toxicology, 2018, 5, 31-37.	3.3	3
111	Proteomic identification of Placental Protein 1 (PP1), PP8, and PP22 and characterization of their placental expression in healthy pregnancies and in preeclampsia. Placenta, 2020, 99, 197-207.	1.5	3
112	Study protocol to quantify the genetic architecture of sonographic cervical length and its relationship to spontaneous preterm birth. BMJ Open, 2022, 12, e053631.	1.9	3
113	Maternal plasma cytokines and the subsequent risk of uterine atony and postpartum hemorrhage. Journal of Perinatal Medicine, 2023, 51, 219-232.	1.4	2
114	Species translatable blood gene signature as a marker of exposure to smoking: Computational approaches of the top ranked teams in the sbv IMPROVER Systems Toxicology Challenge. Computational Toxicology, 2018, 5, 25-30.	3.3	1
115	Human Chorionic Gonadotropin Modulates the Transcriptome of the Myometrium and Cervix in Late Gestation. Reproductive Sciences, 2021, 28, 2246-2260.	2.5	1