

Adi L Tarca

List of Publications by Year in descending order

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Version: 2024-02-01

115
papers

8,149
citations

70961

41
h-index

53109

85
g-index

121
all docs

121
docs citations

121
times ranked

10043
citing authors

#	ARTICLE	IF	CITATIONS
1	A systems biology approach for pathway level analysis. <i>Genome Research</i> , 2007, 17, 1537-1545.	2.4	1,036
2	A novel signaling pathway impact analysis. <i>Bioinformatics</i> , 2009, 25, 75-82.	1.8	950
3	Machine Learning and Its Applications to Biology. <i>PLoS Computational Biology</i> , 2007, 3, e116.	1.5	490
4	The vaginal microbiota of pregnant women who subsequently have spontaneous preterm labor and delivery and those with a normal delivery at term. <i>Microbiome</i> , 2014, 2, 18.	4.9	361
5	Does the human placenta express the canonical cell entry mediators for SARS-CoV-2?. <i>ELife</i> , 2020, 9, .	2.8	222
6	Single cell transcriptional signatures of the human placenta in term and preterm parturition. <i>ELife</i> , 2019, 8, .	2.8	216
7	A primate subfamily of galectins expressed at the maternal-fetal interface that promote immune cell death. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9731-9736.	3.3	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. <i>Journal of Immunology</i> , 2009, 182, 3919-3927.	0.4	176
9	A Comparison of Gene Set Analysis Methods in Terms of Sensitivity, Prioritization and Specificity. <i>PLoS ONE</i> , 2013, 8, e79217.	1.1	164
10	Characterization of the myometrial transcriptome and biological pathways of spontaneous human labor at term. <i>Journal of Perinatal Medicine</i> , 2010, 38, 617-43.	0.6	150
11	An M1-like Macrophage Polarization in Decidual Tissue during Spontaneous Preterm Labor That Is Attenuated by Rosiglitazone Treatment. <i>Journal of Immunology</i> , 2016, 196, 2476-2491.	0.4	147
12	Integrated Systems Biology Approach Identifies Novel Maternal and Placental Pathways of Preeclampsia. <i>Frontiers in Immunology</i> , 2018, 9, 1661.	2.2	146
13	Evidence of perturbations of the cytokine network in preterm labor. <i>American Journal of Obstetrics and Gynecology</i> , 2015, 213, 836.e1-836.e18.	0.7	141
14	Effector and Activated T Cells Induce Preterm Labor and Birth That Is Prevented by Treatment with Progesterone. <i>Journal of Immunology</i> , 2019, 202, 2585-2608.	0.4	120
15	Microarray Profiling Reveals That Placental Transcriptomes of Early-onset HELLP Syndrome and Preeclampsia Are Similar. <i>Placenta</i> , 2011, 32, S21-S29.	0.7	119
16	Maternal-fetal immune responses in pregnant women infected with SARS-CoV-2. <i>Nature Communications</i> , 2022, 13, 320.	5.8	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. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2008, 453, 387-400.	1.4	113
18	Strengths and limitations of microarray-based phenotype prediction: lessons learned from the IMPROVER Diagnostic Signature Challenge. <i>Bioinformatics</i> , 2013, 29, 2892-2899.	1.8	108

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19	A Role for the Inflammasome in Spontaneous Preterm Labor With Acute Histologic Chorioamnionitis. <i>Reproductive Sciences</i> , 2017, 24, 1382-1401.	1.1	93
20	Evolutionary origins of the placental expression of chromosome 19 cluster galectins and their complex dysregulation in preeclampsia. <i>Placenta</i> , 2014, 35, 855-865.	0.7	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. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2009, 22, 1183-1193.	0.7	84
22	Clinical chorioamnionitis at term II: the intra-amniotic inflammatory response. <i>Journal of Perinatal Medicine</i> , 2015, 44, 5-22.	0.6	84
23	The prediction of late-onset preeclampsia: Results from a longitudinal proteomics study. <i>PLoS ONE</i> , 2017, 12, e0181468.	1.1	84
24	The prediction of early preeclampsia: Results from a longitudinal proteomics study. <i>PLoS ONE</i> , 2019, 14, e0217273.	1.1	81
25	Eicosanomic profiling reveals dominance of the epoxygenase pathway in human amniotic fluid at term in spontaneous labor. <i>FASEB Journal</i> , 2014, 28, 4835-4846.	0.2	80
26	Invariant NKT Cell Activation Induces Late Preterm Birth That Is Attenuated by Rosiglitazone. <i>Journal of Immunology</i> , 2016, 196, 1044-1059.	0.4	76
27	Inflammasome activation during spontaneous preterm labor with intra-amniotic infection or sterile intra-amniotic inflammation. <i>American Journal of Reproductive Immunology</i> , 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. <i>Cell Reports</i> , 2020, 32, 107874.	2.9	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. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2014, 27, 132-144.	0.7	68
30	The maternal plasma proteome changes as a function of gestational age in normal pregnancy: a longitudinal study. <i>American Journal of Obstetrics and Gynecology</i> , 2017, 217, 67.e1-67.e21.	0.7	66
31	Characterization of the transcriptome of chorioamniotic membranes at the site of rupture in spontaneous labor at term. <i>American Journal of Obstetrics and Gynecology</i> , 2010, 202, 462.e1-462.e41.	0.7	62
32	An imbalance between angiogenic and anti-angiogenic factors precedes fetal death in a subset of patients: results of a longitudinal study. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2010, 23, 1384-1399.	0.7	57
33	Prediction of adverse perinatal outcome by fetal biometry: comparison of customized and population-based standards. <i>Ultrasound in Obstetrics and Gynecology</i> , 2020, 55, 177-188.	0.9	52
34	Full-Length Human Placental sFlt-1-e15a Isoform Induces Distinct Maternal Phenotypes of Preeclampsia in Mice. <i>PLoS ONE</i> , 2015, 10, e0119547.	1.1	50
35	Clinical chorioamnionitis at term V: umbilical cord plasma cytokine profile in the context of a systemic maternal inflammatory response. <i>Journal of Perinatal Medicine</i> , 2015, 44, 53-76.	0.6	49
36	Whole-genome microarray and targeted analysis of angiogenesis-regulating gene expression (ENG,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Maternal-Fetal and Neonatal Medicine, 2008, 21, 267-273.	0.7	48

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37	Signature pathways identified from gene expression profiles in the human uterine cervix before and after spontaneous term parturition. <i>American Journal of Obstetrics and Gynecology</i> , 2007, 197, 250.e1-250.e7.	0.7	47
38	Crowdsourcing assessment of maternal blood multi-omics for predicting gestational age and preterm birth. <i>Cell Reports Medicine</i> , 2021, 2, 100323.	3.3	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. <i>Scientific Reports</i> , 2019, 9, 848.	1.6	46
40	Single and Serial Fetal Biometry to Detect Preterm and Term Small- and Large-for-Gestational-Age Neonates: A Longitudinal Cohort Study. <i>PLoS ONE</i> , 2016, 11, e0164161.	1.1	45
41	Exhausted and Senescent T Cells at the Maternal-Fetal Interface in Preterm and Term Labor. <i>Journal of Immunology Research</i> , 2019, 2019, 1-16.	0.9	44
42	Clinical chorioamnionitis at term IX: <i>in vivo</i> evidence of intra-amniotic inflammasome activation. <i>Journal of Perinatal Medicine</i> , 2019, 47, 276-287.	0.6	44
43	Compartmentalized profiling of amniotic fluid cytokines in women with preterm labor. <i>PLoS ONE</i> , 2020, 15, e0227881.	1.1	44
44	Lipidomic analysis of patients with microbial invasion of the amniotic cavity reveals up-regulation of leukotriene B ₄ . <i>FASEB Journal</i> , 2016, 30, 3296-3307.	0.2	43
45	The Cellular Transcriptome in the Maternal Circulation During Normal Pregnancy: A Longitudinal Study. <i>Frontiers in Immunology</i> , 2019, 10, 2863.	2.2	43
46	Changes of placental syndecan-1 expression in preeclampsia and HELLP syndrome. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2013, 463, 445-458.	1.4	42
47	Characterization of the myometrial transcriptome in women with an arrest of dilatation during labor. <i>Journal of Perinatal Medicine</i> , 2013, 41, 665-681.	0.6	42
48	Clinical chorioamnionitis at term: the amniotic fluid fatty acyl lipidome. <i>Journal of Lipid Research</i> , 2016, 57, 1906-1916.	2.0	42
49	Peripheral CD300a+CD8+ T Lymphocytes with a Distinct Cytotoxic Molecular Signature Increase in Pregnant Women with Chronic Chorioamnionitis. <i>American Journal of Reproductive Immunology</i> , 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. <i>American Journal of Obstetrics and Gynecology</i> , 2021, 225, 689-693.e1.	0.7	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 . <i>Journal of Perinatal Medicine</i> , 2013, 41, 485-504.	0.6	40
52	In Vivo Experiments Reveal the Good, the Bad and the Ugly Faces of sFlt-1 in Pregnancy. <i>PLoS ONE</i> , 2014, 9, e110867.	1.1	40
53	Individualized fetal growth assessment: critical evaluation of key concepts in the specification of third trimester size trajectories. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2014, 27, 543-551.	0.7	38
54	Disulfiram Suppresses Growth of the Malignant Pleural Mesothelioma Cells in Part by Inducing Apoptosis. <i>PLoS ONE</i> , 2014, 9, e93711.	1.1	38

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55	Activation of Villous Trophoblastic p38 and ERK1/2 Signaling Pathways in Preterm Preeclampsia and HELLP Syndrome. <i>Pathology and Oncology Research</i> , 2015, 21, 659-668.	0.9	36
56	Maternal whole blood mRNA signatures identify women at risk of early preeclampsia: a longitudinal study. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2021, 34, 3463-3474.	0.7	36
57	The cytokine network in women with an asymptomatic short cervix and the risk of preterm delivery. <i>American Journal of Reproductive Immunology</i> , 2017, 78, e12686.	1.2	35
58	A single-cell atlas of the myometrium in human parturition. <i>JCI Insight</i> , 2022, 7, .	2.3	35
59	Gasdermin D: Evidence of pyroptosis in spontaneous preterm labor with sterile intra-amniotic inflammation or intra-amniotic infection. <i>American Journal of Reproductive Immunology</i> , 2019, 82, e13184.	1.2	33
60	The profiles of soluble adhesion molecules in the "great obstetrical syndromes". <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2019, 32, 2113-2136.	0.7	32
61	Personalized assessment of cervical length improves prediction of spontaneous preterm birth: a standard and a percentile calculator. <i>American Journal of Obstetrics and Gynecology</i> , 2021, 224, 288.e1-288.e17.	0.7	32
62	The prediction of fetal death with a simple maternal blood test at 24-28 weeks: a role for angiogenic index-1 (PlGF/sVEGFR-1 ratio). <i>American Journal of Obstetrics and Gynecology</i> , 2017, 217, 682.e1-682.e13.	0.7	31
63	Altered Levels of Serum Ceramide, Sphingosine and Sphingomyelin Are Associated with Colorectal Cancer: A Retrospective Pilot Study. <i>Anticancer Research</i> , 2017, 37, 1213-1218.	0.5	31
64	A molecular signature of an arrest of descent in human parturition. <i>American Journal of Obstetrics and Gynecology</i> , 2011, 204, 177.e15-177.e33.	0.7	30
65	A new customized fetal growth standard for African American women: the PRB/NICHD Detroit study. <i>American Journal of Obstetrics and Gynecology</i> , 2018, 218, S679-S691.e4.	0.7	30
66	Placenta-Specific Genes, Their Regulation During Villous Trophoblast Differentiation and Dysregulation in Preterm Preeclampsia. <i>International Journal of Molecular Sciences</i> , 2020, 21, 628.	1.8	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. <i>American Journal of Obstetrics and Gynecology</i> , 2010, 203, 472.e1-472.e14.	0.7	29
68	The plasma metabolome of women in early pregnancy differs from that of non-pregnant women. <i>PLoS ONE</i> , 2019, 14, e0224682.	1.1	29
69	RNA Sequencing Reveals Diverse Functions of Amniotic Fluid Neutrophils and Monocytes/Macrophages in Intra-Amniotic Infection. <i>Journal of Innate Immunity</i> , 2021, 13, 63-82.	1.8	29
70	Insights into the Physiology of Childbirth Using Transcriptomics. <i>PLoS Medicine</i> , 2006, 3, e276.	3.9	27
71	A decrease in maternal plasma concentrations of sVEGFR-2 precedes the clinical diagnosis of preeclampsia. <i>American Journal of Obstetrics and Gynecology</i> , 2010, 202, 550.e1-550.e10.	0.7	26
72	Interleukin-33 in the human placenta. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2013, 26, 327-338.	0.7	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. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2018, 31, 418-432.	0.7	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. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2014, 27, 1397-1408.	0.7	25
75	Amniotic fluid cell-free transcriptome: a glimpse into fetal development and placental cellular dynamics during normal pregnancy. <i>BMC Medical Genomics</i> , 2020, 13, 25.	0.7	25
76	RNA Sequencing Reveals Distinct Immune Responses in the Chorioamniotic Membranes of Women with Preterm Labor and Microbial or Sterile Intra-amniotic Inflammation. <i>Infection and Immunity</i> , 2021, 89, .	1.0	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. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2021, 34, 4009-4024.	0.7	22
78	The peripheral whole-blood transcriptome of acute pyelonephritis in human pregnancy^a. <i>Journal of Perinatal Medicine</i> , 2014, 42, 31-53.	0.6	20
79	Proteomic signatures predict preeclampsia in individual cohorts but not across cohorts – implications for clinical biomarker studies. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2022, 35, 5621-5628.	0.7	20
80	Gene selection for optimal prediction of cell position in tissues from single-cell transcriptomics data. <i>Life Science Alliance</i> , 2020, 3, e202000867.	1.3	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. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2009, 22, 1167-1175.	0.7	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. <i>Cytokine</i> , 2021, 137, 155316.	1.4	19
83	Early pathways, biomarkers, and four distinct molecular subclasses of preeclampsia: The intersection of clinical, pathological, and high-dimensional biology studies. <i>Placenta</i> , 2022, 125, 10-19.	0.7	19
84	The diagnostic performance of the beta-glucan assay in the detection of intra-amniotic infection with <i>Candida</i> species. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2019, 32, 1703-1720.	0.7	18
85	Reduced fetal growth velocity precedes antepartum fetal death. <i>Ultrasound in Obstetrics and Gynecology</i> , 2021, 57, 942-952.	0.9	18
86	Prediction of preeclampsia throughout gestation with maternal characteristics and biophysical and biochemical markers: a longitudinal study. <i>American Journal of Obstetrics and Gynecology</i> , 2022, 226, 126.e1-126.e22.	0.7	18
87	Disorders of placental villous maturation are present in one-third of cases with spontaneous preterm labor. <i>Journal of Perinatal Medicine</i> , 2021, 49, 412-430.	0.6	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. <i>PLoS ONE</i> , 2015, 10, e0118573.	1.1	16
89	Distinct Cellular Immune Responses to SARS-CoV-2 in Pregnant Women. <i>Journal of Immunology</i> , 2022, 208, 1857-1872.	0.4	16
90	Fetal size standards to diagnose a small- or a large-for-gestational-age fetus. <i>American Journal of Obstetrics and Gynecology</i> , 2018, 218, S605-S607.	0.7	15

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91	Predicting protein phosphorylation from gene expression: top methods from the IMPROVER Species Translation Challenge. <i>Bioinformatics</i> , 2015, 31, 462-470.	1.8	14
92	Maternal circulating concentrations of soluble Fas and Elabela in early- and late-onset preeclampsia. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2020, , 1-14.	0.7	14
93	Transcriptome changes in maternal peripheral blood during term parturition mimic perturbations preceding spontaneous preterm birth. <i>Biology of Reproduction</i> , 2022, 106, 185-199.	1.2	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. <i>Computational Toxicology</i> , 2018, 5, 38-51.	1.8	13
95	The amniotic fluid proteome changes with gestational age in normal pregnancy: a cross-sectional study. <i>Scientific Reports</i> , 2022, 12, 601.	1.6	12
96	The amniotic fluid cell-free transcriptome in spontaneous preterm labor. <i>Scientific Reports</i> , 2021, 11, 13481.	1.6	11
97	Bacteria in the amniotic fluid without inflammation: early colonization vs. contamination. <i>Journal of Perinatal Medicine</i> , 2021, 49, 1103-1121.	0.6	10
98	The Distinct Immune Nature of the Fetal Inflammatory Response Syndrome Type I and Type II. <i>ImmunoHorizons</i> , 2021, 5, 735-751.	0.8	10
99	Pregnancy tailors endotoxin-induced monocyte and neutrophil responses in the maternal circulation. <i>Inflammation Research</i> , 2022, 71, 653-668.	1.6	10
100	Methodological approach from the Best Overall Team in the sbv IMPROVER Diagnostic Signature Challenge. <i>Systems Biomedicine (Austin, Tex)</i> , 2013, 1, 217-227.	0.7	9
101	Casdermin D: <i>in vivo</i> evidence of pyroptosis in spontaneous labor at term. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2021, 34, 569-579.	0.7	8
102	Proteoglycans: Systems-Level Insight into Their Expression in Healthy and Diseased Placentas. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5798.	1.8	8
103	Prostaglandin and prostamide concentrations in amniotic fluid of women with spontaneous labor at term with and without clinical chorioamnionitis. <i>Prostaglandins Leukotrienes and Essential Fatty Acids</i> , 2020, 163, 102195.	1.0	7
104	Pregnancy-specific transcriptional changes upon endotoxin exposure in mice. <i>Journal of Perinatal Medicine</i> , 2020, 48, 700-722.	0.6	7
105	Gestational Age Dependence of the Maternal Circulating Long Non-Coding RNA Transcriptome During Normal Pregnancy Highlights Antisense and Pseudogene Transcripts. <i>Frontiers in Genetics</i> , 2021, 12, 760849.	1.1	7
106	Inter-species pathway perturbation prediction via data-driven detection of functional homology. <i>Bioinformatics</i> , 2015, 31, 501-508.	1.8	6
107	Developing Classifiers for the Detection of Cancer Using Multi-Analytes. <i>Methods in Molecular Biology</i> , 2009, 520, 259-272.	0.4	5
108	Fetal growth percentile software: a tool to calculate estimated fetal weight percentiles for 6 standards. <i>American Journal of Obstetrics and Gynecology</i> , 2020, 222, 625-628.	0.7	4

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109	The amniotic fluid proteome predicts imminent preterm delivery in asymptomatic women with a short cervix. <i>Scientific Reports</i> , 2022, 12, .	1.6	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. <i>Computational Toxicology</i> , 2018, 5, 31-37.	1.8	3
111	Proteomic identification of Placental Protein 1 (PP1), PP8, and PP22 and characterization of their placental expression in healthy pregnancies and in preeclampsia. <i>Placenta</i> , 2020, 99, 197-207.	0.7	3
112	Study protocol to quantify the genetic architecture of sonographic cervical length and its relationship to spontaneous preterm birth. <i>BMJ Open</i> , 2022, 12, e053631.	0.8	3
113	Maternal plasma cytokines and the subsequent risk of uterine atony and postpartum hemorrhage. <i>Journal of Perinatal Medicine</i> , 2023, 51, 219-232.	0.6	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. <i>Computational Toxicology</i> , 2018, 5, 25-30.	1.8	1
115	Human Chorionic Gonadotropin Modulates the Transcriptome of the Myometrium and Cervix in Late Gestation. <i>Reproductive Sciences</i> , 2021, 28, 2246-2260.	1.1	1