

Natalie J Hannan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

114
papers

3,578
citations

32
h-index

58
g-index

117
ext. papers

4,259
ext. citations

4.5
avg, IF

5.28
L-index

#	Paper	IF	Citations
114	Silencing of Nrf genes in the human placenta as measured by SDS-PAGE and Western Blotting techniques.. <i>Placenta</i> , 2022 , 118, 70-74	3.4	
113	PSG7 and 9 (Pregnancy-Specific β 1 Glycoproteins 7 and 9): Novel Biomarkers for Preeclampsia.. <i>Journal of the American Heart Association</i> , 2022 , e024536	6	1
112	Circulating Activin A is elevated at 36 weeks gestation preceding a diagnosis of preeclampsia. <i>Pregnancy Hypertension</i> , 2021 , 27, 23-26	2.6	0
111	Clinical tools and biomarkers to predict preeclampsia.. <i>EBioMedicine</i> , 2021 , 75, 103780	8.8	6
110	NR4A2 expression is not altered in placentas from cases of growth restriction or preeclampsia, but is reduced in hypoxic cytotrophoblast. <i>Scientific Reports</i> , 2021 , 11, 20670	4.9	
109	A disintegrin and metalloproteinase 12 (ADAM12) is reduced at 36 weeks gestation in pregnancies destined to deliver small for gestational age infants. <i>Placenta</i> , 2021 , 117, 1-4	3.4	1
108	Receptors in host pathogen interactions between human cytomegalovirus and the placenta during congenital infection. <i>Reviews in Medical Virology</i> , 2021 , 31, e2233	11.7	1
107	DAAM2 is elevated in the circulation and placenta in pregnancies complicated by fetal growth restriction and is regulated by hypoxia. <i>Scientific Reports</i> , 2021 , 11, 5540	4.9	2
106	Evolution of the Human Cytokine Response from Acute Illness to Disease Resolution in SARS-Cov-2 Infection-Implications for Therapeutic Monitoring and Therapeutic Targets. <i>Journal of Clinical Immunology</i> , 2021 , 41, 1162-1164	5.7	0
105	Nicotinamide and its effects on endothelial dysfunction and secretion of antiangiogenic factors by primary human placental cells and tissues. <i>Placenta</i> , 2021 , 109, 28-31	3.4	1
104	Elevated Circulating and Placental SPINT2 Is Associated with Placental Dysfunction. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
103	Nanoparticles in pregnancy: the next frontier in reproductive therapeutics. <i>Human Reproduction Update</i> , 2021 , 27, 280-304	15.8	10
102	Circulating Tissue Factor Pathway Inhibitor (TFPI) is increased preceding preeclampsia diagnosis and in established preeclampsia. <i>Placenta</i> , 2021 , 105, 32-40	3.4	5
101	Pre-Clinical Investigation of Cardioprotective Beta-Blockers as a Therapeutic Strategy for Preeclampsia. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	1
100	Pre-eclampsia: Challenges for Nanomedicine Development in Pregnancy. <i>Trends in Molecular Medicine</i> , 2021 , 27, 824-825	11.5	0
99	Circulating syndecan-1 is reduced in pregnancies with poor fetal growth and its secretion regulated by matrix metalloproteinases and the mitochondria. <i>Scientific Reports</i> , 2021 , 11, 16595	4.9	1
98	LOX-1 expression is reduced in placenta from pregnancies complicated by preeclampsia and in hypoxic cytotrophoblast. <i>Pregnancy Hypertension</i> , 2021 , 25, 255-261	2.6	1

97	Circulating Growth Differentiation Factor 15 Is Increased Preceding Preeclampsia Diagnosis: Implications as a Disease Biomarker. <i>Journal of the American Heart Association</i> , 2021 , 10, e020302	6	4
96	Placental growth factor is negatively regulated by epidermal growth factor receptor (EGFR) signaling. <i>Placenta</i> , 2021 , 114, 22-28	3.4	0
95	Circulating SPINT1 is a biomarker of pregnancies with poor placental function and fetal growth restriction. <i>Nature Communications</i> , 2020 , 11, 2411	17.4	18
94	Aurora kinase mRNA expression is reduced with increasing gestational age and in severe early onset fetal growth restriction. <i>Placenta</i> , 2020 , 95, 53-61	3.4	2
93	Circulating Delta-like homolog 1 (DLK1) at 36 weeks is correlated with birthweight and is of placental origin. <i>Placenta</i> , 2020 , 91, 24-30	3.4	6
92	Combining metformin and sulfasalazine additively reduces the secretion of antiangiogenic factors from the placenta: Implications for the treatment of preeclampsia. <i>Placenta</i> , 2020 , 95, 78-83	3.4	7
91	Pravastatin as the statin of choice for reducing pre-eclampsia-associated endothelial dysfunction. <i>Pregnancy Hypertension</i> , 2020 , 20, 83-91	2.6	15
90	Circulating mRNAs are differentially expressed in pregnancies with severe placental insufficiency and at high risk of stillbirth. <i>BMC Medicine</i> , 2020 , 18, 145	11.4	13
89	Novel approaches to combat preeclampsia: from new drugs to innovative delivery. <i>Placenta</i> , 2020 , 102, 10-16	3.4	10
88	MicroRNAs 363 and 149 are differentially expressed in the maternal circulation preceding a diagnosis of preeclampsia. <i>Scientific Reports</i> , 2020 , 10, 18077	4.9	6
87	Esomeprazole and sulfasalazine in combination additively reduce sFlt-1 secretion and diminish endothelial dysfunction: potential for a combination treatment for preeclampsia. <i>Pregnancy Hypertension</i> , 2020 , 22, 86-92	2.6	5
86	Pravastatin, proton-pump inhibitors, metformin, micronutrients, and biologics: new horizons for the prevention or treatment of preeclampsia. <i>American Journal of Obstetrics and Gynecology</i> , 2020 ,	6.4	19
85	Sulfasalazine decreases soluble fms-like tyrosine kinase-1 secretion potentially via inhibition of upstream placental epidermal growth factor receptor signalling. <i>Placenta</i> , 2019 , 87, 53-57	3.4	4
84	Death associated protein kinase 1 (DAPK-1) is increased in preeclampsia. <i>Placenta</i> , 2019 , 88, 1-7	3.4	6
83	Circulating GATA2 mRNA is decreased among women destined to develop preeclampsia and may be of endothelial origin. <i>Scientific Reports</i> , 2019 , 9, 235	4.9	4
82	Effects of Superovulation on the Endometrium 2019 , 43-53		
81	Repurposing the selective estrogen receptor modulator to suppress gastrointestinal cancer growth. <i>EMBO Molecular Medicine</i> , 2019 , 11,	12	22
80	Proton Pump Inhibitors and Preeclampsia Risk Among 157 720 Women. <i>Hypertension</i> , 2019 , 73, 1097-1103	10.5	15

79	Sulfasalazine reduces placental secretion of antiangiogenic factors, up-regulates the secretion of placental growth factor and rescues endothelial dysfunction. <i>EBioMedicine</i> , 2019 , 41, 636-648	8.8	22
78	Circulating adrenomedullin mRNA is decreased in women destined to develop term preeclampsia. <i>Pregnancy Hypertension</i> , 2019 , 16, 16-25	2.6	6
77	IFPA meeting 2018 workshop report II: Abnormally invasive placenta; inflammation and infection; preeclampsia; gestational trophoblastic disease and drug delivery. <i>Placenta</i> , 2019 , 84, 9-13	3.4	5
76	The untapped potential of placenta-enriched molecules for diagnostic and therapeutic development. <i>Placenta</i> , 2019 , 84, 28-31	3.4	14
75	EGFR (Epidermal Growth Factor Receptor) Signaling and the Mitochondria Regulate sFlt-1 (Soluble FMS-Like Tyrosine Kinase-1) Secretion. <i>Hypertension</i> , 2019 , 73, 659-670	8.5	27
74	Reply. <i>American Journal of Obstetrics and Gynecology</i> , 2019 , 220, 207	6.4	
73	Vinorelbine Potently Induces Placental Cell Death, Does Not Harm Fertility and is a Potential Treatment for Ectopic Pregnancy. <i>EBioMedicine</i> , 2018 , 29, 166-176	8.8	3
72	Effect of sildenafil citrate on circulating levels of sFlt-1 in preeclampsia. <i>Pregnancy Hypertension</i> , 2018 , 13, 1-6	2.6	5
71	Melatonin enhances antioxidant molecules in the placenta, reduces secretion of soluble fms-like tyrosine kinase 1 (sFLT) from primary trophoblast but does not rescue endothelial dysfunction: An evaluation of its potential to treat preeclampsia. <i>PLoS ONE</i> , 2018 , 13, e0187082	3.7	23
70	Esomeprazole to treat women with preterm preeclampsia: a randomized placebo controlled trial. <i>American Journal of Obstetrics and Gynecology</i> , 2018 , 219, 388.e1-388.e17	6.4	39
69	Animal models of preeclampsia: translational failings and why. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018 , 314, R499-R508	3.2	27
68	Combining metformin and esomeprazole is additive in reducing sFlt-1 secretion and decreasing endothelial dysfunction - implications for treating preeclampsia. <i>PLoS ONE</i> , 2018 , 13, e0188845	3.7	25
67	Measuring fetal brain and lung transcripts in amniotic fluid supernatant: a comparison of digital PCR and RT-qPCR methods. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2018 , 31, 3191-3196	2	2
66	Disulfiram inhibits placental soluble FMS-like tyrosine kinase-1 and soluble endoglin secretion independent of the proteasome. <i>Pregnancy Hypertension</i> , 2018 , 14, 125-130	2.6	0
65	EGFL7 gene expression is regulated by hypoxia in trophoblast and altered in the plasma of patients with early preeclampsia. <i>Pregnancy Hypertension</i> , 2018 , 14, 115-120	2.6	4
64	Key players of the necroptosis pathway RIPK1 and SIRT2 are altered in placenta from preeclampsia and fetal growth restriction. <i>Placenta</i> , 2017 , 51, 1-9	3.4	11
63	Proton Pump Inhibitors Decrease Soluble fms-Like Tyrosine Kinase-1 and Soluble Endoglin Secretion, Decrease Hypertension, and Rescue Endothelial Dysfunction. <i>Hypertension</i> , 2017 , 69, 457-468	8.5	84
62	Enoxaparin for the prevention of preeclampsia and intrauterine growth restriction in women with a history of preeclampsia: a randomized trial. <i>American Journal of Obstetrics and Gynecology</i> , 2017 , 216, 296.e1-296.e14	6.4	41

61	The circulating microRNA-200 family in whole blood are potential biomarkers for high-grade serous epithelial ovarian cancer. <i>Biomedical Reports</i> , 2017 , 6, 319-322	1.8	22
60	Resveratrol inhibits release of soluble fms-like tyrosine kinase (sFlt-1) and soluble endoglin and improves vascular dysfunction - implications as a preeclampsia treatment. <i>Scientific Reports</i> , 2017 , 7, 1819	4.9	39
59	Relaxin treatment reduces angiotensin II-induced vasoconstriction in pregnancy and protects against endothelial dysfunction <i>Biology of Reproduction</i> , 2017 , 96, 895-906	3.9	18
58	Epidermal Growth Factor Rescues Endothelial Dysfunction in Primary Human Tissues In Vitro. <i>Reproductive Sciences</i> , 2017 , 24, 1245-1252	3	11
57	Evidence of proteinuria, but no other characteristics of pre-eclampsia, in relaxin-deficient mice. <i>Reproduction, Fertility and Development</i> , 2017 , 29, 1477-1485	1.8	6
56	Activating Transcription Factor 3 Is Reduced in Preeclamptic Placentas and Negatively Regulates sFlt-1 (Soluble fms-Like Tyrosine Kinase 1), Soluble Endoglin, and Proinflammatory Cytokines in Placenta. <i>Hypertension</i> , 2017 , 70, 1014-1024	8.5	16
55	sFlt-1 and soluble endoglin concentrations in serum vs plasma in preterm preeclampsia: Are they interchangeable for biomarker studies?. <i>Pregnancy Hypertension</i> , 2017 , 10, 18-21	2.6	6
54	The angiotensin receptor blocker, Losartan, inhibits mammary tumor development and progression to invasive carcinoma. <i>Oncotarget</i> , 2017 , 8, 18640-18656	3.3	45
53	Abnormal plasma DNA profiles in early ovarian cancer using a non-invasive prenatal testing platform: implications for cancer screening. <i>BMC Medicine</i> , 2016 , 14, 126	11.4	50
52	Nuclear factor of activated T-cells (NFAT) regulates soluble fms-like tyrosine kinase-1 secretion (sFlt-1) from human placenta. <i>Placenta</i> , 2016 , 48, 110-118	3.4	7
51	Effects of simvastatin, rosuvastatin and pravastatin on soluble fms-like tyrosine kinase 1 (sFlt-1) and soluble endoglin (sENG) secretion from human umbilical vein endothelial cells, primary trophoblast cells and placenta. <i>BMC Pregnancy and Childbirth</i> , 2016 , 16, 117	3.2	32
50	Loss of Akt increases soluble endoglin release from endothelial cells but not placenta. <i>Pregnancy Hypertension</i> , 2016 , 6, 95-102	2.6	6
49	Jumonji Domain Containing Protein 6 Is Decreased in Human Preeclamptic Placentas and Regulates sFLT-1 Splice Variant Production. <i>Biology of Reproduction</i> , 2016 , 94, 59	3.9	14
48	Identifying late-onset fetal growth restriction by measuring circulating placental RNA in the maternal blood at 28 weeks gestation. <i>American Journal of Obstetrics and Gynecology</i> , 2016 , 214, 521.e1-521.e8	6.4	17
47	Metformin as a prevention and treatment for preeclampsia: effects on soluble fms-like tyrosine kinase 1 and soluble endoglin secretion and endothelial dysfunction. <i>American Journal of Obstetrics and Gynecology</i> , 2016 , 214, 356.e1-356.e15	6.4	121
46	Placental Growth Factor Is Secreted by the Human Endometrium and Has Potential Important Functions during Embryo Development and Implantation. <i>PLoS ONE</i> , 2016 , 11, e0163096	3.7	17
45	Steroid sulfatase is increased in the placentas and whole blood of women with early-onset preeclampsia. <i>Placenta</i> , 2016 , 48, 72-79	3.4	7
44	A comparison of sample collection methods for quantifying cell-free fetal neurodevelopment transcripts in amniotic fluid. <i>BMC Research Notes</i> , 2016 , 9, 335	2.3	2

43	Fathers that are born small program alterations in the next-generation preimplantation rat embryos. <i>Journal of Nutrition</i> , 2015 , 145, 876-83	4.1	9
42	Low female birth weight and advanced maternal age programme alterations in next-generation blastocyst development. <i>Reproduction</i> , 2015 , 149, 497-510	3.8	5
41	Male obesity is associated with changed spermatozoa Cox4i1 mRNA level and altered seminal vesicle fluid composition in a mouse model. <i>Molecular Human Reproduction</i> , 2015 , 21, 424-34	4.4	50
40	Effects of Pravastatin on Human Placenta, Endothelium, and Women With Severe Preeclampsia. <i>Hypertension</i> , 2015 , 66, 687-97; discussion 445	8.5	111
39	Placental-Specific sFLT-1 e15a Protein Is Increased in Preeclampsia, Antagonizes Vascular Endothelial Growth Factor Signaling, and Has Antiangiogenic Activity. <i>Hypertension</i> , 2015 , 66, 1251-9	8.5	58
38	Heme Oxygenase-1 Is Not Decreased in Preeclamptic Placenta and Does Not Negatively Regulate Placental Soluble fms-Like Tyrosine Kinase-1 or Soluble Endoglin Secretion. <i>Hypertension</i> , 2015 , 66, 1073-81	8.5	24
37	YC-1 reduces placental sFlt-1 and soluble endoglin production and decreases endothelial dysfunction: A possible therapeutic for preeclampsia. <i>Molecular and Cellular Endocrinology</i> , 2015 , 413, 202-8	4.4	23
36	A wash step at collection of placental biopsies from preeclamptic pregnancies does not adversely affect levels of sFlt-1 or endoglin. <i>Pregnancy Hypertension</i> , 2015 , 5, 294-7	2.6	
35	Paternal obesity in a rodent model affects placental gene expression in a sex-specific manner. <i>Reproduction</i> , 2015 , 149, 435-44	3.8	42
34	In vitro embryo outgrowth is a bioassay of in vivo embryo implantation and development. <i>Asian Pacific Journal of Reproduction</i> , 2015 , 4, 240-241	1.1	5
33	Chorioamnionitis Occurring in Women With Preterm Rupture of the Fetal Membranes Is Associated With a Dynamic Increase in mRNAs Coding Cytokines in the Maternal Circulation. <i>Reproductive Sciences</i> , 2015 , 22, 852-9	3	14
32	Sofalcone upregulates the nuclear factor (erythroid-derived 2)-like 2/heme oxygenase-1 pathway, reduces soluble fms-like tyrosine kinase-1, and quenches endothelial dysfunction: potential therapeutic for preeclampsia. <i>Hypertension</i> , 2015 , 65, 855-62	8.5	38
31	Soluble endoglin production is upregulated by oxysterols but not quenched by pravastatin in primary placental and endothelial cells. <i>Placenta</i> , 2014 , 35, 724-31	3.4	32
30	Fresh versus frozen embryo transfer: backing clinical decisions with scientific and clinical evidence. <i>Human Reproduction Update</i> , 2014 , 20, 808-21	15.8	204
29	Endometrial signals improve embryo outcome: functional role of vascular endothelial growth factor isoforms on embryo development and implantation in mice. <i>Human Reproduction</i> , 2014 , 29, 2278-86	5.7	53
28	A bioplex analysis of cytokines and chemokines in first trimester maternal plasma to screen for predictors of miscarriage. <i>PLoS ONE</i> , 2014 , 9, e93320	3.7	12
27	Peptides do not prevent cleavage of endoglin to produce soluble endoglin. <i>Pregnancy Hypertension</i> , 2014 , 4, 255-8	2.6	
26	Characterization of protocols for primary trophoblast purification, optimized for functional investigation of sFlt-1 and soluble endoglin. <i>Pregnancy Hypertension</i> , 2014 , 4, 287-95	2.6	45

25	Proteomics of the human endometrium and uterine fluid: a pathway to biomarker discovery. <i>Fertility and Sterility</i> , 2013 , 99, 1086-92	4.8	70
24	Corin, an enzyme with a putative role in spiral artery remodeling, is up-regulated in late secretory endometrium and first trimester decidua. <i>Human Reproduction</i> , 2013 , 28, 1172-80	5.7	23
23	Defective soil for a fertile seed? Altered endometrial development is detrimental to pregnancy success. <i>PLoS ONE</i> , 2012 , 7, e53098	3.7	46
22	Paternal diet-induced obesity retards early mouse embryo development, mitochondrial activity and pregnancy health. <i>PLoS ONE</i> , 2012 , 7, e52304	3.7	98
21	Alternate roles for immune regulators: establishing endometrial receptivity for implantation. <i>Expert Review of Clinical Immunology</i> , 2011 , 7, 789-802	5.1	22
20	Analysis of fertility-related soluble mediators in human uterine fluid identifies VEGF as a key regulator of embryo implantation. <i>Endocrinology</i> , 2011 , 152, 4948-56	4.8	123
19	PC6 levels in uterine lavage are closely associated with uterine receptivity and significantly lower in a subgroup of women with unexplained infertility. <i>Human Reproduction</i> , 2011 , 26, 840-6	5.7	31
18	Local regulation of implantation at the human fetal-maternal interface. <i>International Journal of Developmental Biology</i> , 2010 , 54, 313-22	1.9	90
17	Models for study of human embryo implantation: choice of cell lines?. <i>Biology of Reproduction</i> , 2010 , 82, 235-45	3.9	208
16	Activin A regulates trophoblast cell adhesive properties: implications for implantation failure in women with endometriosis-associated infertility. <i>Human Reproduction</i> , 2010 , 25, 1767-74	5.7	25
15	2D-DiGE analysis of the human endometrial secretome reveals differences between receptive and nonreceptive states in fertile and infertile women. <i>Journal of Proteome Research</i> , 2010 , 9, 6256-64	5.6	110
14	Post-translational modifications and protein-specific isoforms in endometriosis revealed by 2D DIGE. <i>Journal of Proteome Research</i> , 2010 , 9, 2438-49	5.6	60
13	Proteomic characterization of midproliferative and midsecretory human endometrium. <i>Journal of Proteome Research</i> , 2009 , 8, 2032-44	5.6	86
12	Depletion of high-abundance serum proteins from human uterine lavages enhances detection of lower-abundance proteins. <i>Journal of Proteome Research</i> , 2009 , 8, 1099-103	5.6	27
11	Society for Reproductive Biology FoundersSLecture 2009. Preparing fertile soil: the importance of endometrial receptivity. <i>Reproduction, Fertility and Development</i> , 2009 , 21, 923-34	1.8	109
10	CX3CL1 and CCL14 regulate extracellular matrix and adhesion molecules in the trophoblast: potential roles in human embryo implantation. <i>Biology of Reproduction</i> , 2008 , 79, 58-65	3.9	55
9	Role of Chemokines in the Endometrium and in Embryo Implantation. <i>Postgraduate Obstetrics & Gynecology</i> , 2008 , 28, 1-7		
8	Proteomic Analysis of Endometrial Lavage Samples Provides New Insights into Proteins Important for Implantation.. <i>Biology of Reproduction</i> , 2008 , 78, 142-143	3.9	

7	Laser capture microdissection and cDNA array analysis of endometrium identify CCL16 and CCL21 as epithelial-derived inflammatory mediators associated with endometriosis. <i>Reproductive Biology and Endocrinology</i> , 2007 , 5, 18	5	35
6	Cytokines and chemokines during human embryo implantation: roles in implantation and early placentation. <i>Seminars in Reproductive Medicine</i> , 2007 , 25, 437-44	1.4	123
5	Role of chemokines in the endometrium and in embryo implantation. <i>Current Opinion in Obstetrics and Gynecology</i> , 2007 , 19, 266-72	2.4	79
4	The chemokines, CX3CL1, CCL14, and CCL4, promote human trophoblast migration at the feto-maternal interface. <i>Biology of Reproduction</i> , 2006 , 74, 896-904	3.9	144
3	Chemokine expression is dysregulated in the endometrium of women using progestin-only contraceptives and correlates to elevated recruitment of distinct leukocyte populations. <i>Human Reproduction</i> , 2005 , 20, 2724-35	5.7	23
2	Coexpression of fractalkine and its receptor in normal human endometrium and in endometrium from users of progestin-only contraception supports a role for fractalkine in leukocyte recruitment and endometrial remodeling. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004 , 89, 6119-29	5.6	74
1	Identification of chemokines important for leukocyte recruitment to the human endometrium at the times of embryo implantation and menstruation. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2004 , 89, 6155-67	5.6	228