Natalie J Hannan

List of Publications by Year
in descending order

115	4,763	94269	102304
papers	citations	37 h-index	66 g-index

117	117	117	5034
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Identification of Chemokines Important for Leukocyte Recruitment to the Human Endometrium at the Times of Embryo Implantation and Menstruation. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 6155-6167.	1.8	252
2	Fresh versus frozen embryo transfer: backing clinical decisions with scientific and clinical evidence. Human Reproduction Update, 2014, 20, 808-821.	5.2	249
3	Models for Study of Human Embryo Implantation: Choice of Cell Lines?1. Biology of Reproduction, 2010, 82, 235-245.	1.2	244
4	The Chemokines, CX3CL1, CCL14, and CCL4, Promote Human Trophoblast Migration at the Feto-Maternal Interface1. Biology of Reproduction, 2006, 74, 896-904.	1.2	174
5	Metformin as a prevention and treatment for preeclampsia: effectsÂonÂsoluble fms-like tyrosine kinase 1 and soluble endoglinÂsecretion and endothelial dysfunction. American Journal of Obstetrics and Gynecology, 2016, 214, 356.e1-356.e15.	0.7	156
6	Effects of Pravastatin on Human Placenta, Endothelium, and Women With Severe Preeclampsia. Hypertension, 2015, 66, 687-697.	1.3	154
7	Analysis of Fertility-Related Soluble Mediators in Human Uterine Fluid Identifies VEGF as a Key Regulator of Embryo Implantation. Endocrinology, 2011, 152, 4948-4956.	1.4	152
8	Cytokines and Chemokines during Human Embryo Implantation: Roles in Implantation and Early Placentation. Seminars in Reproductive Medicine, 2007, 25, 437-444.	0.5	138
9	2D-DiGE Analysis of the Human Endometrial Secretome Reveals Differences between Receptive and Nonreceptive States in Fertile and Infertile Women. Journal of Proteome Research, 2010, 9, 6256-6264.	1.8	126
10	Society for Reproductive Biology Founders' Lecture 2009. Preparing fertile soil: the importance of endometrial receptivity. Reproduction, Fertility and Development, 2009, 21, 923.	0.1	123
11	Paternal Diet-Induced Obesity Retards Early Mouse Embryo Development, Mitochondrial Activity and Pregnancy Health. PLoS ONE, 2012, 7, e52304.	1.1	120
12	Proton Pump Inhibitors Decrease Soluble fms-Like Tyrosine Kinase-1 and Soluble Endoglin Secretion, Decrease Hypertension, and Rescue Endothelial Dysfunction. Hypertension, 2017, 69, 457-468.	1.3	118
13	Local regulation of implantation at the human fetal-maternal interface. International Journal of Developmental Biology, 2010, 54, 313-322.	0.3	102
14	Role of chemokines in the endometrium and in embryo implantation. Current Opinion in Obstetrics and Gynecology, 2007, 19, 266-272.	0.9	99
15	Proteomic Characterization of Midproliferative and Midsecretory Human Endometrium. Journal of Proteome Research, 2009, 8, 2032-2044.	1.8	96
16	Proteomics of the human endometrium and uterine fluid: a pathway to biomarker discovery. Fertility and Sterility, 2013, 99, 1086-1092.	0.5	83
17	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. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 6119-6129.	1.8	82
18	Post-Translational Modifications and Protein-Specific Isoforms in Endometriosis Revealed by 2D DIGE. Journal of Proteome Research, 2010, 9, 2438-2449.	1.8	76

#	Article	IF	Citations
19	Clinical tools and biomarkers to predict preeclampsia. EBioMedicine, 2022, 75, 103780.	2.7	71
20	Placental-Specific sFLT-1 e15a Protein Is Increased in Preeclampsia, Antagonizes Vascular Endothelial Growth Factor Signaling, and Has Antiangiogenic Activity. Hypertension, 2015, 66, 1251-1259.	1.3	70
21	Abnormal plasma DNA profiles in early ovarian cancer using a non-invasive prenatal testing platform: implications for cancer screening. BMC Medicine, 2016, 14, 126.	2.3	69
22	CX3CL1 and CCL14 Regulate Extracellular Matrix and Adhesion Molecules in the Trophoblast: Potential Roles in Human Embryo Implantation1. Biology of Reproduction, 2008, 79, 58-65.	1.2	68
23	Male obesity is associated with changed spermatozoa Cox4i1 mRNA level and altered seminal vesicle fluid composition in a mouse model. Molecular Human Reproduction, 2015, 21, 424-434.	1.3	66
24	Enoxaparin for the prevention of preeclampsia andÂintrauterine growth restriction in women withÂaÂhistory:ÂaÂrandomized trial. American Journal of Obstetrics and Gynecology, 2017, 216, 296.e1-296.e14.	0.7	66
25	The angiotensin receptor blocker, Losartan, inhibits mammary tumor development and progression to invasive carcinoma. Oncotarget, 2017, 8, 18640-18656.	0.8	66
26	Esomeprazole to treat women with preterm preeclampsia: a randomized placebo controlled trial. American Journal of Obstetrics and Gynecology, 2018, 219, 388.e1-388.e17.	0.7	64
27	Paternal obesity in a rodent model affects placental gene expression in a sex-specific manner. Reproduction, 2015, 149, 435-444.	1.1	63
28	Endometrial signals improve embryo outcome: functional role of vascular endothelial growth factor isoforms on embryo development and implantation in mice. Human Reproduction, 2014, 29, 2278-2286.	0.4	60
29	Defective Soil for a Fertile Seed? Altered Endometrial Development Is Detrimental to Pregnancy Success. PLoS ONE, 2012, 7, e53098.	1.1	59
30	Characterization of protocols for primary trophoblast purification, optimized for functional investigation of sFlt-1 and soluble endoglin. Pregnancy Hypertension, 2014, 4, 287-295.	0.6	52
31	Animal models of preeclampsia: translational failings and why. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 314, R499-R508.	0.9	52
32	EGFR (Epidermal Growth Factor Receptor) Signaling and the Mitochondria Regulate sFlt-1 (Soluble) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.3	50
33	Resveratrol inhibits release of soluble fms-like tyrosine kinase (sFlt-1) and soluble endoglin and improves vascular dysfunction â€“ implications as a preeclampsia treatment. Scientific Reports, 2017, 7, 1819.	1.6	49
34	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. BMC Pregnancy and Childbirth, 2016, 16, 117.	0.9	47
35	Pravastatin, proton-pump inhibitors, metformin, micronutrients, and biologics: new horizons for the prevention or treatment of preeclampsia. American Journal of Obstetrics and Gynecology, 2022, 226, S1157-S1170.	0.7	47
36	Sofalcone Upregulates the Nuclear Factor (Erythroid-Derived 2)â€“Like 2/Heme Oxygenase-1 Pathway, Reduces Soluble fmsâ€“Like Tyrosine Kinase-1, and Quenches Endothelial Dysfunction. Hypertension, 2015, 65, 855-862.	1.3	44

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37	Laser capture microdissection and cDNA array analysis of endometrium identify CCL16 and CCL21 as epithelial-derived inflammatory mediators associated with endometriosis. Reproductive Biology and Endocrinology, 2007, 5, 18.	1.4	42
38	Nanoparticles in pregnancy: the next frontier in reproductive therapeutics. Human Reproduction Update, 2021, 27, 280-304.	5.2	42
39	Sulfasalazine reduces placental secretion of antiangiogenic factors, up-regulates the secretion of placental growth factor and rescues endothelial dysfunction. EBioMedicine, 2019, 41, 636-648.	2.7	38
40	Soluble endoglin production is upregulated by oxysterols but not quenched by pravastatin in primary placental and endothelial cells. Placenta, 2014, 35, 724-731.	0.7	37
41	Circulating SPINT1 is a biomarker of pregnancies with poor placental function and fetal growth restriction. Nature Communications, 2020, 11, 2411.	5.8	37
42	PC6 levels in uterine lavage are closely associated with uterine receptivity and significantly lower in a subgroup of women with unexplained infertility. Human Reproduction, 2011, 26, 840-846.	0.4	34
43	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. PLoS ONE, 2018, 13, e0187082.	1.1	34
44	Pravastatin as the statin of choice for reducing pre-eclampsia-associated endothelial dysfunction. Pregnancy Hypertension, 2020, 20, 83-91.	0.6	33
45	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. Hypertension, 2015, 66, 1073-1081.	1.3	32
46	Repurposing the selective estrogen receptor modulator bazedoxifene to suppress gastrointestinal cancer growth. EMBO Molecular Medicine, 2019, 11, .	3.3	32
47	Combining metformin and esomeprazole is additive in reducing sFlt-1 secretion and decreasing endothelial dysfunction â€“ implications for treating preeclampsia. PLoS ONE, 2018, 13, e0188845.	1.1	31
48	Depletion of High-Abundance Serum Proteins from Human Uterine Lavages Enhances Detection of Lower-Abundance Proteins. Journal of Proteome Research, 2009, 8, 1099-1103.	1.8	30
49	The untapped potential of placenta-enriched molecules for diagnostic and therapeutic development. Placenta, 2019, 84, 28-31.	0.7	30
50	Novel approaches to combat preeclampsia: from new drugs to innovative delivery. Placenta, 2020, 102, 10-16.	0.7	30
51	Activin A regulates trophoblast cell adhesive properties: implications for implantation failure in women with endometriosis-associated infertility. Human Reproduction, 2010, 25, 1767-1774.	0.4	29
52	Alternate roles for immune regulators: establishing endometrial receptivity for implantation. Expert Review of Clinical Immunology, 2011, 7, 789-802.	1.3	28
53	Corin, an enzyme with a putative role in spiral artery remodeling, is up-regulated in late secretory endometrium and first trimester decidua. Human Reproduction, 2013, 28, 1172-1180.	0.4	27
54	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. Hypertension, 2017, 70, 1014-1024.	1.3	27

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55	Placental Growth Factor Is Secreted by the Human Endometrium and Has Potential Important Functions during Embryo Development and Implantation. PLoS ONE, 2016, 11, e0163096.	1.1	27
56	YC-1 reduces placental sFlt-1 and soluble endoglin production and decreases endothelial dysfunction: A possible therapeutic for preeclampsia. Molecular and Cellular Endocrinology, 2015, 413, 202-208.	1.6	26
57	The circulating microRNA-200 family in whole blood are potential biomarkers for high-grade serous epithelial ovarian cancer. Biomedical Reports, 2017, 6, 319-322.	0.9	26
58	Relaxin treatment reduces angiotensin II-induced vasoconstriction in pregnancy and protects against endothelial dysfunctionâ€. Biology of Reproduction, 2017, 96, 895-906.	1.2	26
59	Chemokine expression is dysregulated in the endometrium of women using progestin-only contraceptives and correlates to elevated recruitment of distinct leukocyte populations. Human Reproduction, 2005, 20, 2724-2735.	0.4	25
60	Circulating mRNAs are differentially expressed in pregnancies with severe placental insufficiency and at high risk of stillbirth. BMC Medicine, 2020, 18, 145.	2.3	25
61	Proton Pump Inhibitors and Preeclampsia Risk Among 157â€‰720 Women. Hypertension, 2019, 73, 1097-1103.	1.3	22
62	Identifying late-onset fetal growth restriction by measuring circulating placental RNA in the maternal blood at 28 weeksâ€™ gestation. American Journal of Obstetrics and Gynecology, 2016, 214, 521.e1-521.e8.	0.7	21
63	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. Reproductive Sciences, 2015, 22, 852-859.	1.1	20
64	Key players of the necroptosis pathway RIPK1 and SIRT2 are altered in placenta from preeclampsia and fetal growth restriction. Placenta, 2017, 51, 1-9.	0.7	20
65	A Bioplex Analysis of Cytokines and Chemokines in First Trimester Maternal Plasma to Screen for Predictors of Miscarriage. PLoS ONE, 2014, 9, e93320.	1.1	17
66	Jumonji Domain Containing Protein 6 Is Decreased in Human Preeclamptic Placentas and Regulates sFLT-1 Splice Variant Production1. Biology of Reproduction, 2016, 94, 59.	1.2	17
67	Circulating Growth Differentiation Factor 15 Is Increased Preceding Preeclampsia Diagnosis: Implications as a Disease Biomarker. Journal of the American Heart Association, 2021, 10, e020302.	1.6	17
68	Esomeprazole and sulfasalazine in combination additively reduce sFlt-1 secretion and diminish endothelial dysfunction: potential for a combination treatment for preeclampsia. Pregnancy Hypertension, 2020, 22, 86-92.	0.6	15
69	Nuclear factor of activated T-cells (NFAT) regulates soluble fms-like tyrosine kinase-1 secretion (sFlt-1) from human placenta. Placenta, 2016, 48, 110-118.	0.7	12
70	Combining metformin and sulfasalazine additively reduces the secretion of antiangiogenic factors from the placenta: Implications for the treatment of preeclampsia. Placenta, 2020, 95, 78-83.	0.7	12
71	Epidermal Growth Factor Rescues Endothelial Dysfunction in Primary Human Tissues In Vitro. Reproductive Sciences, 2017, 24, 1245-1252.	1.1	11
72	Circulating adrenomedullin mRNA is decreased in women destined to develop term preeclampsia. Pregnancy Hypertension, 2019, 16, 16-25.	0.6	11

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73	MicroRNAs 363 and 149 are differentially expressed in the maternal circulation preceding a diagnosis of preeclampsia. Scientific Reports, 2020, 10, 18077.	1.6	11
74	InÂvitro embryo outgrowth is a bioassay of inÂvivo embryo implantation and development. Asian Pacific Journal of Reproduction, 2015, 4, 240-241.	0.2	10
75	Fathers That Are Born Small Program Alterations in the Next-Generation Preimplantation Rat Embryos ,. Journal of Nutrition, 2015, 145, 876-883.	1.3	10
76	Sulfasalazine decreases soluble fms-like tyrosine kinase-1 secretion potentially via inhibition of upstream placental epidermal growth factor receptor signalling. Placenta, 2019, 87, 53-57.	0.7	9
77	Death associated protein kinase 1 (DAPK-1) is increased in preeclampsia. Placenta, 2019, 88, 1-7.	0.7	9
78	Circulating Delta-like homolog 1 (DLK1) at 36 weeks is correlated with birthweight and is of placental origin. Placenta, 2020, 91, 24-30.	0.7	9
79	Elevated Circulating and Placental SPINT2 Is Associated with Placental Dysfunction. International Journal of Molecular Sciences, 2021, 22, 7467.	1.8	9
80	Steroid sulfatase is increased in the placentas and whole blood of women with early-onset preeclampsia. Placenta, 2016, 48, 72-79.	0.7	9
81	Evidence of proteinuria, but no other characteristics of pre-eclampsia, in relaxin-deficient mice. Reproduction, Fertility and Development, 2017, 29, 1477.	0.1	8
82	sFlt-1 and soluble endoglin concentrations in serum vs plasma in preterm preeclampsia: Are they interchangeable for biomarker studies?. Pregnancy Hypertension, 2017, 10, 18-21.	0.6	8
83	Effect of sildenafil citrate on circulating levels of sFlt-1 in preeclampsia. Pregnancy Hypertension, 2018, 13, 1-6.	0.6	8
84	Circulating GATA2 mRNA is decreased among women destined to develop preeclampsia and may be of endothelial origin. Scientific Reports, 2019, 9, 235.	1.6	8
85	IFPA meeting 2018 workshop report II: Abnormally invasive placenta; inflammation and infection; preeclampsia; gestational trophoblastic disease and drug delivery. Placenta, 2019, 84, 9-13.	0.7	8
86	Circulating Tissue Factor Pathway Inhibitor (TFPI) is increased preceding preeclampsia diagnosis and in established preeclampsia. Placenta, 2021, 105, 32-40.	0.7	8
87	DAAM2 is elevated in the circulation and placenta in pregnancies complicated by fetal growth restriction and is regulated by hypoxia. Scientific Reports, 2021, 11, 5540.	1.6	8
88	Low female birth weight and advanced maternal age programme alterations in next-generation blastocyst development. Reproduction, 2015, 149, 497-510.	1.1	7
89	Aurora kinase mRNA expression is reduced with increasing gestational age and in severe early onset fetal growth restriction. Placenta, 2020, 95, 53-61.	0.7	7
90	A disintegrin and metalloproteinase 12 (ADAM12) is reduced at 36 weeksâ€™ gestation in pregnancies destined to deliver small for gestational age infants. Placenta, 2022, 117, 1-4.	0.7	7

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91	Loss of Akt increases soluble endoglin release from endothelial cells but not placenta. Pregnancy Hypertension, 2016, 6, 95-102.	0.6	6
92	EGFL7 gene expression is regulated by hypoxia in trophoblast and altered in the plasma of patients with early preeclampsia. Pregnancy Hypertension, 2018, 14, 115-120.	0.6	6
93	Pre-Clinical Investigation of Cardioprotective Beta-Blockers as a Therapeutic Strategy for Preeclampsia. Journal of Clinical Medicine, 2021, 10, 3384.	1.0	5
94	Circulating syndecan-1 is reduced in pregnancies with poor fetal growth and its secretion regulated by matrix metalloproteinases and the mitochondria. Scientific Reports, 2021, 11, 16595.	1.6	5
95	Placental growth factor is negatively regulated by epidermal growth factor receptor (EGFR) signaling. Placenta, 2021, 114, 22-28.	0.7	5
96	PSG7 and 9 (Pregnancyâ€Specific Î²â€1 Glycoproteins 7 and 9): Novel Biomarkers for Preeclampsia. Journal of the American Heart Association, 2022, 11, e024536.	1.6	5
97	Vinorelbine Potently Induces Placental Cell Death, Does Not Harm Fertility and is a Potential Treatment for Ectopic Pregnancy. EBioMedicine, 2018, 29, 166-176.	2.7	4
98	Circulating SPINT1 Is Reduced in a Preeclamptic Cohort with Co-Existing Fetal Growth Restriction. Journal of Clinical Medicine, 2022, 11, 901.	1.0	4
99	Circulating Activin A is elevated at 36Âweeksâ€™ gestation preceding a diagnosis of preeclampsia. Pregnancy Hypertension, 2022, 27, 23-26.	0.6	3
100	A comparison of sample collection methods for quantifying cell-free fetal neurodevelopment transcripts in amniotic fluid. BMC Research Notes, 2016, 9, 335.	0.6	2
101	Measuring fetal brain and lung transcripts in amniotic fluid supernatant: a comparison of digital PCR and RT-qPCR methods. Journal of Maternal-Fetal and Neonatal Medicine, 2018, 31, 3191-3196.	0.7	2
102	Receptors in host pathogen interactions between human cytomegalovirus and the placenta during congenital infection. Reviews in Medical Virology, 2021, 31, e2233.	3.9	2
103	Evolution of the Human Cytokine Response from Acute Illness to Disease Resolution in SARS-Cov-2 Infectionâ€"Implications for Therapeutic Monitoring and Therapeutic Targets. Journal of Clinical Immunology, 2021, 41, 1162-1164.	2.0	2
104	Pre-eclampsia: Challenges for Nanomedicine Development in Pregnancy. Trends in Molecular Medicine, 2021, 27, 824-825.	3.5	2
105	LOX-1 expression is reduced in placenta from pregnancies complicated by preeclampsia and in hypoxic cytotrophoblast. Pregnancy Hypertension, 2021, 25, 255-261.	0.6	2
106	Disulfiram inhibits placental soluble FMS-like tyrosine kinase-1 and soluble endoglin secretion independent of the proteasome. Pregnancy Hypertension, 2018, 14, 125-130.	0.6	1
107	Nicotinamide and its effects on endothelial dysfunction and secretion of antiangiogenic factors by primary human placental cells and tissues. Placenta, 2021, 109, 28-31.	0.7	1
108	NR4A2 expression is not altered in placentas from cases of growth restriction or preeclampsia, but is reduced in hypoxic cytotrophoblast. Scientific Reports, 2021, 11, 20670.	1.6	1

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109	Role of Chemokines in the Endometrium and in Embryo Implantation. Postgraduate Obstetrics & Gynecology, 2008, 28, 1-7.	0.1	0
110	Peptides do not prevent cleavage of endoglin to produce soluble endoglin. Pregnancy Hypertension, 2014, 4, 255-258.	0.6	0
111	A wash step at collection of placental biopsies from preeclamptic pregnancies does not adversely affect levels of sFlt-1 or endoglin. Pregnancy Hypertension, 2015, 5, 294-297.	0.6	0
112	Effects of Superovulation on the Endometrium. , 2019, , 43-53.		0
113	Reply. American Journal of Obstetrics and Gynecology, 2019, 220, 207.	0.7	0
114	Proteomic Analysis of Endometrial Lavage Samples Provides New Insights into Proteins Important for Implantation.. Biology of Reproduction, 2008, 78, 142-143.	1.2	0
115	Silencing of Nrf genes in the human placenta as measured by SDS-PAGE and Western Blotting techniques. Placenta, 2022, 118, 70-74.	0.7	0