

# Natalie J Hannan

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/1651237/natalie-j-hannan-publications-by-citations.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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> , <b>2004</b> , 89, 6155-67	5.6	228
113	Models for study of human embryo implantation: choice of cell lines?. <i>Biology of Reproduction</i> , <b>2010</b> , 82, 235-45	3.9	208
112	Fresh versus frozen embryo transfer: backing clinical decisions with scientific and clinical evidence. <i>Human Reproduction Update</i> , <b>2014</b> , 20, 808-21	15.8	204
111	The chemokines, CX3CL1, CCL14, and CCL4, promote human trophoblast migration at the fetomaternal interface. <i>Biology of Reproduction</i> , <b>2006</b> , 74, 896-904	3.9	144
110	Analysis of fertility-related soluble mediators in human uterine fluid identifies VEGF as a key regulator of embryo implantation. <i>Endocrinology</i> , <b>2011</b> , 152, 4948-56	4.8	123
109	Cytokines and chemokines during human embryo implantation: roles in implantation and early placentation. <i>Seminars in Reproductive Medicine</i> , <b>2007</b> , 25, 437-44	1.4	123
108	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> , <b>2016</b> , 214, 356.e1-356.e15	6.4	121
107	Effects of Pravastatin on Human Placenta, Endothelium, and Women With Severe Preeclampsia. <i>Hypertension</i> , <b>2015</b> , 66, 687-97; discussion 445	8.5	111
106	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> , <b>2010</b> , 9, 6256-64	5.6	110
105	Society for Reproductive Biology FoundersSLecture 2009. Preparing fertile soil: the importance of endometrial receptivity. <i>Reproduction, Fertility and Development</i> , <b>2009</b> , 21, 923-34	1.8	109
104	Paternal diet-induced obesity retards early mouse embryo development, mitochondrial activity and pregnancy health. <i>PLoS ONE</i> , <b>2012</b> , 7, e52304	3.7	98
103	Local regulation of implantation at the human fetal-maternal interface. <i>International Journal of Developmental Biology</i> , <b>2010</b> , 54, 313-22	1.9	90
102	Proteomic characterization of midproliferative and midsecretory human endometrium. <i>Journal of Proteome Research</i> , <b>2009</b> , 8, 2032-44	5.6	86
101	Proton Pump Inhibitors Decrease Soluble fms-Like Tyrosine Kinase-1 and Soluble Endoglin Secretion, Decrease Hypertension, and Rescue Endothelial Dysfunction. <i>Hypertension</i> , <b>2017</b> , 69, 457-468	8.5	84
100	Role of chemokines in the endometrium and in embryo implantation. <i>Current Opinion in Obstetrics and Gynecology</i> , <b>2007</b> , 19, 266-72	2.4	79
99	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> , <b>2004</b> , 89, 6119-29	5.6	74
98	Proteomics of the human endometrium and uterine fluid: a pathway to biomarker discovery. <i>Fertility and Sterility</i> , <b>2013</b> , 99, 1086-92	4.8	70

97	Post-translational modifications and protein-specific isoforms in endometriosis revealed by 2D DIGE. <i>Journal of Proteome Research</i> , <b>2010</b> , 9, 2438-49	5.6	60
96	Placental-Specific sFLT-1 e15a Protein Is Increased in Preeclampsia, Antagonizes Vascular Endothelial Growth Factor Signaling, and Has Antiangiogenic Activity. <i>Hypertension</i> , <b>2015</b> , 66, 1251-9	8.5	58
95	CX3CL1 and CCL14 regulate extracellular matrix and adhesion molecules in the trophoblast: potential roles in human embryo implantation. <i>Biology of Reproduction</i> , <b>2008</b> , 79, 58-65	3.9	55
94	Endometrial signals improve embryo outcome: functional role of vascular endothelial growth factor isoforms on embryo development and implantation in mice. <i>Human Reproduction</i> , <b>2014</b> , 29, 2278-86	5.7	53
93	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> , <b>2015</b> , 21, 424-34	4.4	50
92	Abnormal plasma DNA profiles in early ovarian cancer using a non-invasive prenatal testing platform: implications for cancer screening. <i>BMC Medicine</i> , <b>2016</b> , 14, 126	11.4	50
91	Defective soil for a fertile seed? Altered endometrial development is detrimental to pregnancy success. <i>PLoS ONE</i> , <b>2012</b> , 7, e53098	3.7	46
90	The angiotensin receptor blocker, Losartan, inhibits mammary tumor development and progression to invasive carcinoma. <i>Oncotarget</i> , <b>2017</b> , 8, 18640-18656	3.3	45
89	Characterization of protocols for primary trophoblast purification, optimized for functional investigation of sFlt-1 and soluble endoglin. <i>Pregnancy Hypertension</i> , <b>2014</b> , 4, 287-95	2.6	45
88	Paternal obesity in a rodent model affects placental gene expression in a sex-specific manner. <i>Reproduction</i> , <b>2015</b> , 149, 435-44	3.8	42
87	Enoxaparin for the prevention of preeclampsia and intrauterine growth restriction in women with a history of IUGR: a randomized trial. <i>American Journal of Obstetrics and Gynecology</i> , <b>2017</b> , 216, 296.e1-296.e14	6.4	41
86	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> , <b>2017</b> , 7, 1819	4.9	39
85	Esomeprazole to treat women with preterm preeclampsia: a randomized placebo controlled trial. <i>American Journal of Obstetrics and Gynecology</i> , <b>2018</b> , 219, 388.e1-388.e17	6.4	39
84	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> , <b>2015</b> , 65, 855-62	8.5	38
83	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> , <b>2007</b> , 5, 18	5	35
82	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> , <b>2016</b> , 16, 117	3.2	32
81	Soluble endoglin production is upregulated by oxysterols but not quenched by pravastatin in primary placental and endothelial cells. <i>Placenta</i> , <b>2014</b> , 35, 724-31	3.4	32
80	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> , <b>2011</b> , 26, 840-6	5.7	31

79	Animal models of preeclampsia: translational failings and why. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2018</b> , 314, R499-R508	3.2	27
78	Depletion of high-abundance serum proteins from human uterine lavages enhances detection of lower-abundance proteins. <i>Journal of Proteome Research</i> , <b>2009</b> , 8, 1099-103	5.6	27
77	EGFR (Epidermal Growth Factor Receptor) Signaling and the Mitochondria Regulate sFlt-1 (Soluble FMS-Like Tyrosine Kinase-1) Secretion. <i>Hypertension</i> , <b>2019</b> , 73, 659-670	8.5	27
76	Combining metformin and esomeprazole is additive in reducing sFlt-1 secretion and decreasing endothelial dysfunction - implications for treating preeclampsia. <i>PLoS ONE</i> , <b>2018</b> , 13, e0188845	3.7	25
75	Activin A regulates trophoblast cell adhesive properties: implications for implantation failure in women with endometriosis-associated infertility. <i>Human Reproduction</i> , <b>2010</b> , 25, 1767-74	5.7	25
74	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> , <b>2015</b> , 66, 1073-81	8.5	24
73	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> , <b>2015</b> , 413, 202-8	4.4	23
72	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> , <b>2018</b> , 13, e0187082	3.7	23
71	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> , <b>2013</b> , 28, 1172-80	5.7	23
70	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> , <b>2005</b> , 20, 2724-35	5.7	23
69	The circulating microRNA-200 family in whole blood are potential biomarkers for high-grade serous epithelial ovarian cancer. <i>Biomedical Reports</i> , <b>2017</b> , 6, 319-322	1.8	22
68	Repurposing the selective estrogen receptor modulator to suppress gastrointestinal cancer growth. <i>EMBO Molecular Medicine</i> , <b>2019</b> , 11,	12	22
67	Sulfasalazine reduces placental secretion of antiangiogenic factors, up-regulates the secretion of placental growth factor and rescues endothelial dysfunction. <i>EBioMedicine</i> , <b>2019</b> , 41, 636-648	8.8	22
66	Alternate roles for immune regulators: establishing endometrial receptivity for implantation. <i>Expert Review of Clinical Immunology</i> , <b>2011</b> , 7, 789-802	5.1	22
65	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> , <b>2020</b> ,	6.4	19
64	Relaxin treatment reduces angiotensin II-induced vasoconstriction in pregnancy and protects against endothelial dysfunction. <i>Biology of Reproduction</i> , <b>2017</b> , 96, 895-906	3.9	18
63	Circulating SPINT1 is a biomarker of pregnancies with poor placental function and fetal growth restriction. <i>Nature Communications</i> , <b>2020</b> , 11, 2411	17.4	18
62	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> , <b>2016</b> , 214, 521.e1-521.e8	6.4	17

61	Placental Growth Factor Is Secreted by the Human Endometrium and Has Potential Important Functions during Embryo Development and Implantation. <i>PLoS ONE</i> , <b>2016</b> , 11, e0163096	3.7	17
60	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> , <b>2017</b> , 70, 1014-1024	8.5	16
59	Proton Pump Inhibitors and Preeclampsia Risk Among 157 720 Women. <i>Hypertension</i> , <b>2019</b> , 73, 1097-1103	8.5	15
58	Pravastatin as the statin of choice for reducing pre-eclampsia-associated endothelial dysfunction. <i>Pregnancy Hypertension</i> , <b>2020</b> , 20, 83-91	2.6	15
57	Jumonji Domain Containing Protein 6 Is Decreased in Human Preeclamptic Placentas and Regulates sFLT-1 Splice Variant Production. <i>Biology of Reproduction</i> , <b>2016</b> , 94, 59	3.9	14
56	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> , <b>2015</b> , 22, 852-9	3	14
55	The untapped potential of placenta-enriched molecules for diagnostic and therapeutic development. <i>Placenta</i> , <b>2019</b> , 84, 28-31	3.4	14
54	Circulating mRNAs are differentially expressed in pregnancies with severe placental insufficiency and at high risk of stillbirth. <i>BMC Medicine</i> , <b>2020</b> , 18, 145	11.4	13
53	A bioplex analysis of cytokines and chemokines in first trimester maternal plasma to screen for predictors of miscarriage. <i>PLoS ONE</i> , <b>2014</b> , 9, e93320	3.7	12
52	Key players of the necroptosis pathway RIPK1 and SIRT2 are altered in placenta from preeclampsia and fetal growth restriction. <i>Placenta</i> , <b>2017</b> , 51, 1-9	3.4	11
51	Epidermal Growth Factor Rescues Endothelial Dysfunction in Primary Human Tissues In Vitro. <i>Reproductive Sciences</i> , <b>2017</b> , 24, 1245-1252	3	11
50	Novel approaches to combat preeclampsia: from new drugs to innovative delivery. <i>Placenta</i> , <b>2020</b> , 102, 10-16	3.4	10
49	Nanoparticles in pregnancy: the next frontier in reproductive therapeutics. <i>Human Reproduction Update</i> , <b>2021</b> , 27, 280-304	15.8	10
48	Fathers that are born small program alterations in the next-generation preimplantation rat embryos. <i>Journal of Nutrition</i> , <b>2015</b> , 145, 876-83	4.1	9
47	Combining metformin and sulfasalazine additively reduces the secretion of antiangiogenic factors from the placenta: Implications for the treatment of preeclampsia. <i>Placenta</i> , <b>2020</b> , 95, 78-83	3.4	7
46	Nuclear factor of activated T-cells (NFAT) regulates soluble fms-like tyrosine kinase-1 secretion (sFlt-1) from human placenta. <i>Placenta</i> , <b>2016</b> , 48, 110-118	3.4	7
45	Steroid sulfatase is increased in the placentas and whole blood of women with early-onset preeclampsia. <i>Placenta</i> , <b>2016</b> , 48, 72-79	3.4	7
44	Evidence of proteinuria, but no other characteristics of pre-eclampsia, in relaxin-deficient mice. <i>Reproduction, Fertility and Development</i> , <b>2017</b> , 29, 1477-1485	1.8	6

43	Death associated protein kinase 1 (DA PK-1) is increased in preeclampsia. <i>Placenta</i> , <b>2019</b> , 88, 1-7	3.4	6
42	Circulating adrenomedullin mRNA is decreased in women destined to develop term preeclampsia. <i>Pregnancy Hypertension</i> , <b>2019</b> , 16, 16-25	2.6	6
41	Circulating Delta-like homolog 1 (DLK1) at 36 weeks is correlated with birthweight and is of placental origin. <i>Placenta</i> , <b>2020</b> , 91, 24-30	3.4	6
40	Loss of Akt increases soluble endoglin release from endothelial cells but not placenta. <i>Pregnancy Hypertension</i> , <b>2016</b> , 6, 95-102	2.6	6
39	sFlt-1 and soluble endoglin concentrations in serum vs plasma in preterm preeclampsia: Are they interchangeable for biomarker studies?. <i>Pregnancy Hypertension</i> , <b>2017</b> , 10, 18-21	2.6	6
38	Clinical tools and biomarkers to predict preeclampsia.. <i>EBioMedicine</i> , <b>2021</b> , 75, 103780	8.8	6
37	MicroRNAs 363 and 149 are differentially expressed in the maternal circulation preceding a diagnosis of preeclampsia. <i>Scientific Reports</i> , <b>2020</b> , 10, 18077	4.9	6
36	Low female birth weight and advanced maternal age programme alterations in next-generation blastocyst development. <i>Reproduction</i> , <b>2015</b> , 149, 497-510	3.8	5
35	Effect of sildenafil citrate on circulating levels of sFlt-1 in preeclampsia. <i>Pregnancy Hypertension</i> , <b>2018</b> , 13, 1-6	2.6	5
34	In vitro embryo outgrowth is a bioassay of in vivo embryo implantation and development. <i>Asian Pacific Journal of Reproduction</i> , <b>2015</b> , 4, 240-241	1.1	5
33	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> , <b>2020</b> , 22, 86-92	2.6	5
32	IFPA meeting 2018 workshop report II: Abnormally invasive placenta; inflammation and infection; preeclampsia; gestational trophoblastic disease and drug delivery. <i>Placenta</i> , <b>2019</b> , 84, 9-13	3.4	5
31	Circulating Tissue Factor Pathway Inhibitor (TFPI) is increased preceding preeclampsia diagnosis and in established preeclampsia. <i>Placenta</i> , <b>2021</b> , 105, 32-40	3.4	5
30	Sulfasalazine decreases soluble fms-like tyrosine kinase-1 secretion potentially via inhibition of upstream placental epidermal growth factor receptor signalling. <i>Placenta</i> , <b>2019</b> , 87, 53-57	3.4	4
29	Circulating GATA2 mRNA is decreased among women destined to develop preeclampsia and may be of endothelial origin. <i>Scientific Reports</i> , <b>2019</b> , 9, 235	4.9	4
28	EGFL7 gene expression is regulated by hypoxia in trophoblast and altered in the plasma of patients with early preeclampsia. <i>Pregnancy Hypertension</i> , <b>2018</b> , 14, 115-120	2.6	4
27	Circulating Growth Differentiation Factor 15 Is Increased Preceding Preeclampsia Diagnosis: Implications as a Disease Biomarker. <i>Journal of the American Heart Association</i> , <b>2021</b> , 10, e020302	6	4
26	Vinorelbine Potently Induces Placental Cell Death, Does Not Harm Fertility and is a Potential Treatment for Ectopic Pregnancy. <i>EBioMedicine</i> , <b>2018</b> , 29, 166-176	8.8	3

25	Elevated Circulating and Placental SPINT2 Is Associated with Placental Dysfunction. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
24	Aurora kinase mRNA expression is reduced with increasing gestational age and in severe early onset fetal growth restriction. <i>Placenta</i> , <b>2020</b> , 95, 53-61	3.4	2
23	DAAM2 is elevated in the circulation and placenta in pregnancies complicated by fetal growth restriction and is regulated by hypoxia. <i>Scientific Reports</i> , <b>2021</b> , 11, 5540	4.9	2
22	A comparison of sample collection methods for quantifying cell-free fetal neurodevelopment transcripts in amniotic fluid. <i>BMC Research Notes</i> , <b>2016</b> , 9, 335	2.3	2
21	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> , <b>2018</b> , 31, 3191-3196	2	2
20	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> , <b>2021</b> , 117, 1-4	3.4	1
19	Receptors in host pathogen interactions between human cytomegalovirus and the placenta during congenital infection. <i>Reviews in Medical Virology</i> , <b>2021</b> , 31, e2233	11.7	1
18	Nicotinamide and its effects on endothelial dysfunction and secretion of antiangiogenic factors by primary human placental cells and tissues. <i>Placenta</i> , <b>2021</b> , 109, 28-31	3.4	1
17	Pre-Clinical Investigation of Cardioprotective Beta-Blockers as a Therapeutic Strategy for Preeclampsia. <i>Journal of Clinical Medicine</i> , <b>2021</b> , 10,	5.1	1
16	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> , <b>2021</b> , 11, 16595	4.9	1
15	LOX-1 expression is reduced in placenta from pregnancies complicated by preeclampsia and in hypoxic cytotrophoblast. <i>Pregnancy Hypertension</i> , <b>2021</b> , 25, 255-261	2.6	1
14	PSG7 and 9 (Pregnancy-Specific $\alpha$ 1 Glycoproteins 7 and 9): Novel Biomarkers for Preeclampsia.. <i>Journal of the American Heart Association</i> , <b>2022</b> , e024536	6	1
13	Circulating Activin A is elevated at 36 weeks gestation preceding a diagnosis of preeclampsia. <i>Pregnancy Hypertension</i> , <b>2021</b> , 27, 23-26	2.6	0
12	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> , <b>2021</b> , 41, 1162-1164	5.7	0
11	Disulfiram inhibits placental soluble FMS-like tyrosine kinase-1 and soluble endoglin secretion independent of the proteasome. <i>Pregnancy Hypertension</i> , <b>2018</b> , 14, 125-130	2.6	0
10	Pre-eclampsia: Challenges for Nanomedicine Development in Pregnancy. <i>Trends in Molecular Medicine</i> , <b>2021</b> , 27, 824-825	11.5	0
9	Placental growth factor is negatively regulated by epidermal growth factor receptor (EGFR) signaling. <i>Placenta</i> , <b>2021</b> , 114, 22-28	3.4	0
8	Effects of Superovulation on the Endometrium <b>2019</b> , 43-53		

- 7 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, 294-7 2.6
- 6 Peptides do not prevent cleavage of endoglin to produce soluble endoglin. *Pregnancy Hypertension*, **2014**, 4, 255-8 2.6
- 5 Role of Chemokines in the Endometrium and in Embryo Implantation. *Postgraduate Obstetrics & Gynecology*, **2008**, 28, 1-7
- 4 Silencing of Nrf genes in the human placenta as measured by SDS-PAGE and Western Blotting techniques.. *Placenta*, **2022**, 118, 70-74 3.4
- 3 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 4.9
- 2 Proteomic Analysis of Endometrial Lavage Samples Provides New Insights into Proteins Important for Implantation.. *Biology of Reproduction*, **2008**, 78, 142-143 3.9
- 1 Reply. *American Journal of Obstetrics and Gynecology*, **2019**, 220, 207 6.4