

# Isabella Caniggia

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/1120245/isabella-caniggia-publications-by-citations.pdf>

**Version:** 2024-04-27

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.

80  
papers

8,791  
citations

38  
h-index

93  
g-index

97  
ext. papers

9,863  
ext. citations

5.3  
avg, IF

5.11  
L-index

#	Paper	IF	Citations
80	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , <b>2016</b> , 12, 1-222	10.2	3838
79	Hypoxia-inducible factor-1 mediates the biological effects of oxygen on human trophoblast differentiation through TGFbeta(3). <i>Journal of Clinical Investigation</i> , <b>2000</b> , 105, 577-87	15.9	477
78	Molecular evidence of placental hypoxia in preeclampsia. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2005</b> , 90, 4299-308	5.6	286
77	Inhibition of TGF-beta 3 restores the invasive capability of extravillous trophoblasts in preeclamptic pregnancies. <i>Journal of Clinical Investigation</i> , <b>1999</b> , 103, 1641-50	15.9	280
76	Oxygen and placental development during the first trimester: implications for the pathophysiology of pre-eclampsia. <i>Placenta</i> , <b>2000</b> , 21 Suppl A, S25-30	3.4	275
75	Increased expression of sFlt-1 in in vivo and in vitro models of human placental hypoxia is mediated by HIF-1. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2006</b> , 291, R1085-93	3.2	248
74	Hypoxia favours necrotic versus apoptotic shedding of placental syncytiotrophoblast into the maternal circulation. <i>Placenta</i> , <b>2003</b> , 24, 181-90	3.4	238
73	Activin is a local regulator of human cytotrophoblast cell differentiation. <i>Endocrinology</i> , <b>1997</b> , 138, 3976-88	15.9	196
72	Human placental explants in culture: approaches and assessments. <i>Placenta</i> , <b>2005</b> , 26, 439-48	3.4	169
71	Adriana and Luisa Castellucci Award lecture 2001. Hypoxia inducible factor-1: oxygen regulation of trophoblast differentiation in normal and pre-eclamptic pregnancies--a review. <i>Placenta</i> , <b>2002</b> , 23 Suppl A, S47-57	3.4	157
70	Endoglin regulates trophoblast differentiation along the invasive pathway in human placental villous explants. <i>Endocrinology</i> , <b>1997</b> , 138, 4977-88	4.8	155
69	Disruption of sphingolipid metabolism augments ceramide-induced autophagy in preeclampsia. <i>Autophagy</i> , <b>2015</b> , 11, 653-69	10.2	96
68	A novel approach identifies new differentially methylated regions (DMRs) associated with imprinted genes. <i>Genome Research</i> , <b>2011</b> , 21, 465-76	9.7	87
67	Dynamic HIF1A regulation during human placental development. <i>Biology of Reproduction</i> , <b>2006</b> , 75, 112-21	3.1	86
66	Human placental hypoxia-inducible factor-1alpha expression correlates with clinical outcomes in chronic hypoxia in vivo. <i>American Journal of Pathology</i> , <b>2007</b> , 170, 2171-9	5.8	86
65	Severe intrauterine growth restriction pregnancies have increased placental endoglin levels: hypoxic regulation via transforming growth factor-beta 3. <i>American Journal of Pathology</i> , <b>2008</b> , 172, 77-85	5.8	85
64	Oxygen regulation of placental 11 beta-hydroxysteroid dehydrogenase 2: physiological and pathological implications. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2002</b> , 87, 4797-805	5.6	85

63	Nodal signals through activin receptor-like kinase 7 to inhibit trophoblast migration and invasion: implication in the pathogenesis of preeclampsia. <i>American Journal of Pathology</i> , <b>2011</b> , 178, 1177-89	5.8	83
62	Endothelial nitric-oxide synthase antisense (NOS3AS) gene encodes an autophagy-related protein (APG9-like2) highly expressed in trophoblast. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 18283-90	5.4	83
61	Sex-specific differences in placental global gene expression in pregnancies complicated by asthma. <i>Placenta</i> , <b>2011</b> , 32, 570-8	3.4	79
60	Abnormalities in oxygen sensing define early and late onset preeclampsia as distinct pathologies. <i>PLoS ONE</i> , <b>2010</b> , 5, e13288	3.7	76
59	Placental expression of soluble fms-like tyrosine kinase 1 is increased in singletons and twin pregnancies with intrauterine growth restriction. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2008</b> , 93, 285-92	5.6	68
58	Activin Is a Local Regulator of Human Cytotrophoblast Cell Differentiation		66
57	Placental metabolic reprogramming: do changes in the mix of energy-generating substrates modulate fetal growth?. <i>International Journal of Developmental Biology</i> , <b>2010</b> , 54, 409-19	1.9	62
56	Ultrasound-mediated oxygen delivery from chitosan nanobubbles. <i>International Journal of Pharmaceutics</i> , <b>2009</b> , 378, 215-7	6.5	60
55	Focal adhesion kinase is a key mediator of human trophoblast development. <i>Laboratory Investigation</i> , <b>2001</b> , 81, 1469-83	5.9	60
54	Developmental differences in the expression of FGF receptors between human and mouse embryos. <i>Placenta</i> , <b>2014</b> , 35, 1079-88	3.4	57
53	Cell culture models of human trophoblast: primary culture of trophoblast--a workshop report. <i>Placenta</i> , <b>2001</b> , 22 Suppl A, S107-9	3.4	53
52	A novel Mtd splice isoform is responsible for trophoblast cell death in pre-eclampsia. <i>Cell Death and Differentiation</i> , <b>2005</b> , 12, 441-52	12.7	51
51	Hypoxia-inducible factors in the first trimester human lung. <i>Journal of Histochemistry and Cytochemistry</i> , <b>2007</b> , 55, 355-63	3.4	50
50	Placental autophagy regulation by the BOK-MCL1 rheostat. <i>Autophagy</i> , <b>2013</b> , 9, 2140-53	10.2	45
49	Endoglin Regulates Trophoblast Differentiation along the Invasive Pathway in Human Placental Villous Explants		45
48	Effect of chemical stabilizers of hypoxia-inducible factors on early lung development. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>2007</b> , 293, L557-67	5.8	44
47	Ceramide-induced BOK promotes mitochondrial fission in preeclampsia. <i>Cell Death and Disease</i> , <b>2018</b> , 9, 298	9.8	42
46	Mechanisms of oxygen sensing in human trophoblast cells. <i>Placenta</i> , <b>2002</b> , 23 Suppl A, S58-68	3.4	41

45	A Single Sphingomyelin Species Promotes Exosomal Release of Endoglin into the Maternal Circulation in Preeclampsia. <i>Scientific Reports</i> , <b>2017</b> , 7, 12172	4.9	40
44	Hypoxic switch in mitochondrial myeloid cell leukemia factor-1/Mtd apoptotic rheostat contributes to human trophoblast cell death in preeclampsia. <i>American Journal of Pathology</i> , <b>2007</b> , 171, 496-506	5.8	40
43	Recent acquisition of imprinting at the rodent Sfmbt2 locus correlates with insertion of a large block of miRNAs. <i>BMC Genomics</i> , <b>2011</b> , 12, 204	4.5	38
42	Oxygen regulation of macrophage migration inhibitory factor in human placenta. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2007</b> , 292, E272-80	6	37
41	Experimental angiogenesis of arterial vasa vasorum. <i>Cell and Tissue Research</i> , <b>2002</b> , 307, 303-13	4.2	36
40	Mtd/Bok takes a swing: proapoptotic Mtd/Bok regulates trophoblast cell proliferation during human placental development and in preeclampsia. <i>Cell Death and Differentiation</i> , <b>2010</b> , 17, 846-59	12.7	35
39	Identification of novel isoforms of activin receptor-like kinase 7 (ALK7) generated by alternative splicing and expression of ALK7 and its ligand, Nodal, in human placenta. <i>Biology of Reproduction</i> , <b>2003</b> , 68, 1719-26	3.9	34
38	Augmented trophoblast cell death in preeclampsia can proceed via ceramide-mediated necroptosis. <i>Cell Death and Disease</i> , <b>2017</b> , 8, e2590	9.8	30
37	Fetal lung epithelial cells express receptors for platelet-derived growth factor. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>1993</b> , 9, 54-63	5.7	29
36	Aberrant TGF $\beta$ Signalling Contributes to Dysregulation of Sphingolipid Metabolism in Intrauterine Growth Restriction. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2015</b> , 100, E986-96	5.6	27
35	Aberrant TGF $\beta$ Signaling Contributes to Altered Trophoblast Differentiation in Preeclampsia. <i>Endocrinology</i> , <b>2016</b> , 157, 883-99	4.8	27
34	Hypoxia and preeclampsia: increased expression of urocortin 2 and urocortin 3. <i>Reproductive Sciences</i> , <b>2010</b> , 17, 833-43	3	26
33	Posttranscriptional regulation of human leukocyte antigen G during human extravillous cytotrophoblast differentiation. <i>Biology of Reproduction</i> , <b>2000</b> , 62, 1543-50	3.9	26
32	TGF $\beta$ 1 suppresses the activation of distinct dNK subpopulations in preeclampsia. <i>EBioMedicine</i> , <b>2019</b> , 39, 531-539	8.8	26
31	Molecular mechanisms of trophoblast survival: from implantation to birth. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , <b>2005</b> , 75, 262-80		24
30	Jumonji Domain Containing Protein 6: A Novel Oxygen Sensor in the Human Placenta. <i>Endocrinology</i> , <b>2015</b> , 156, 3012-25	4.8	23
29	Compromised JMJD6 Histone Demethylase Activity Affects VHL Gene Repression in Preeclampsia. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2018</b> , 103, 1545-1557	5.6	19
28	IFPA Trophoblast Research Award Lecture: the dynamic role of Bcl-2 family members in trophoblast cell fate. <i>Placenta</i> , <b>2009</b> , 30 Suppl A, S96-100	3.4	18

27	Review: Feto-placental vascularization: a multifaceted approach. <i>Placenta</i> , <b>2011</b> , 32 Suppl 2, S165-9	3.4	17
26	Increased placental mitochondrial fusion in gestational diabetes mellitus: an adaptive mechanism to optimize feto-placental metabolic homeostasis?. <i>BMJ Open Diabetes Research and Care</i> , <b>2020</b> , 8,	4.5	17
25	Attenuation of VEGFR-2 expression by sFlt-1 and low oxygen in human placenta. <i>PLoS ONE</i> , <b>2013</b> , 8, e81176	3.7	17
24	The double life of MULE in preeclamptic and IUGR placentae. <i>Cell Death and Disease</i> , <b>2012</b> , 3, e305	9.8	16
23	Integrin-linked kinase (ILK) is highly expressed in first trimester human chorionic villi and regulates migration of a human cytotrophoblast-derived cell line. <i>Biology of Reproduction</i> , <b>2006</b> , 74, 959-68	3.9	16
22	TGF-beta 3 expression during umbilical cord development and its alteration in pre-eclampsia. <i>Placenta</i> , <b>2002</b> , 23, 311-21	3.4	16
21	G9a controls placental vascular maturation by activating the Notch Pathway. <i>Development (Cambridge)</i> , <b>2017</b> , 144, 1976-1987	6.6	15
20	Hypoxia-inducible factor-1 stimulates postnatal lung development but does not prevent O2-induced alveolar injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2015</b> , 52, 448-58	5.7	14
19	Where polarity meets fusion: role of Par6 in trophoblast differentiation during placental development and preeclampsia. <i>Endocrinology</i> , <b>2013</b> , 154, 1296-309	4.8	13
18	Fetal lung fibroblasts selectively down-regulate proteoglycan synthesis in response to elevated oxygen. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 6625-30	5.4	12
17	Microbubble-mediated oxygen delivery to hypoxic tissues as a new therapeutic device. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2008</b> , 2008, 2067-70	0.9	11
16	Temporal and spatial differences in glycosaminoglycan synthesis by fetal lung fibroblasts. <i>Experimental Cell Research</i> , <b>1992</b> , 202, 252-8	4.2	11
15	Faulty oxygen sensing disrupts angiotensin function in trophoblast cell migration and predisposes to preeclampsia. <i>JCI Insight</i> , <b>2019</b> , 4,	9.9	11
14	Dynamic regulation of HIF1 $\beta$ stability by SUMO2/3 and SENP3 in the human placenta. <i>Placenta</i> , <b>2016</b> , 40, 8-17	3.4	11
13	PDGF-induced glycosaminoglycan synthesis is mediated via phosphatidylinositol 3-kinase. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , <b>1998</b> , 274, L702-13	5.8	9
12	Statins, Mevalonate Pathway and its Intermediate Products in Placental Development and Preeclampsia. <i>Current Molecular Pharmacology</i> , <b>2017</b> , 10, 152-160	3.7	9
11	Acid Sphingomyelinase Inhibition Attenuates Cell Death in Mechanically Ventilated Newborn Rat Lung. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2019</b> , 199, 760-772	10.2	9
10	Hypoxia-inducible regulation of placental BOK expression. <i>Biochemical Journal</i> , <b>2014</b> , 461, 391-402	3.8	8

- 9 The von Hippel Lindau tumour suppressor gene is a novel target of E2F4-mediated transcriptional repression in preeclampsia. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2018**, 1864, 3298-3308 6.8 7
- 8 Imaging mass spectrometry identifies prognostic ganglioside species in rodent intracranial transplants of glioma and medulloblastoma. *PLoS ONE*, **2017**, 12, e0176254 3.7 6
- 7 Factor inhibiting HIF1-A novel target of SUMOylation in the human placenta. *Oncotarget*, **2017**, 8, 114003-114018 3.1 3
- 6 Ceramide-Induced Lysosomal Biogenesis and Exocytosis in Early-Onset Preeclampsia Promotes Exosomal Release of SMPD1 Causing Endothelial Dysfunction. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 652651 5.7 3
- 5 JMJD6 Dysfunction Due to Iron Deficiency in Preeclampsia Disrupts Fibronectin Homeostasis Resulting in Diminished Trophoblast Migration. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 652607 5.7 2
- 4 Placental cell death patterns exhibit differences throughout gestation in two strains of laboratory mice. *Cell and Tissue Research*, **2019**, 378, 341-358 4.2 1
- 3 Distinct roles of UVRAG and EGFR signaling in skeletal muscle homeostasis. *Molecular Metabolism*, **2021**, 47, 101185 8.8 1
- 2 Dichotomy in hypoxia-induced mitochondrial fission in placental mesenchymal cells during development and preeclampsia: consequences for trophoblast mitochondrial homeostasis.. *Cell Death and Disease*, **2022**, 13, 191 9.8 1
- 1 Hypoxia-Associated Regulation within Implantation Sites **2014**, 217-226