

# Isabella Caniggia

## 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.

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	Dichotomy in hypoxia-induced mitochondrial fission in placental mesenchymal cells during development and preeclampsia: consequences for trophoblast mitochondrial homeostasis.. <i>Cell Death and Disease</i> , <b>2022</b> , 13, 191	9.8	1
79	Distinct roles of UVRAG and EGFR signaling in skeletal muscle homeostasis. <i>Molecular Metabolism</i> , <b>2021</b> , 47, 101185	8.8	1
78	Ceramide-Induced Lysosomal Biogenesis and Exocytosis in Early-Onset Preeclampsia Promotes Exosomal Release of SMPD1 Causing Endothelial Dysfunction. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 652651	5.7	3
77	JMJD6 Dysfunction Due to Iron Deficiency in Preeclampsia Disrupts Fibronectin Homeostasis Resulting in Diminished Trophoblast Migration. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 652607	5.7	2
76	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
75	Placental cell death patterns exhibit differences throughout gestation in two strains of laboratory mice. <i>Cell and Tissue Research</i> , <b>2019</b> , 378, 341-358	4.2	1
74	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
73	TGFb1 suppresses the activation of distinct dNK subpopulations in preeclampsia. <i>EBioMedicine</i> , <b>2019</b> , 39, 531-539	8.8	26
72	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
71	Ceramide-induced BOK promotes mitochondrial fission in preeclampsia. <i>Cell Death and Disease</i> , <b>2018</b> , 9, 298	9.8	42
70	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
69	The von Hippel Lindau tumour suppressor gene is a novel target of E2F4-mediated transcriptional repression in preeclampsia. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2018</b> , 1864, 3298-3308	6.0	7
68	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
67	G9a controls placental vascular maturation by activating the Notch Pathway. <i>Development (Cambridge)</i> , <b>2017</b> , 144, 1976-1987	6.6	15
66	Imaging mass spectrometry identifies prognostic ganglioside species in rodent intracranial transplants of glioma and medulloblastoma. <i>PLoS ONE</i> , <b>2017</b> , 12, e0176254	3.7	6
65	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
64	Factor inhibiting HIF1-A novel target of SUMOylation in the human placenta. <i>Oncotarget</i> , <b>2017</b> , 8, 114003-114018	3.4	18

63	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
62	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
61	Aberrant TGF $\beta$ Signaling Contributes to Altered Trophoblast Differentiation in Preeclampsia. <i>Endocrinology</i> , <b>2016</b> , 157, 883-99	4.8	27
60	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
59	Disruption of sphingolipid metabolism augments ceramide-induced autophagy in preeclampsia. <i>Autophagy</i> , <b>2015</b> , 11, 653-69	10.2	96
58	Hypoxia-inducible factor-1 stimulates postnatal lung development but does not prevent O <sub>2</sub> -induced alveolar injury. <i>American Journal of Respiratory Cell and Molecular Biology</i> , <b>2015</b> , 52, 448-58	5.7	14
57	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
56	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
55	Hypoxia-Associated Regulation within Implantation Sites <b>2014</b> , 217-226		
54	Hypoxia-inducible regulation of placental BOK expression. <i>Biochemical Journal</i> , <b>2014</b> , 461, 391-402	3.8	8
53	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
52	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
51	Placental autophagy regulation by the BOK-MCL1 rheostat. <i>Autophagy</i> , <b>2013</b> , 9, 2140-53	10.2	45
50	Attenuation of VEGFR-2 expression by sFlt-1 and low oxygen in human placenta. <i>PLoS ONE</i> , <b>2013</b> , 8, e81176	3.76	17
49	The double life of MULE in preeclamptic and IUGR placentae. <i>Cell Death and Disease</i> , <b>2012</b> , 3, e305	9.8	16
48	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
47	Review: Feto-placental vascularization: a multifaceted approach. <i>Placenta</i> , <b>2011</b> , 32 Suppl 2, S165-9	3.4	17
46	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

45	Recent acquisition of imprinting at the rodent Sfrmbt2 locus correlates with insertion of a large block of miRNAs. <i>BMC Genomics</i> , <b>2011</b> , 12, 204	4.5	38
44	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
43	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
42	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
41	Hypoxia and preeclampsia: increased expression of urocortin 2 and urocortin 3. <i>Reproductive Sciences</i> , <b>2010</b> , 17, 833-43	3	26
40	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
39	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
38	Ultrasound-mediated oxygen delivery from chitosan nanobubbles. <i>International Journal of Pharmaceutics</i> , <b>2009</b> , 378, 215-7	6.5	60
37	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
36	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
35	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
34	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
33	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
32	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
31	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
30	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
29	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
28	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

27	Dynamic HIF1A regulation during human placental development. <i>Biology of Reproduction</i> , <b>2006</b> , 75, 112-31	3.1	86
26	Molecular evidence of placental hypoxia in preeclampsia. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2005</b> , 90, 4299-308	5.6	286
25	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
24	Human placental explants in culture: approaches and assessments. <i>Placenta</i> , <b>2005</b> , 26, 439-48	3.4	169
23	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
22	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
21	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
20	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
19	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
18	Mechanisms of oxygen sensing in human trophoblast cells. <i>Placenta</i> , <b>2002</b> , 23 Suppl A, S58-68	3.4	41
17	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
16	Experimental angiogenesis of arterial vasa vasorum. <i>Cell and Tissue Research</i> , <b>2002</b> , 307, 303-13	4.2	36
15	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
14	Focal adhesion kinase is a key mediator of human trophoblast development. <i>Laboratory Investigation</i> , <b>2001</b> , 81, 1469-83	5.9	60
13	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
12	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
11	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
10	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

9	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
8	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
7	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
6	Activin is a local regulator of human cytotrophoblast cell differentiation. <i>Endocrinology</i> , <b>1997</b> , 138, 3976-88	4.8	196
5	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
4	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
3	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
2	Endoglin Regulates Trophoblast Differentiation along the Invasive Pathway in Human Placental Villous Explants		45
1	Activin Is a Local Regulator of Human Cytotrophoblast Cell Differentiation		66