

# Colin P Sibley

## List of Publications by Year in descending order

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77  
papers

4,700  
citations

126708

33  
h-index

98622

67  
g-index

80  
all docs

80  
docs citations

80  
times ranked

4220  
citing authors

#	ARTICLE	IF	CITATIONS
1	Placental-specific IGF-II is a major modulator of placental and fetal growth. <i>Nature</i> , 2002, 417, 945-948.	13.7	961
2	Adaptation of nutrient supply to fetal demand in the mouse involves interaction between the <i>Igf2</i> gene and placental transporter systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 19219-19224.	3.3	306
3	Association between the Activity of the System A Amino Acid Transporter in the Microvillous Plasma Membrane of the Human Placenta and Severity of Fetal Compromise in Intrauterine Growth Restriction. <i>Pediatric Research</i> , 1997, 42, 514-519.	1.1	257
4	Amino Acid (System A) Transporter Activity in Microvillous Membrane Vesicles from the Placentas of Appropriate and Small for Gestational Age Babies. <i>Pediatric Research</i> , 1993, 34, 661-665.	1.1	231
5	Placental Phenotypes of Intrauterine Growth. <i>Pediatric Research</i> , 2005, 58, 827-832.	1.1	216
6	Placental Adaptation: What Can We Learn from Birthweight:Placental Weight Ratio?. <i>Frontiers in Physiology</i> , 2016, 7, 28.	1.3	187
7	Placental nutrient supply and fetal growth. <i>International Journal of Developmental Biology</i> , 2010, 54, 377-390.	0.3	135
8	Review: Transport across the placenta of mice and women. <i>Placenta</i> , 2013, 34, S34-S39.	0.7	126
9	Sildenafil Citrate Rescues Fetal Growth in the Catechol- <i>O</i> -Methyl Transferase Knockout Mouse Model. <i>Hypertension</i> , 2012, 59, 1021-1028.	1.3	111
10	Maternal Perception of Reduced Fetal Movements Is Associated with Altered Placental Structure and Function. <i>PLoS ONE</i> , 2012, 7, e34851.	1.1	105
11	Predictors of Poor Perinatal Outcome following Maternal Perception of Reduced Fetal Movements – A Prospective Cohort Study. <i>PLoS ONE</i> , 2012, 7, e39784.	1.1	103
12	Purification and Na <sup>+</sup> uptake by human placental microvillus membrane vesicles prepared by three different methods. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1988, 945, 127-134.	1.4	97
13	Quantitative assessment of placental morphology may identify specific causes of stillbirth. <i>BMC Clinical Pathology</i> , 2016, 16, 1.	1.8	81
14	Neutral Amino Acid Uptake by the Microvillous Plasma Membrane of the Human Placenta Is Inversely Related to Fetal Size at Birth in Normal Pregnancy <sup>1</sup> . <i>Journal of Clinical Endocrinology and Metabolism</i> , 1998, 83, 3320-3326.	1.8	76
15	Review: Adaptation in placental nutrient supply to meet fetal growth demand: Implications for programming. <i>Placenta</i> , 2010, 31, S70-S74.	0.7	72
16	Paracellular permeability pathways in the human placenta: A quantitative and morphological study of maternal-fetal transfer of horseradish peroxidase. <i>Placenta</i> , 1993, 14, 63-73.	0.7	69
17	<sup>1</sup> and <sup>2</sup> * changes in the human placenta in response to maternal oxygen challenge. <i>Magnetic Resonance in Medicine</i> , 2013, 70, 1427-1433.	1.9	68
18	Effects of Resveratrol in Pregnancy Using Murine Models with Reduced Blood Supply to the Uterus. <i>PLoS ONE</i> , 2013, 8, e64401.	1.1	68

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19	Circulating Cytokines and Alarmins Associated with Placental Inflammation in High-Risk Pregnancies. American Journal of Reproductive Immunology, 2014, 72, 422-434.	1.2	63
20	Uric Acid Crystals Induce Placental Inflammation and Alter Trophoblast Function via an IL-1-Dependent Pathway: Implications for Fetal Growth Restriction. Journal of Immunology, 2017, 198, 443-451.	0.4	63
21	Developmental adaptations to increased fetal nutrient demand in mouse genetic models of IGF2-mediated overgrowth. FASEB Journal, 2011, 25, 1737-1745.	0.2	62
22	Treating the dysfunctional placenta. Journal of Endocrinology, 2017, 234, R81-R97.	1.2	62
23	Epidermal Growth Factor Stimulation of Trophoblast Differentiation Requires MAPK11/14 (p38 MAPK) Tj ETQq1 1 0.784314 rgBT /Overl	1.2	56
24	Effects of dietary nitrate supplementation, from beetroot juice, on blood pressure in hypertensive pregnant women: A randomised, double-blind, placebo-controlled feasibility trial. Nitric Oxide - Biology and Chemistry, 2018, 80, 37-44.	1.2	52
25	Characterization of cationic amino acid transporters and expression of endothelial nitric oxide synthase in human placental microvascular endothelial cells. FASEB Journal, 2004, 18, 125-127.	0.2	49
26	Permeability of the near-term rat placenta to hydrophilic solutes. Placenta, 1988, 9, 361-372.	0.7	48
27	Dysregulated flow-mediated vasodilatation in the human placenta in fetal growth restriction. Journal of Physiology, 2015, 593, 3077-3092.	1.3	46
28	Magnetic resonance imaging relaxation time measurements of the placenta at 1.5T. Placenta, 2011, 32, 1010-1015.	0.7	45
29	Effect of the Anti-Oxidant Tempol on Fetal Growth in a Mouse Model of Fetal Growth Restriction1. Biology of Reproduction, 2012, 87, 25, 1-8.	1.2	45
30	IFPA Gabor Than Award Lecture: Recognition of placental failure is key to saving babies' lives. Placenta, 2015, 36, S20-S28.	0.7	40
31	Mechanisms of ion transfer by the rat placenta: A model for the human placenta?. Placenta, 1994, 15, 675-691.	0.7	37
32	Preparation of plasma membrane vesicles from the rat placenta at term and measurement of Na+ uptake. Placenta, 1990, 11, 451-463.	0.7	36
33	Regulation of Transplacental Water Transfer: the Role of Fetoplacental Venous Tone. Placenta, 2006, 27, 560-567.	0.7	34
34	Isolation of Plasma Membrane Vesicles from Mouse Placenta at Term and Measurement of System A and System $\text{I}^2$ Amino Acid Transporter Activity. Placenta, 2010, 31, 53-59.	0.7	34
35	Placental Features of Late-Onset Adverse Pregnancy Outcome. PLoS ONE, 2015, 10, e0129117.	1.1	34
36	System A Amino Acid Transporter Activity in Human Placental Microvillous Membrane Vesicles in Relation to Various Anthropometric Measurements in Appropriate and Small for Gestational Age Babies. Pediatric Research, 1999, 45, 810-814.	1.1	34

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37	Activity and Expression of the Na <sup>+</sup> /H <sup>+</sup> Exchanger in the Microvillous Plasma Membrane of the Syncytiotrophoblast in Relation to Gestation and Small for Gestational Age Birth. <i>Pediatric Research</i> , 2000, 48, 652-659.	1.1	32
38	Maternal muscle mass may influence system A activity in human placenta. <i>Placenta</i> , 2010, 31, 418-422.	0.7	31
39	Integration of computational modeling with membrane transport studies reveals new insights into amino acid exchange transport mechanisms. <i>FASEB Journal</i> , 2015, 29, 2583-2594.	0.2	31
40	Knowledge needed about the exchange physiology of the placenta. <i>Placenta</i> , 2018, 64, S9-S15.	0.7	30
41	Sildenafil Therapy Normalizes the Aberrant Metabolomic Profile in the Comtâ~/â~ Mouse Model of Preeclampsia/Fetal Growth Restriction. <i>Scientific Reports</i> , 2015, 5, 18241.	1.6	26
42	Hypoxia and oxidative stress induce sterile placental inflammation in vitro. <i>Scientific Reports</i> , 2021, 11, 7281.	1.6	26
43	Effect of Fetal Growth Restriction on System A Amino Acid Transporter Activity in the Maternal Facing Plasma Membrane of Rat Syncytiotrophoblast. <i>Pediatric Research</i> , 1996, 40, 325-329.	1.1	26
44	Inwardly Rectifying K <sup>+</sup> Current and Differentiation of Human Placental Cytotrophoblast Cells in Culture. <i>Placenta</i> , 2001, 22, 328-336.	0.7	25
45	Absence of <sc><i>P</i></o></sc><sub>2</sub> change in fetal brain despite <sc><i>P</i></o></sc><sub>2</sub> increase in placenta in response to maternal oxygen challenge. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , 2014, 121, 1588-1594.	1.1	22
46	In Vitro Methods for Studying Human Placental Amino Acid Transport: <i>Placental Villous Fragments</i>. , 2006, 122, 253-264.		21
47	A Ca <sup>2+</sup> -activated Whole-Cell Cl <sup>-</sup> Conductance In Human Placental Cytotrophoblast Cells Activated Via a G Protein. <i>Journal of Membrane Biology</i> , 1996, 151, 131-138.	1.0	20
48	Human placental uptake of glutamine and glutamate is reduced in fetal growth restriction. <i>Scientific Reports</i> , 2020, 10, 16197.	1.6	19
49	The impact of a human IGF-II analog ([Leu <sup>27</sup> ]IGF-II) on fetal growth in a mouse model of fetal growth restriction. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016, 310, E24-E31.	1.8	17
50	Antenatal placental assessment in the prediction of adverse pregnancy outcome after reduced fetal movement. <i>PLoS ONE</i> , 2018, 13, e0206533.	1.1	17
51	Beetroot juice lowers blood pressure and improves endothelial function in pregnant eNOS <sup>â~/â~</sup> mice: importance of nitrateâ€independent effects. <i>Journal of Physiology</i> , 2020, 598, 4079-4092.	1.3	17
52	Melatonin Increases Fetal Weight in Wild-Type Mice but Not in Mouse Models of Fetal Growth Restriction. <i>Frontiers in Physiology</i> , 2018, 9, 1141.	1.3	16
53	Nitrite mediated vasorelaxation in human chorionic plate vessels is enhanced by hypoxia and dependent on the NO-sGC-cGMP pathway. <i>Nitric Oxide - Biology and Chemistry</i> , 2018, 80, 82-88.	1.2	16
54	Intermediate Conductance Ca <sup>2+</sup> -Activated K <sup>+</sup> Channels Modulate Human Placental Trophoblast Syncytialization. <i>PLoS ONE</i> , 2014, 9, e90961.	1.1	16

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55	Dietary interventions for fetal growth restriction – therapeutic potential of dietary nitrate supplementation in pregnancy. <i>Journal of Physiology</i> , 2017, 595, 5095-5102.	1.3	15
56	Mechanisms of solute transfer across the human placenta: effects of intrauterine growth restriction. <i>Fetal and Maternal Medicine Review</i> , 1998, 10, 197-206.	0.3	13
57	Adaptations in Maternofetal Calcium Transport in Relation to Placental Size and Fetal Sex in Mice. <i>Frontiers in Physiology</i> , 2017, 8, 1050.	1.3	13
58	Pomegranate Juice Supplementation Alters Utero-Placental Vascular Function and Fetal Growth in the eNOS <sup>-/-</sup> Mouse Model of Fetal Growth Restriction. <i>Frontiers in Physiology</i> , 2018, 9, 1145.	1.3	12
59	Targeted Delivery of Epidermal Growth Factor to the Human Placenta to Treat Fetal Growth Restriction. <i>Pharmaceutics</i> , 2021, 13, 1778.	2.0	12
60	R1 changes in the human placenta at 36 weeks in response to a maternal oxygen challenge protocol. <i>Placenta</i> , 2016, 39, 151-153.	0.7	11
61	In Vitro Human Placental Studies to Support Adenovirus-Mediated VEGF-D <sup>+</sup> Maternal Gene Therapy for the Treatment of Severe Early-Onset Fetal Growth Restriction. <i>Human Gene Therapy Clinical Development</i> , 2018, 29, 10-23.	3.2	11
62	Relation of placental alkaline phosphatase expression in human term placenta with maternal and offspring fat mass. <i>International Journal of Obesity</i> , 2018, 42, 1202-1210.	1.6	11
63	Chloride Transport across Syncytiotrophoblast Microvillous Membrane of First Trimester Human Placenta. <i>Pediatric Research</i> , 1998, 44, 226-232.	1.1	11
64	Oxygen-Sensitive K <sup>+</sup> Channels Modulate Human Chorionic Gonadotropin Secretion from Human Placental Trophoblast. <i>PLoS ONE</i> , 2016, 11, e0149021.	1.1	10
65	Evidence of adaptation of maternofetal transport of glutamine relative to placental size in normal mice, and in those with fetal growth restriction. <i>Journal of Physiology</i> , 2019, 597, 4975-4990.	1.3	9
66	In vitro assessment of mouse fetal abdominal aortic vascular function. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R746-R754.	0.9	7
67	Placental phenotype and fetal growth. <i>Journal of Physiology</i> , 2009, 587, 3429-3429.	1.3	5
68	The feasibility phase of a community antenatal lifestyle programme [The Lifestyle Course (TLC)] for women with a body mass index (BMI) ≥ 30 kg/m <sup>2</sup> . <i>Midwifery</i> , 2015, 31, 280-287.	1.0	5
69	Grape Seed Extract Polyphenols Improve Resistance Artery Function in Pregnant eNOS <sup>-/-</sup> Mice. <i>Frontiers in Physiology</i> , 2020, 11, 588000.	1.3	5
70	The atrial natriuretic peptide (ANP) knockout mouse does not exhibit the phenotypic features of pre-eclampsia or demonstrate fetal growth restriction. <i>Placenta</i> , 2016, 42, 25-27.	0.7	4
71	Mechanisms Underpinning Adaptations in Placental Calcium Transport in Normal Mice and Those With Fetal Growth Restriction. <i>Frontiers in Endocrinology</i> , 2018, 9, 671.	1.5	3
72	Electrical potential difference between mother and conceptus in the mouse. <i>Placenta</i> , 2005, 26, 349-352.	0.7	2

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73	Human Placental Arterial Distensibility, Birth Weight, and Body Size Are Positively Related to Fetal Homocysteine Concentration. <i>Reproductive Sciences</i> , 2017, 24, 1070-1078.	1.1	2
74	Enhanced Nitrite-Mediated Relaxation of Placental Blood Vessels Exposed to Hypoxia Is Preserved in Pregnancies Complicated by Fetal Growth Restriction. <i>International Journal of Molecular Sciences</i> , 2021, 22, 4500.	1.8	2
75	Increased fetal weight in wild-type mice following melatonin treatment: Effect on uterine artery function. <i>Placenta</i> , 2014, 35, A41-A42.	0.7	1
76	Exposure to omentum adipose tissue conditioned medium from obese pregnant women promotes myometrial artery dysfunction. <i>Journal of Obstetrics and Gynaecology Research</i> , 2018, 44, 124-133.	0.6	1
77	Deletion of the Imprinted <i>Phlda2</i> Gene Increases Placental Passive Permeability in the Mouse. <i>Genes</i> , 2021, 12, 639.	1.0	1