Rohan Lewis

List of Publications by Year
in descending order

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		172207	205818
93	2,774	29	48
papers	citations	h-index	g-index

108	108	108	2903
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Folding of the syncytiotrophoblast basal plasma membrane increases the surface area available for exchange in human placenta. Placenta, 2022, 117, 57-63.	0.7	9
2	The placental role in developmental programming. , 2022, , 1325-1338.		0
3	Placental uptake and metabolism of 25(OH)vitamin D determine its activity within the fetoplacental unit. ELife, 2022, 11, .	2.8	31
4	The placental exposome, placental epigenetic adaptations and lifelong cardio-metabolic health. Molecular Aspects of Medicine, 2022, 87, 101095.	2.7	11
5	Microvillous tip vesicles may be an origin of placental extracellular vesicles. Placenta, 2022, 123, 24-30.	0.7	4
6	Maternal and Fetal Genetic Variation in Vitamin D Metabolism and Umbilical Cord Blood 25-Hydroxyvitamin D. Journal of Clinical Endocrinology and Metabolism, 2022, 107, e3403-e3410.	1.8	6
7	ExÂvivo dual perfusion of an isolated human placenta cotyledon: Towards protocol standardization and improved inter-centre comparability. Placenta, 2022, 126, 83-89.	0.7	7
8	High placental inositol content associated with suppressed pro-adipogenic effects of maternal glycaemia in offspring: the GUSTO cohort. International Journal of Obesity, 2021, 45, 247-257.	1.6	13
9	Pericytes on placental capillaries in terminal villi preferentially cover endothelial junctions in regions furthest away from the trophoblast. Placenta, 2021, 104, 1-7.	0.7	14
10	Placental Inositol Reduced in Gestational Diabetes as Glucose Alters Inositol Transporters and IMPA1 Enzyme Expression. Journal of Clinical Endocrinology and Metabolism, 2021, 106, e875-e890.	1.8	16
11	Placental mobilization of free fatty acids contributes to altered materno-fetal transfer in obesity. International Journal of Obesity, 2021, 45, 1114-1123.	1.6	12
12	A massively multi-scale approach to characterizing tissue architecture by synchrotron micro-CT applied to the human placenta. Journal of the Royal Society Interface, 2021, 18, 20210140.	1.5	20
13	N-acetylcysteine, xCT and suppression of Maxi-chloride channel activity in human placenta. Placenta, 2021, 110, 46-55.	0.7	1
14	Placental 13C-DHA metabolism and relationship with maternal BMI, glycemia and birthweight. Molecular Medicine, 2021, 27, 84.	1.9	8
15	Placental polar lipid composition is associated with placental gene expression and neonatal body composition. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2021, 1866, 158971.	1.2	1
16	Endocytosis in the placenta: An undervalued mediator of placental transfer. Placenta, 2021, 113, 67-73.	0.7	14
17	â€˜Fetal sideâ€™ of the placenta: anatomical mis-annotation of carbon particle â€˜transferâ€™ across the human placenta. Nature Communications, 2021, 12, 7049.	5.8	14
18	Human placental villi contain stromal macrovesicles associated with networks of stellate cells. Journal of Anatomy, 2020, 236, 132-141.	0.9	18

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19	Investigating a suitable model for the study of vitamin D mediated regulation of human placental gene expression. Journal of Steroid Biochemistry and Molecular Biology, 2020, 199, 105576.	1.2	11
20	In vivo kinetic study of the materno-fetal fatty acid transfer in obese and normal weight pregnant women. Proceedings of the Nutrition Society, 2020, 79, .	0.4	0
21	Glibenclamide transfer across the perfused human placenta is determined by albumin binding not transporter activity. European Journal of Pharmaceutical Sciences, 2020, 152, 105436.	1.9	4
22	Multiscale three-dimensional imaging of the placenta. Placenta, 2020, 102, 55-60.	0.7	17
23	Placental perfusion and mathematical modelling. Placenta, 2020, 93, 43-48.	0.7	16
24	Serial blockâ€face scanning electron microscopy reveals novel intercellular connections in human term placental microvasculature. Journal of Anatomy, 2020, 237, 241-249.	0.9	21
25	Automated 3D Labelling of Fibroblasts and Endothelial Cells in SEM-Imaged Placenta using Deep Learning. , 2020, , .		4
26	In vivo kinetic study of maternoâ€fetal fatty acid transfer in obese and normal weight pregnant women. Journal of Physiology, 2019, 597, 4959-4973.	1.3	18
27	Maternal Obesity during Pregnancy Alters Daily Activity and Feeding Cycles, and Hypothalamic Clock Gene Expression in Adult Male Mouse Offspring. International Journal of Molecular Sciences, 2019, 20, 5408.	1.8	11
28	Metabolism of 13C-Labeled Fatty Acids in Term Human Placental Explants by Liquid Chromatographyâ€“Mass Spectrometry. Endocrinology, 2019, 160, 1394-1408.	1.4	11
29	Ursodeoxycholic acid inhibits uptake and vasoconstrictor effects of taurocholate in human placenta. FASEB Journal, 2019, 33, 8211-8220.	0.2	29
30	Myo-inositol alters 13C-labeled fatty acid metabolism in human placental explants. Journal of Endocrinology, 2019, 243, 73-84.	1.2	9
31	Human placental oxygenation in late gestation: experimental and theoretical approaches. Journal of Physiology, 2018, 596, 5523-5534.	1.3	44
32	Transfer and Metabolism of Cortisol by the Isolated Perfused Human Placenta. Journal of Clinical Endocrinology and Metabolism, 2018, 103, 640-648.	1.8	74
33	Placental fatty acid transfer. Current Opinion in Clinical Nutrition and Metabolic Care, 2018, 21, 78-82.	1.3	42
34	Estrone sulphate uptake by the microvillous membrane of placental syncytiotrophoblast is coupled to glutamate efflux. Biochemical and Biophysical Research Communications, 2018, 506, 237-242.	1.0	12
35	Development of the Human Placental Villus. , 2018, , .		6
36	New perspectives on placental fatty acid transfer. Prostaglandins Leukotrienes and Essential Fatty Acids, 2018, 138, 24-29.	1.0	32

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37	A systems perspective on placental amino acid transport. Journal of Physiology, 2018, 596, 5511-5522.	1.3	43
38	Relation of placental alkaline phosphatase expression in human term placenta with maternal and offspring fat mass. International Journal of Obesity, 2018, 42, 1202-1210.	1.6	11
39	Placental Lipid and Fatty Acid Transfer in Maternal Overnutrition. Annals of Nutrition and Metabolism, 2017, 70, 228-231.	1.0	47
40	The influence of placental metabolism on fatty acid transfer to the fetus. Journal of Lipid Research, 2017, 58, 443-454.	2.0	86
41	Modelling the effect of intervillous flow on solute transfer based on 3D imaging of the human placental microstructure. Placenta, 2017, 60, 21-27.	0.7	25
42	Serial blockâ€face scanning electron microscopy of erythrocytes protruding through the human placental syncytiotrophoblast. Journal of Anatomy, 2017, 231, 634-637.	0.9	9
43	Whole organ vascular casting and microCT examination of the human placental vascular tree reveals novel alterations associated with pregnancy disease. Scientific Reports, 2017, 7, 4144.	1.6	46
44	DNA methylation of amino acid transporter genes in the human placenta. Placenta, 2017, 60, 64-73.	0.7	20
45	The Placental Role in Developmental Programming. , 2017, , 1245-1258.		0
46	The Placenta and Developmental Origins of Health and Disease. , 2016, , 439-461.		4
47	Phenylalanine transfer across the isolated perfused human placenta: an experimental and modeling investigation. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 310, R828-R836.	0.9	17
48	Modelling nutrient transfer based on 3D imaging of the human placental microstructure. , 2016, 2016, 5953-5956.		1
49	Computational modelling of placental amino acid transfer as an integrated system. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 1451-1461.	1.4	27
50	Relation of FTO gene variants to fetal growth trajectories: Findings from the Southampton Women's survey. Placenta, 2016, 38, 100-106.	0.7	8
51	Glutamate cycling may drive organic anion transport on the basal membrane of human placental syncytiotrophoblast. Journal of Physiology, 2015, 593, 4549-4559.	1.3	16
52	Maternal Factors Are Associated with the Expression of Placental Genes Involved in Amino Acid Metabolism and Transport. PLoS ONE, 2015, 10, e0143653.	1.1	29
53	Placental amino acid transport may be regulated by maternal vitamin D and vitamin D-binding protein: results from the Southampton Women's Survey. British Journal of Nutrition, 2015, 113, 1903-1910.	1.2	40
54	Integration of computational modeling with membrane transport studies reveals new insights into amino acid exchange transport mechanisms. FASEB Journal, 2015, 29, 2583-2594.	0.2	31

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55	Computational modelling of fatty acid transport in the human placenta. , 2015, 2015, 8054-7.		7
56	Computational modelling of amino acid exchange and facilitated transport in placental membrane vesicles. Journal of Theoretical Biology, 2015, 365, 352-364.	0.8	27
57	Review: Modelling placental amino acid transferÂâ˜ From transporters to placental function. Placenta, 2013, 34, S46-S51.	0.7	34
58	What factors determine placental glucose transfer kinetics?. Placenta, 2013, 34, 953-958.	0.7	42
59	Partitioning of glutamine synthesised by the isolated perfused human placenta between the maternal and fetal circulations. Placenta, 2013, 34, 1223-1231.	0.7	29
60	The Placental Exposome: Placental Determinants of Fetal Adiposity and Postnatal Body Composition. Annals of Nutrition and Metabolism, 2013, 63, 208-215.	1.0	70
61	Immune Response Gene Profiles in the Term Placenta Depend Upon Maternal Muscle Mass. Reproductive Sciences, 2012, 19, 1041-1056.	1.1	19
62	Relationship between placental expression of the imprinted PHLDA2 gene, intrauterine skeletal growth and childhood bone mass. Bone, 2012, 50, 337-342.	1.4	22
63	Review: Placenta, evolution and lifelong health. Placenta, 2012, 33, S28-S32.	0.7	75
64	The placental role in fetal programming. , 2011, , 1039-1049.		0
65	Facilitated transporters mediate net efflux of amino acids to the fetus across the basal membrane of the placental syncytiotrophoblast. Journal of Physiology, 2011, 589, 987-997.	1.3	80
66	Umbilical venousâ€“arterial plasma composition differences suggest differential incorporation of fatty acids in NEFA and cholesteryl ester pools. British Journal of Nutrition, 2011, 106, 463-467.	1.2	14
67	IFPA Meeting 2009 Workshops Report. Placenta, 2010, 31, S4-S20.	0.7	12
68	Comparison of l-serine uptake by human placental microvillous membrane vesicles and placental villous fragments. Placenta, 2010, 31, 456-459.	0.7	6
69	Maternal muscle mass may influence system A activity in human placenta. Placenta, 2010, 31, 418-422.	0.7	31
70	Sex Differences in the mRNA Levels of Housekeeping Genes in Human Placenta. Placenta, 2010, 31, 556-557.	0.7	24
71	Computational modelling of amino acid transfer interactions in the placenta. Experimental Physiology, 2010, 95, 829-840.	0.9	32
72	Measurement of Housekeeping Genes in Human Placenta. Placenta, 2009, 30, 1002-1003.	0.7	45

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73	The Mechanisms and Regulation of Placental Amino Acid Transport to the Human Foetus. Journal of Neuroendocrinology, 2008, 20, 419-426.	1.2	127
74	Placental calcium transporter (PMCA3) gene expression predicts intrauterine bone mineral accrual. Bone, 2007, 40, 1203-1208.	1.4	71
75	Quantitated transcript haplotypes (QTH) ofAGTR1, reduced abundance of mRNA haplotypes containing 1166C (rs5186:A>C), and relevance to metabolic syndrome traits. Human Mutation, 2007, 28, 365-373.	1.1	18
76	Modification of fetal plasma amino acid composition by placental amino acid exchangersin vitro. Journal of Physiology, 2007, 582, 871-882.	1.3	41
77	l-Serine Uptake by Human Placental Microvillous Membrane Vesicles. Placenta, 2007, 28, 445-452.	0.7	35
78	The role of the placenta in the developmental origins of health and diseaseâ€"Implications for practice. Reviews in Gynaecological and Perinatal Practice, 2006, 6, 70-79.	0.3	6
79	Maternal dietary iron restriction modulates hepatic lipid metabolism in the fetuses. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2005, 288, R104-R111.	0.9	36
80	Low Serine Hydroxymethyltransferase Activity in the Human Placenta Has Important Implications for Fetal Glycine Supply. Journal of Clinical Endocrinology and Metabolism, 2005, 90, 1594-1598.	1.8	51
81	Early programming of weight gain in mice prevents the induction of obesity by a highly palatable diet. Clinical Science, 2004, 106, 141-145.	1.8	139
82	Placental Composition and Surface Area but not Vascularization are Altered by Maternal Protein Restriction in the Rat. Placenta, 2003, 24, 34-38.	0.7	49
83	Effect of maternal iron restriction during pregnancy on renal morphology in the adult rat offspring. British Journal of Nutrition, 2003, 90, 33-39.	1.2	132
84	Long-term programming of blood pressure by maternal dietary iron restriction in the rat. British Journal of Nutrition, 2002, 88, 283-290.	1.2	82
85	Effects of maternal iron restriction in the rat on blood pressure, glucose tolerance, and serum lipids in the 3-month-old offspring. Metabolism: Clinical and Experimental, 2001, 50, 562-567.	1.5	113
86	Effects of maternal iron restriction in the rat on hypoxia-induced gene expression and fetal metabolite levels. British Journal of Nutrition, 2001, 85, 193-201.	1.2	117
87	Effects of Maternal Iron Restriction on Placental Vascularization in the Rat. Placenta, 2001, 22, 534-539.	0.7	52
88	Effects of maternal captopril treatment on growth, blood glucose and plasma insulin in the fetal spontaneously hypertensive rat. Reproduction, Fertility and Development, 1999, 11, 403.	0.1	6
89	Fetal and placental glucose and amino acid uptake in the spontaneously hypertensive rat. Placenta, 1998, 19, 403-408.	0.7	6
90	Fetal rat lung epithelium has a functional growth hormone receptor coupled to tyrosine kinase activity and insulin-like growth factor binding protein-2 production. Journal of Molecular Endocrinology, 1998, 21, 73-84.	1.1	16

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91	Glucocorticoid activity in the fetal spontaneously hypertensive rat. Reproduction, Fertility and Development, 1998, 10, 341.	0.1	2
92	Perinatal Growth Disturbance in the Spontaneously Hypertensive Rat. Pediatric Research, 1997, 42, 758-764.	1.1	28
93	A computer program to aid in the preparation of reagent solutions. Computers in Biology and Medicine, 1990, 20, 103-104.	3.9	1