

# Brian J Cox

## List of Publications by Year in descending order

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42  
papers

2,086  
citations

304743

22  
h-index

254184

43  
g-index

48  
all docs

48  
docs citations

48  
times ranked

3358  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Platform for Generation of Chamber-Specific Cardiac Tissues and Disease Modeling. <i>Cell</i> , 2019, 176, 913-927.e18.	28.9	398
2	Unsupervised Placental Gene Expression Profiling Identifies Clinically Relevant Subclasses of Human Preeclampsia. <i>Hypertension</i> , 2016, 68, 137-147.	2.7	187
3	Increased atrial arrhythmia susceptibility induced by intense endurance exercise in mice requires TNF $\hat{\pm}$ . <i>Nature Communications</i> , 2015, 6, 6018.	12.8	148
4	A Predictive Metabolic Signature for the Transition From Gestational Diabetes Mellitus to Type 2 Diabetes. <i>Diabetes</i> , 2016, 65, 2529-2539.	0.6	113
5	Large Scale Aggregate Microarray Analysis Reveals Three Distinct Molecular Subclasses of Human Preeclampsia. <i>PLoS ONE</i> , 2015, 10, e0116508.	2.5	111
6	Elf5-centered transcription factor hub controls trophoblast stem cell self-renewal and differentiation through stoichiometry-sensitive shifts in target gene networks. <i>Genes and Development</i> , 2015, 29, 2435-2448.	5.9	93
7	The clinical heterogeneity of preeclampsia is related to both placental gene expression and placental histopathology. <i>American Journal of Obstetrics and Gynecology</i> , 2018, 219, 604.e1-604.e25.	1.3	76
8	Epigenetic regulation of placental gene expression in transcriptional subtypes of preeclampsia. <i>Clinical Epigenetics</i> , 2018, 10, 28.	4.1	63
9	Amino acid and lipid metabolism in post-gestational diabetes and progression to type 2 diabetes: A metabolic profiling study. <i>PLoS Medicine</i> , 2020, 17, e1003112.	8.4	63
10	Placental transcriptome in development and pathology: expression, function, and methods of analysis. <i>American Journal of Obstetrics and Gynecology</i> , 2015, 213, S138-S151.	1.3	58
11	Gestational Hypertension and Preeclampsia: Are They the Same Disease?. <i>Journal of Obstetrics and Gynaecology Canada</i> , 2014, 36, 642-647.	0.7	53
12	Mining DNA methylation alterations towards a classification of placental pathologies. <i>Human Molecular Genetics</i> , 2018, 27, 135-146.	2.9	50
13	The discovery of novel predictive biomarkers and early-stage pathophysiology for the transition from gestational diabetes to type 2 diabetes. <i>Diabetologia</i> , 2019, 62, 687-703.	6.3	48
14	Microvessels support engraftment and functionality of human islets and hESC-derived pancreatic progenitors in diabetes models. <i>Cell Stem Cell</i> , 2021, 28, 1936-1949.e8.	11.1	47
15	Rapid Elevation in CMPF May Act As a Tipping Point in Diabetes Development. <i>Cell Reports</i> , 2016, 14, 2889-2900.	6.4	44
16	Accurate ethnicity prediction from placental DNA methylation data. <i>Epigenetics and Chromatin</i> , 2019, 12, 51.	3.9	40
17	Placental transcriptional and histologic subtypes of normotensive fetal growth restriction are comparable to Preeclampsia. <i>American Journal of Obstetrics and Gynecology</i> , 2019, 220, 110.e1-110.e21.	1.3	40
18	Zika Virus Causes Persistent Infection in Porcine Conceptuses and may Impair Health in Offspring. <i>EBioMedicine</i> , 2017, 25, 73-86.	6.1	38

#	ARTICLE	IF	CITATIONS
19	Research Recommendations From the National Institutes of Health Workshop on Predicting, Preventing, and Treating Preeclampsia. Hypertension, 2019, 73, 757-766.	2.7	38
20	The core clock gene, Bmal1, and its downstream target, the SNARE regulatory protein secretagogin, are necessary for circadian secretion of glucagon-like peptide-1. Molecular Metabolism, 2020, 31, 124-137.	6.5	34
21	Circadian GLP-1 Secretion in Mice Is Dependent on the Intestinal Microbiome for Maintenance of Diurnal Metabolic Homeostasis. Diabetes, 2020, 69, 2589-2602.	0.6	33
22	Endoplasmic Reticulum Resident Protein 44 (ERp44) Deficiency in Mice and Zebrafish Leads to Cardiac Developmental and Functional Defects. Journal of the American Heart Association, 2014, 3, e001018.	3.7	26
23	TP63 basal cells are indispensable during endoderm differentiation into proximal airway cells on acellular lung scaffolds. Npj Regenerative Medicine, 2021, 6, 12.	5.2	25
24	Diminished Sphingolipid Metabolism, a Hallmark of Future Type 2 Diabetes Pathogenesis, Is Linked to Pancreatic Î² Cell Dysfunction. IScience, 2020, 23, 101566.	4.1	24
25	Gene markers of normal villous maturation and their expression in placentas with maturational pathology. Placenta, 2017, 58, 52-59.	1.5	22
26	Unbiased data analytic strategies to improve biomarker discovery in precision medicine. Drug Discovery Today, 2019, 24, 1735-1748.	6.4	22
27	Associations between imprinted gene expression in the placenta, human fetal growth and preeclampsia. Biology Letters, 2017, 13, 20170643.	2.3	21
28	Subclinical in utero Zika virus infection is associated with interferon alpha sequelae and sex-specific molecular brain pathology in asymptomatic porcine offspring. PLoS Pathogens, 2019, 15, e1008038.	4.7	18
29	Both "canonical" and "immunological" preeclampsia subtypes demonstrate changes in placental immune cell composition. Placenta, 2019, 83, 53-56.	1.5	17
30	Overexpression of Trophoblast Stem Cell-Enriched MicroRNAs Promotes Trophoblast Fate in Embryonic Stem Cells. Cell Reports, 2017, 19, 1101-1109.	6.4	16
31	Functional Enterospheres Derived In Vitro from Human Pluripotent Stem Cells. Stem Cell Reports, 2017, 9, 897-912.	4.8	16
32	3-(4-carboxy-4-methyl-5-propyl-2-furanpropanoic acid (CMPF) prevents high fat diet-induced insulin resistance via maintenance of hepatic lipid homeostasis. Diabetes, Obesity and Metabolism, 2019, 21, 61-72.	4.4	13
33	Cellular systems biology identifies dynamic trophoblast populations in early human placentas. Placenta, 2019, 76, 10-18.	1.5	13
34	Functional Evaluation of STOX1 (STORKHEAD-BOX PROTEIN 1) in Placentation, Preeclampsia, and Preterm Birth. Hypertension, 2021, 77, 475-490.	2.7	12
35	The epigenetic modifier Fam208a is required to maintain epiblast cell fitness. Scientific Reports, 2017, 7, 9322.	3.3	8
36	Cellular analysis of trophoblast and placenta. Placenta, 2017, 59, S2-S7.	1.5	7

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37	Recapitulating kidney development in vitro by priming and differentiating mouse embryonic stem cells in monolayers. <i>Npj Regenerative Medicine</i> , 2020, 5, 7.	5.2	7
38	Fibrinogen-Like Protein 2-Associated Transcriptional and Histopathological Features of Immunological Preeclampsia. <i>Hypertension</i> , 2020, 76, 910-921.	2.7	6
39	Bioinformatic Approach to the Genetics of Preeclampsia. <i>Obstetrics and Gynecology</i> , 2014, 124, 633.	2.4	5
40	Human placental gene sets improve analysis of placental pathologies and link trophoblast and cancer invasion genes. <i>Placenta</i> , 2021, 112, 9-15.	1.5	5
41	Recurrent Placental Transcriptional Profile With a Different Histological and Clinical Presentation: A Case Report. <i>Pediatric and Developmental Pathology</i> , 2019, 22, 584-589.	1.0	4
42	Computational analysis identified accelerated senescence as a significant contribution to preeclampsia pathophysiology. <i>Placenta</i> , 2022, 121, 70-78.	1.5	2