

# Laura A Cox

## List of Publications by Citations

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123  
papers

2,715  
citations

30  
h-index

47  
g-index

140  
ext. papers

3,305  
ext. citations

4.4  
avg, IF

5.08  
L-index

#	Paper	IF	Citations
123	Integrated Omics: Tools, Advances, and Future Approaches. <i>Journal of Molecular Endocrinology</i> , <b>2018</b> ,	4.5	162
122	Recommended nomenclature for five mammalian carboxylesterase gene families: human, mouse, and rat genes and proteins. <i>Mammalian Genome</i> , <b>2010</b> , 21, 427-41	3.2	123
121	Vulnerability of the fetal primate brain to moderate reduction in maternal global nutrient availability. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 3011-6	11.5	119
120	The Need for Multi-Omics Biomarker Signatures in Precision Medicine. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	114
119	Cloning and functional studies of a novel gene aberrantly expressed in RB-deficient embryos. <i>Developmental Biology</i> , <b>1999</b> , 207, 62-75	3.1	107
118	Epigenetic modification of fetal baboon hepatic phosphoenolpyruvate carboxykinase following exposure to moderately reduced nutrient availability. <i>Journal of Physiology</i> , <b>2010</b> , 588, 1349-59	3.9	102
117	Baboons as a model to study genetics and epigenetics of human disease. <i>ILAR Journal</i> , <b>2013</b> , 54, 106-21	1.7	88
116	The population genomics of rhesus macaques ( <i>Macaca mulatta</i> ) based on whole-genome sequences. <i>Genome Research</i> , <b>2016</b> , 26, 1651-1662	9.7	76
115	The comparative genomics and complex population history of baboons. <i>Science Advances</i> , <b>2019</b> , 5, eaau6947	6.43	69
114	Organ and gestational age effects of maternal nutrient restriction on global methylation in fetal baboons. <i>Journal of Medical Primatology</i> , <b>2009</b> , 38, 219-27	0.7	62
113	Identification and comparative analyses of myocardial miRNAs involved in the fetal response to maternal obesity. <i>Physiological Genomics</i> , <b>2013</b> , 45, 889-900	3.6	56
112	A second-generation genetic linkage map of the baboon ( <i>Papio hamadryas</i> ) genome. <i>Genomics</i> , <b>2006</b> , 88, 274-81	4.3	56
111	Genomewide ancestry and divergence patterns from low-coverage sequencing data reveal a complex history of admixture in wild baboons. <i>Molecular Ecology</i> , <b>2016</b> , 25, 3469-83	5.7	54
110	Effects of maternal global nutrient restriction on fetal baboon hepatic insulin-like growth factor system genes and gene products. <i>Endocrinology</i> , <b>2009</b> , 150, 4634-42	4.8	52
109	Non-human primate fetal kidney transcriptome analysis indicates mammalian target of rapamycin (mTOR) is a central nutrient-responsive pathway. <i>Journal of Physiology</i> , <b>2007</b> , 579, 643-56	3.9	48
108	Maternal obesity has sex-dependent effects on insulin, glucose and lipid metabolism and the liver transcriptome in young adult rat offspring. <i>Journal of Physiology</i> , <b>2018</b> , 596, 4611-4628	3.9	44
107	The baboon apolipoprotein E gene: structure, expression, and linkage with the gene for apolipoprotein C-1. <i>Genomics</i> , <b>1988</b> , 2, 315-23	4.3	41

106	Cortical Folding of the Primate Brain: An Interdisciplinary Examination of the Genetic Architecture, Modularity, and Evolvability of a Significant Neurological Trait in Pedigreed Baboons (Genus <i>Papio</i> ). <i>Genetics</i> , <b>2015</b> , 200, 651-65	4	40
105	Gene expression profile differences in left and right liver lobes from mid-gestation fetal baboons: a cautionary tale. <i>Journal of Physiology</i> , <b>2006</b> , 572, 59-66	3.9	38
104	Posttranscriptional regulation of chimeric human transferrin genes by iron. <i>Biochemistry</i> , <b>1993</b> , 32, 4738-45	3.5	38
103	Tumor suppressor genes and their roles in breast cancer. <i>Breast Cancer Research and Treatment</i> , <b>1994</b> , 32, 19-38	4.4	38
102	Sodium-lithium countertransport activity is linked to chromosome 5 in baboons. <i>Hypertension</i> , <b>2001</b> , 37, 398-402	8.5	36
101	Primate fetal hepatic responses to maternal obesity: epigenetic signalling pathways and lipid accumulation. <i>Journal of Physiology</i> , <b>2018</b> , 596, 5823-5837	3.9	35
100	Localization of multiple pleiotropic genes for lipoprotein metabolism in baboons. <i>Journal of Lipid Research</i> , <b>2009</b> , 50, 1420-8	6.3	35
99	Nonhuman Primates and Translational Research-Cardiovascular Disease. <i>ILAR Journal</i> , <b>2017</b> , 58, 235-250	1.7	34
98	Expression of the placental transcriptome in maternal nutrient reduction in baboons is dependent on fetal sex. <i>Journal of Nutrition</i> , <b>2013</b> , 143, 1698-708	4.1	33
97	The baboon gene for apolipoprotein A-I: characterization of a cDNA clone and identification of DNA polymorphisms for genetic studies of cholesterol metabolism. <i>Gene</i> , <b>1988</b> , 74, 483-90	3.8	31
96	Differential microRNA response to a high-cholesterol, high-fat diet in livers of low and high LDL-C baboons. <i>BMC Genomics</i> , <b>2012</b> , 13, 320	4.5	30
95	Identification of a QTL for adipocyte volume and of shared genetic effects with aspartate aminotransferase. <i>Biochemical Genetics</i> , <b>2010</b> , 48, 538-47	2.4	30
94	QTL with pleiotropic effects on serum levels of bone-specific alkaline phosphatase and osteocalcin maps to the baboon ortholog of human chromosome 6p23-21.3. <i>Journal of Bone and Mineral Research</i> , <b>2006</b> , 21, 1888-96	6.3	30
93	Mechanistic Target of Rapamycin Complex 1 Promotes the Expression of Genes Encoding Electron Transport Chain Proteins and Stimulates Oxidative Phosphorylation in Primary Human Trophoblast Cells by Regulating Mitochondrial Biogenesis. <i>Scientific Reports</i> , <b>2019</b> , 9, 246	4.9	28
92	Genomics and proteomics of vertebrate cholesterol ester lipase (LIPA) and cholesterol 25-hydroxylase (CH25H). <i>3 Biotech</i> , <b>2011</b> , 1, 99-109	2.8	28
91	Regional expression of HOXA4 along the aorta and its potential role in human abdominal aortic aneurysms. <i>BMC Physiology</i> , <b>2011</b> , 11, 9	0	28
90	Localization of genes that control LDL size fractions in baboons. <i>Atherosclerosis</i> , <b>2003</b> , 168, 15-22	3.1	28
89	Comparative Structures and Evolution of Vertebrate Carboxyl Ester Lipase (CEL) Genes and Proteins with a Major Role in Reverse Cholesterol Transport. <i>Cholesterol</i> , <b>2011</b> , 2011, 781643		25

88	Locus controlling LDL cholesterol response to dietary cholesterol is on baboon homologue of human chromosome 6. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2002</b> , 22, 1720-5	9.4	25
87	Effects of moderate global maternal nutrient reduction on fetal baboon renal mitochondrial gene expression at 0.9 gestation. <i>American Journal of Physiology - Renal Physiology</i> , <b>2015</b> , 308, F1217-28	4.3	24
86	Mammalian carboxylesterase 5: comparative biochemistry and genomics. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , <b>2008</b> , 3, 195-204	2	23
85	A genomewide linkage scan for quantitative trait loci influencing the craniofacial complex in baboons ( <i>Papio hamadryas</i> spp.). <i>Genetics</i> , <b>2008</b> , 180, 619-28	4	23
84	A comparison of humans and baboons suggests germline mutation rates do not track cell divisions. <i>PLoS Biology</i> , <b>2020</b> , 18, e3000838	9.7	23
83	High-resolution gas chromatography/mass spectrometry metabolomics of non-human primate serum. <i>Rapid Communications in Mass Spectrometry</i> , <b>2018</b> , 32, 1497-1506	2.2	21
82	Molecular pathways mediating differential responses to lipopolysaccharide between human and baboon arterial endothelial cells. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2010</b> , 37, 178-84	3	21
81	Mammalian carboxylesterase 3: comparative genomics and proteomics. <i>Genetica</i> , <b>2010</b> , 138, 695-708	1.5	19
80	Determinants of variation in serum paraoxonase enzyme activity in baboons. <i>Journal of Lipid Research</i> , <b>2005</b> , 46, 1450-6	6.3	19
79	Identification of candidate genes regulating HDL cholesterol using a chromosomal region expression array. <i>Genome Research</i> , <b>2002</b> , 12, 1693-702	9.7	19
78	Dyslipidemic Diet-Induced Monocyte "Priming" and Dysfunction in Non-Human Primates Is Triggered by Elevated Plasma Cholesterol and Accompanied by Altered Histone Acetylation. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 958	8.4	18
77	Genetic influences on response to novel objects and dimensions of personality in <i>Papio</i> baboons. <i>Behavior Genetics</i> , <b>2015</b> , 45, 215-27	3.2	18
76	Comparative studies of mammalian acid lipases: Evidence for a new gene family in mouse and rat ( <i>Lipo</i> ). <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , <b>2010</b> , 5, 217-26	2	18
75	Effect of moderate, 30 percent global maternal nutrient reduction on fetal and postnatal baboon phenotype. <i>Journal of Medical Primatology</i> , <b>2017</b> , 46, 293-303	0.7	17
74	A major gene influences variation in large HDL particles and their response to diet in baboons. <i>Atherosclerosis</i> , <b>2002</b> , 163, 241-8	3.1	17
73	Identification of promoter variants in baboon endothelial lipase that regulate high-density lipoprotein cholesterol levels. <i>Circulation</i> , <b>2007</b> , 116, 1185-95	16.7	15
72	Molecular basis of an apolipoprotein[a] null allele: a splice site mutation is associated with deletion of a single exon. <i>Journal of Lipid Research</i> , <b>1998</b> , 39, 1319-1326	6.3	15
71	Mammalian Glutamyl Aminopeptidase Genes (ENPEP) and Proteins: Comparative Studies of a Major Contributor to Arterial Hypertension. <i>Journal of Data Mining in Genomics &amp; Proteomics</i> , <b>2017</b> , 8,		14

70	Sex-dimorphic acceleration of pericardial, subcutaneous, and plasma lipid increase in offspring of poorly nourished baboons. <i>International Journal of Obesity</i> , <b>2018</b> , 42, 1092-1096	5.5	14
69	Diet-induced early-stage atherosclerosis in baboons: Lipoproteins, atherogenesis, and arterial compliance. <i>Journal of Medical Primatology</i> , <b>2018</b> , 47, 3-17	0.7	13
68	A genome resource to address mechanisms of developmental programming: determination of the fetal sheep heart transcriptome. <i>Journal of Physiology</i> , <b>2012</b> , 590, 2873-84	3.9	13
67	Comparative studies of vertebrate lipoprotein lipase: a key enzyme of very low density lipoprotein metabolism. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , <b>2011</b> , 6, 224-34	2	13
66	A new class of mammalian carboxylesterase CES6. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , <b>2009</b> , 4, 209-17	2	13
65	Optimized GC-MS metabolomics for the analysis of kidney tissue metabolites. <i>Metabolomics</i> , <b>2018</b> , 14, 75	4.7	13
64	Analysis of 100 high-coverage genomes from a pedigreed captive baboon colony. <i>Genome Research</i> , <b>2019</b> , 29, 848-856	9.7	12
63	Analysis of serum changes in response to a high fat high cholesterol diet challenge reveals metabolic biomarkers of atherosclerosis. <i>PLoS ONE</i> , <b>2019</b> , 14, e0214487	3.7	12
62	Proteomics in non-human primates: utilizing RNA-Seq data to improve protein identification by mass spectrometry in vervet monkeys. <i>BMC Genomics</i> , <b>2017</b> , 18, 877	4.5	12
61	Baboon carboxylesterases 1 and 2: sequences, structures and phylogenetic relationships with human and other primate carboxylesterases. <i>Journal of Medical Primatology</i> , <b>2009</b> , 38, 27-38	0.7	12
60	Opossum carboxylesterases: sequences, phylogeny and evidence for CES gene duplication events predating the marsupial-eutherian common ancestor. <i>BMC Evolutionary Biology</i> , <b>2008</b> , 8, 54	3	12
59	Nutrient-restricted fetus and the cardio-renal connection in hypertensive offspring. <i>Expert Review of Cardiovascular Therapy</i> , <b>2006</b> , 4, 227-37	2.5	12
58	Identification of candidate genes encoding an LDL-C QTL in baboons. <i>Journal of Lipid Research</i> , <b>2013</b> , 54, 1776-85	6.3	11
57	Vertebrate hepatic lipase genes and proteins: a review supported by bioinformatic studies. <i>Open Access Bioinformatics</i> , <b>2011</b> , 2011, 85-95		11
56	Genotype-by-diet effects on co-variation in Lp-PLA2 activity and LDL-cholesterol concentration in baboons fed an atherogenic diet. <i>Journal of Lipid Research</i> , <b>2008</b> , 49, 1295-302	6.3	11
55	Quantitative genetic analysis of glucose transporter 4 mRNA levels in baboon adipose. <i>Obesity</i> , <b>2004</b> , 12, 1652-7		11
54	Maintenance and mobility of hemoglobin and water within the human erythrocyte after detergent disruption of the plasma membrane. <i>Journal of Cellular Physiology</i> , <b>1991</b> , 149, 365-74	7	11
53	Vertebrate endothelial lipase: comparative studies of an ancient gene and protein in vertebrate evolution. <i>Genetica</i> , <b>2011</b> , 139, 291-304	1.5	10

52	Prostaglandin E2 receptor expression in fetal baboon lung at 0.7 gestation after betamethasone exposure. <i>Pediatric Research</i> , <b>2007</b> , 61, 421-6	3.2	10
51	The baboon kidney transcriptome: analysis of transcript sequence, splice variants, and abundance. <i>PLoS ONE</i> , <b>2013</b> , 8, e57563	3.7	9
50	A custom rat and baboon hypertension gene array to compare experimental models. <i>Experimental Biology and Medicine</i> , <b>2012</b> , 237, 99-110	3.7	9
49	Moderate global reduction in maternal nutrition has differential stage of gestation specific effects on $\beta$ 1- and $\beta$ 2-adrenergic receptors in the fetal baboon liver. <i>Reproductive Sciences</i> , <b>2011</b> , 18, 398-405	3	8
48	Integration of genetic and genomic methods for identification of genes and gene variants encoding QTLs in the nonhuman primate. <i>Methods</i> , <b>2009</b> , 49, 63-9	4.6	8
47	Identification of baboon microRNAs expressed in liver and lymphocytes. <i>Journal of Biomedical Science</i> , <b>2010</b> , 17, 54	13.3	8
46	Accurate assembly of the olive baboon ( <i>Papio anubis</i> ) genome using long-read and Hi-C data. <i>GigaScience</i> , <b>2020</b> , 9,	7.6	8
45	mTORC1 Transcriptional Regulation of Ribosome Subunits, Protein Synthesis, and Molecular Transport in Primary Human Trophoblast Cells. <i>Frontiers in Cell and Developmental Biology</i> , <b>2020</b> , 8, 583801	5.7	8
44	Repertoire of endothelial progenitor cells mobilized by femoral artery ligation: a nonhuman primate study. <i>Journal of Cellular and Molecular Medicine</i> , <b>2012</b> , 16, 2060-73	5.6	7
43	Quantitative loci regulating plasma levels of gamma glutamyl transferase and albumin and their genetic correlations with cardiovascular risk factors. <i>Experimental Biology and Medicine</i> , <b>2009</b> , 234, vi, 1519-24	3.7	7
42	Characterization of ghrelin in pedigreed baboons: evidence for heritability and pleiotropy. <i>Obesity</i> , <b>2008</b> , 16, 804-10	8	7
41	Quantitative trait loci for peripheral blood cell counts: a study in baboons. <i>Mammalian Genome</i> , <b>2007</b> , 18, 361-72	3.2	7
40	Identification of coordinately regulated microRNA-gene networks that differ in baboons discordant for LDL-cholesterol. <i>PLoS ONE</i> , <b>2019</b> , 14, e0213494	3.7	6
39	Two loci affect angiotensin I-converting enzyme activity in baboons. <i>Hypertension</i> , <b>2003</b> , 41, 854-9	8.5	6
38	Expression of chimeric human transferrin-chloramphenicol acetyltransferase genes in liver and brain of transgenic mice during development. <i>Developmental Biology</i> , <b>1993</b> , 155, 452-8	3.1	6
37	PvuII RFLP for the lecithin-cholesterol acyltransferase gene (LCAT) in baboons. <i>Nucleic Acids Research</i> , <b>1990</b> , 18, 384	20.1	6
36	Nonhuman primate breath volatile organic compounds associate with developmental programming and cardio-metabolic status. <i>Journal of Breath Research</i> , <b>2018</b> , 12, 036016	3.1	5
35	Diverse captive non-human primates with phytanic acid-deficient diets rich in plant products have substantial phytanic acid levels in their red blood cells. <i>Lipids in Health and Disease</i> , <b>2013</b> , 12, 10	4.4	5

34	Association of SLC34A2 variation and sodium-lithium countertransport activity in humans and baboons. <i>American Journal of Hypertension</i> , <b>2009</b> , 22, 288-93	2.3	5
33	Evolution of Vertebrate Solute Carrier Family 9B Genes and Proteins (): Evidence for a Marsupial Origin for Testis Specific from an Ancestral Vertebrate Gene. <i>Journal of Phylogenetics &amp; Evolutionary Biology</i> , <b>2016</b> , 4,		5
32	Sex Differences in MicroRNA Expression and Cardiometabolic Risk Factors in Hispanic Adolescents with Obesity. <i>Journal of Pediatrics</i> , <b>2021</b> , 235, 138-143.e5	3.6	5
31	Effect of maternal obesity on fetal and postnatal baboon ( <i>Papio</i> species) early life phenotype. <i>Journal of Medical Primatology</i> , <b>2019</b> , 48, 90-98	0.7	4
30	Animal Models of Diet-induced Hypercholesterolemia <b>2015</b> ,		4
29	Bovine Carboxylesterases: Evidence for Two CES1 and Five Families of CES Genes on Chromosome 18. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , <b>2009</b> , 4, 11-20	2	4
28	Horse carboxylesterases: evidence for six CES1 and four families of CES genes on chromosome 3. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , <b>2009</b> , 4, 54-65	2	4
27	Sex-dependent vulnerability of fetal nonhuman primate cardiac mitochondria to moderate maternal nutrient reduction. <i>Clinical Science</i> , <b>2021</b> , 135, 1103-1126	6.5	4
26	The Development and Status of the Baboon Genetic Linkage Map <b>2009</b> , 1-19		3
25	Comparative structures and evolution of vertebrate lipase H (LIPH) genes and proteins: a relative of the phospholipase A1 gene families. <i>3 Biotech</i> , <b>2012</b> , 2, 263-275	2.8	2
24	The importance of altered gene promoter methylation and transcription factor binding in developmental programming of central appetitive drive. <i>Journal of Physiology</i> , <b>2009</b> , 587, 4763-4	3.9	2
23	LRP5 sequence and polymorphisms in the baboon. <i>Journal of Medical Primatology</i> , <b>2009</b> , 38, 97-106	0.7	2
22	Integrated omics analysis reveals sirtuin signaling is central to hepatic response to a high fructose diet. <i>BMC Genomics</i> , <b>2021</b> , 22, 870	4.5	2
21	Histological variation of early stage atherosclerotic lesions in baboons after prolonged challenge with high-cholesterol, high-fat diet. <i>Journal of Medical Primatology</i> , <b>2020</b> , 49, 3-9	0.7	2
20	Diet-induced leukocyte telomere shortening in a baboon model for early stage atherosclerosis. <i>Scientific Reports</i> , <b>2019</b> , 9, 19001	4.9	2
19	Primate response to angiotensin infusion and high sodium intake differ by sodium lithium countertransport phenotype. <i>Journal of the American Society of Hypertension</i> , <b>2017</b> , 11, 178-184		1
18	The non-human primate kidney transcriptome in fetal development. <i>Journal of Medical Primatology</i> , <b>2018</b> , 47, 157-171	0.7	1
17	Importance of genetic differences in developmental programming: gene by environment interactions in models of maternal dietary restriction. <i>Journal of Physiology</i> , <b>2007</b> , 581, 421-2	3.9	1

16	Mechanistic Target of Rapamycin Complex 2 Regulation of the Primary Human Trophoblast Cell Transcriptome. <i>Frontiers in Cell and Developmental Biology</i> , <b>2021</b> , 9, 670980	5.7	1
15	Breath biomarkers of insulin resistance in pre-diabetic Hispanic adolescents with obesity.. <i>Scientific Reports</i> , <b>2022</b> , 12, 339	4.9	1
14	Accurate assembly of the olive baboon ( <i>Papio anubis</i> ) genome using long-read and Hi-C data		1
13	Efficiency of whole-exome sequencing in old world and new world primates using human capture reagents. <i>Journal of Medical Primatology</i> , <b>2021</b> , 50, 176-181	0.7	1
12	Skeletal muscle extracellular matrix remodeling with worsening glycemic control in nonhuman primates. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2021</b> , 320, R226-R235	3.2	1
11	Integrated Omics Analysis Reveals Sirtuin Signaling is Central to Hepatic Response to a High Fructose Diet		1
10	Optimization of Imputation Strategies for High-Resolution Gas Chromatography/Mass Spectrometry (HR GC/MS) Metabolomics Data. <i>Metabolites</i> , <b>2022</b> , 12, 429	5.6	1
9	The FIC1 gene: structure and polymorphisms in baboon. <i>Journal of Medical Primatology</i> , <b>2002</b> , 31, 17-28	0.7	
8	Sexual dimorphism in liver cell cycle and senescence signalling pathways in young and old rats. <i>Journal of Physiology</i> , <b>2021</b> , 599, 4309-4320	3.9	
7	Molecular Approaches for the Validation of the Baboon as a Nonhuman Primate Model for the Study of Zika Virus Infection.. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2022</b> , 12, 880860	5.9	
6	A comparison of humans and baboons suggests germline mutation rates do not track cell divisions <b>2020</b> , 18, e3000838		
5	A comparison of humans and baboons suggests germline mutation rates do not track cell divisions <b>2020</b> , 18, e3000838		
4	A comparison of humans and baboons suggests germline mutation rates do not track cell divisions <b>2020</b> , 18, e3000838		
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