

Charlotte L Phillips

List of Publications by Citations

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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.

58

papers

1,768

citations

24

h-index

41

g-index

62

ext. papers

1,998

ext. citations

4.8

avg, IF

4.1

L-index

#	Paper	IF	Citations
58	Effects of ascorbic acid on proliferation and collagen synthesis in relation to the donor age of human dermal fibroblasts. <i>Journal of Investigative Dermatology</i> , 1994 , 103, 228-32	4.3	135
57	Structural changes in human type I collagen fibrils investigated by force spectroscopy. <i>Experimental Cell Research</i> , 2004 , 299, 335-42	4.2	125
56	Murine model of the Ehlers-Danlos syndrome. col5a1 haploinsufficiency disrupts collagen fibril assembly at multiple stages. <i>Journal of Biological Chemistry</i> , 2006 , 281, 12888-95	5.4	120
55	Transplanted bone marrow mononuclear cells and MSCs impart clinical benefit to children with osteogenesis imperfecta through different mechanisms. <i>Blood</i> , 2012 , 120, 1933-41	2.2	105
54	Molecular mechanism of type I collagen homotrimer resistance to mammalian collagenases. <i>Journal of Biological Chemistry</i> , 2010 , 285, 22276-81	5.4	87
53	Variable bone fragility associated with an Amish COL1A2 variant and a knock-in mouse model. <i>Journal of Bone and Mineral Research</i> , 2010 , 25, 247-61	6.3	74
52	Ascorbic acid and transforming growth factor-beta 1 increase collagen biosynthesis via different mechanisms: coordinate regulation of pro alpha 1(I) and Pro alpha 1(III) collagens. <i>Archives of Biochemistry and Biophysics</i> , 1992 , 295, 397-403	4.1	73
51	Carcinomas contain a matrix metalloproteinase-resistant isoform of type I collagen exerting selective support to invasion. <i>Cancer Research</i> , 2010 , 70, 4366-74	10.1	71
50	Oim mice exhibit altered femur and incisor mineral composition and decreased bone mineral density. <i>Bone</i> , 2000 , 27, 219-26	4.7	66
49	17 Beta-estradiol and progesterone inhibit transcription of the genes encoding the subunits of ovine follicle-stimulating hormone. <i>Molecular Endocrinology</i> , 1988 , 2, 641-9		63
48	Alpha 2(I) collagen deficient oim mice have altered biomechanical integrity, collagen content, and collagen crosslinking of their thoracic aorta. <i>Matrix Biology</i> , 2005 , 24, 451-8	11.4	52
47	Osteoblast Malfunction Caused by Cell Stress Response to Procollagen Misfolding in α 2(I)-G610C Mouse Model of Osteogenesis Imperfecta. <i>Journal of Bone and Mineral Research</i> , 2016 , 31, 1608-1616	6.3	51
46	The role of type I collagen in aortic wall strength with a homotrimeric. <i>Journal of Vascular Surgery</i> , 2001 , 33, 1263-70	3.5	46
45	Gender-dependence of bone structure and properties in adult osteogenesis imperfecta murine model. <i>Annals of Biomedical Engineering</i> , 2013 , 41, 1139-49	4.7	44
44	Hindlimb skeletal muscle function in myostatin-deficient mice. <i>Muscle and Nerve</i> , 2011 , 43, 49-57	3.4	44
43	Skeletal muscle weakness in osteogenesis imperfecta mice. <i>Matrix Biology</i> , 2010 , 29, 638-44	11.4	43
42	The effects of different cysteine for glycine substitutions within alpha 2(I) chains. Evidence of distinct structural domains within the type I collagen triple helix. <i>Journal of Biological Chemistry</i> , 1991 , 266, 2590-2594	5.4	41

41	The effects of different cysteine for glycine substitutions within alpha 2(I) chains. Evidence of distinct structural domains within the type I collagen triple helix. <i>Journal of Biological Chemistry</i> , 1991 , 266, 2590-4	5.4	37
40	Role of genetic background in determining phenotypic severity throughout postnatal development and at peak bone mass in Col1a2 deficient mice (oim). <i>Bone</i> , 2008 , 42, 681-94	4.7	34
39	Live Imaging of Type I Collagen Assembly Dynamics in Osteoblasts Stably Expressing GFP and mCherry-Tagged Collagen Constructs. <i>Journal of Bone and Mineral Research</i> , 2018 , 33, 1166-1182	6.3	30
38	Developmental exposure to xenoestrogens at low doses alters femur length and tensile strength in adult mice. <i>Biology of Reproduction</i> , 2012 , 86, 69	3.9	30
37	Transfer of proalpha2(I) cDNA into cells of a murine model of human Osteogenesis Imperfecta restores synthesis of type I collagen comprised of alpha1(I) and alpha2(I) heterotrimers in vitro and in vivo. <i>Journal of Cellular Biochemistry</i> , 2001 , 83, 84-91	4.7	29
36	A substitution at a non-glycine position in the triple-helical domain of pro alpha 2(I) collagen chains present in an individual with a variant of the Marfan syndrome. <i>Journal of Clinical Investigation</i> , 1990 , 86, 1723-8	15.9	29
35	Transgenic over-expression of plasminogen activator inhibitor-1 results in age-dependent and gender-specific increases in bone strength and mineralization. <i>Bone</i> , 2007 , 41, 995-1004	4.7	25
34	Effect of food restriction and leptin supplementation on fetal programming in mice. <i>Endocrinology</i> , 2012 , 153, 4556-67	4.8	23
33	Novel collagen glomerulopathy in a homotrimeric type I collagen mouse (oim). <i>Kidney International</i> , 2002 , 62, 383-91	9.9	23
32	Myostatin deficiency partially rescues the bone phenotype of osteogenesis imperfecta model mice. <i>Osteoporosis International</i> , 2016 , 27, 161-70	5.3	21
31	The gene encoding ovine follicle-stimulating hormone beta: isolation, characterization, and comparison to a related ovine genomic sequence. <i>DNA and Cell Biology</i> , 1991 , 10, 593-601	3.6	21
30	Sequence analysis of a full-length cDNA for the murine pro alpha 2(I) collagen chain: comparison of the derived primary structure with human pro alpha 2(I) collagen. <i>Genomics</i> , 1992 , 13, 1345-6	4.3	21
29	Homozygosity and Heterozygosity for Null Col5a2 Alleles Produce Embryonic Lethality and a Novel Classic Ehlers-Danlos Syndrome-Related Phenotype. <i>American Journal of Pathology</i> , 2015 , 185, 2000-11	5.8	19
28	Skeletal Response to Soluble Activin Receptor Type IIB in Mouse Models of Osteogenesis Imperfecta. <i>Journal of Bone and Mineral Research</i> , 2018 , 33, 1760-1772	6.3	18
27	Soluble activin receptor type IIB decoy receptor differentially impacts murine osteogenesis imperfecta muscle function. <i>Muscle and Nerve</i> , 2018 , 57, 294-304	3.4	16
26	Hindlimb Skeletal Muscle Function and Skeletal Quality and Strength in +/G610C Mice With and Without Weight-Bearing Exercise. <i>Journal of Bone and Mineral Research</i> , 2015 , 30, 1874-86	6.3	15
25	Construction of a full-length murine pro alpha 2(I) collagen cDNA by the polymerase chain reaction. <i>Journal of Investigative Dermatology</i> , 1991 , 97, 980-4	4.3	13
24	Compromised Exercise Capacity and Mitochondrial Dysfunction in the Osteogenesis Imperfecta Murine (oim) Mouse Model. <i>Journal of Bone and Mineral Research</i> , 2019 , 34, 1646-1659	6.3	11

23	Type I collagen glomerulopathy: postnatal collagen deposition follows glomerular maturation. <i>Kidney International</i> , 2007 , 71, 985-93	9.9	11
22	Carrier detection and rapid newborn diagnostic test for the common Y393N maple syrup urine disease allele by PCR-RFLP: culturally permissible testing in the Mennonite community. <i>Journal of Inherited Metabolic Disease</i> , 2001 , 24, 393-403	5.4	10
21	Immunological similarity of milk sulfhydryl oxidase and kidney glutathione oxidase. <i>Archives of Biochemistry and Biophysics</i> , 1984 , 228, 681-5	4.1	10
20	Osteogenesis Imperfecta Type IV. <i>Annals of the New York Academy of Sciences</i> , 1990 , 580, 546-548	6.5	9
19	Osteogenesis Imperfecta: Muscle-Bone Interactions when Bi-directionally Compromised. <i>Current Osteoporosis Reports</i> , 2018 , 16, 478-489	5.4	8
18	Deficient degradation of homotrimeric type I collagen, $\alpha 1(I)$ 3 glomerulopathy in oim mice. <i>Molecular Genetics and Metabolism</i> , 2011 , 104, 373-82	3.7	8
17	Evidence of common ancestry for the maple syrup urine disease (MSUD) Y438N allele in non-Mennonite MSUD patients. <i>Molecular Genetics and Metabolism</i> , 2002 , 75, 79-90	3.7	8
16	DNA carrier testing and newborn screening for maple syrup urine disease in Old Order Mennonite communities. <i>Genetic Testing and Molecular Biomarkers</i> , 2010 , 14, 205-8	1.6	7
15	Mutations in the COL1A2 gene of type I collagen that result in nonlethal forms of osteogenesis imperfecta. <i>American Journal of Medical Genetics Part A</i> , 1993 , 45, 228-32		7
14	Transforming growth factor- β /Smad3-independent epithelial-mesenchymal transition in type I collagen glomerulopathy. <i>International Journal of Nephrology and Renovascular Disease</i> , 2017 , 10, 251-259 ^{2,5}		6
13	Potential modifier role of the R618Q variant of pro α 2(I)collagen in type I collagen fibrillogenesis: in vitro assembly analysis. <i>Molecular Genetics and Metabolism</i> , 2004 , 82, 144-53	3.7	6
12	Decreasing maternal myostatin programs adult offspring bone strength in a mouse model of osteogenesis imperfecta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13522-13527	11.5	5
11	Characterization of the MPS I-H knock-in mouse reveals increased femoral biomechanical integrity with compromised material strength and altered bone geometry. <i>Molecular Genetics and Metabolism Reports</i> , 2015 , 5, 3-11	1.8	5
10	Multi-element analysis of bone from the osteogenesis imperfecta model (OIM) mouse using thermal and fast neutron activation analysis. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2008 , 276, 65-69	1.5	4
9	Impact of Genetic and Pharmacologic Inhibition of Myostatin in a Murine Model of Osteogenesis Imperfecta. <i>Journal of Bone and Mineral Research</i> , 2021 , 36, 739-756	6.3	3
8	DNA Sequence Analysis of Alpha 2(I) Collagen from an Individual with the Marfan Phenotype. <i>Annals of the New York Academy of Sciences</i> , 1990 , 580, 560-561	6.5	2
7	Deciphering Myostatin's Regulatory, Metabolic, and Developmental Influence in Skeletal Diseases. <i>Frontiers in Genetics</i> , 2021 , 12, 662908	4.5	2
6	Dietary fluoride restriction does not alter femoral biomechanical strength in col1a2-deficient (oim) mice with type I collagen glomerulopathy. <i>Journal of Nutrition</i> , 2010 , 140, 1752-6	4.1	1

- 5 Skeletal muscle specific mitochondrial dysfunction and altered energy metabolism in a murine model (oim/oim) of severe osteogenesis imperfecta. *Molecular Genetics and Metabolism*, **2021**, 132, 244-253 3.7 1
- 4 Animal Models of Osteogenesis Imperfecta **2014**, 197-207
- 3 Potential mitochondrial dysfunction in skeletal muscle of mouse models of Osteogenesis imperfecta.. *FASEB Journal*, **2018**, 32, 543.20 0.9
- 2 Effect of impact exercise on skeletal muscle and bone in OI model mice. *FASEB Journal*, **2009**, 23, LB170 0.9
- 1 Fecundity is impaired in a mouse model of osteogenesis imperfecta. *Molecular Reproduction and Development*, **2020**, 87, 927-929 2.6