Charlotte L Phillips

List of Publications by Year
in descending order

62 papers	2,176 citations	236612 25 h-index	233125 45 g-index
62 all docs	62 docs citations	62 times ranked	2596 citing authors

#	Article	IF	Citations
1	Effects of Ascorbic Acid on Proliferation and Collagen Synthesis in Relation to the Donor Age of Human Dermal Fibroblasts. Journal of Investigative Dermatology, 1994, 103, 228-232.	0.3	161
2	Structural changes in human type I collagen fibrils investigated by force spectroscopy. Experimental Cell Research, 2004, 299, 335-342.	1.2	145
3	Murine Model of the Ehlers-Danlos Syndrome. Journal of Biological Chemistry, 2006, 281, 12888-12895.	1.6	144
4	Transplanted bone marrow mononuclear cells and MSCs impart clinical benefit to children with osteogenesis imperfecta through different mechanisms. Blood, 2012, 120, 1933-1941.	0.6	118
5	Molecular Mechanism of Type I Collagen Homotrimer Resistance to Mammalian Collagenases. Journal of Biological Chemistry, 2010, 285, 22276-22281.	1.6	100
6	Variable bone fragility associated with an Amish COL1A2 variant and a knock-in mouse model. Journal of Bone and Mineral Research, 2010, 25, 247-261.	3.1	98
7	Carcinomas Contain a Matrix Metalloproteinaseâ€“Resistant Isoform of Type I Collagen Exerting Selective Support to Invasion. Cancer Research, 2010, 70, 4366-4374.	0.4	89
8	17Î²-Estradiol and Progesterone Inhibit Transcription of the Genes Encoding the Subunits of Ovine Follicle-Stimulating Hormone. Molecular Endocrinology, 1988, 2, 641-649.	3.7	88
9	Ascorbic acid and transforming growth factor-Î²1 increase collagen biosynthesis via different mechanisms: Coordinate regulation of proÎ±1(I) and proÎ±1(III) collagens. Archives of Biochemistry and Biophysics, 1992, 295, 397-403.	1.4	79
10	Oim mice exhibit altered femur and incisor mineral composition and decreased bone mineral density. Bone, 2000, 27, 219-226.	1.4	74
11	Osteoblast Malfunction Caused by Cell Stress Response to Procollagen Misfolding in Î±2(I)-G610C Mouse Model of Osteogenesis Imperfecta. Journal of Bone and Mineral Research, 2016, 31, 1608-1616.	3.1	71
12	Alpha 2(I) collagen deficient oim mice have altered biomechanical integrity, collagen content, and collagen crosslinking of their thoracic aorta. Matrix Biology, 2005, 24, 451-458.	1.5	62
13	The role of type I collagen in aortic wall strength with a homotrimeric [Î±1(I)]3 collagen mouse model. Journal of Vascular Surgery, 2001, 33, 1263-1270.	0.6	59
14	Live Imaging of Type I Collagen Assembly Dynamics in Osteoblasts Stably Expressing GFP and mCherry-Tagged Collagen Constructs. Journal of Bone and Mineral Research, 2018, 33, 1166-1182.	3.1	58
15	Skeletal muscle weakness in osteogeneis imperfecta mice. Matrix Biology, 2010, 29, 638-644.	1.5	52
16	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. Journal of Biological Chemistry, 1991, 266, 2590-2594.	1.6	51
17	Hindlimb skeletal muscle function in myostatinâ€deficient mice. Muscle and Nerve, 2011, 43, 49-57.	1.0	50
18	Gender-Dependence of Bone Structure and Properties in Adult Osteogenesis Imperfecta Murine Model. Annals of Biomedical Engineering, 2013, 41, 1139-1149.	1.3	50

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19	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. Journal of Biological Chemistry, 1991, 266, 2590-4.	1.6	39
20	Role of genetic background in determining phenotypic severity throughout postnatal development and at peak bone mass in Col1a2 deficient mice (oim). Bone, 2008, 42, 681-694.	1.4	38
21	Transfer of pro?2(I) cDNA into cells of a murine model of human Osteogenesis Imperfecta restores synthesis of type I collagen comprised of ?1(I) and ?2(I) heterotrimers in vitro and in vivo. Journal of Cellular Biochemistry, 2001, 83, 84-91.	1.2	35
22	Developmental Exposure to Xenoestrogens at Low Doses Alters Femur Length and Tensile Strength in Adult Mice1. Biology of Reproduction, 2012, 86, 69.	1.2	35
23	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.. Journal of Clinical Investigation, 1990, 86, 1723-1728.	3.9	32
24	Novel collagen glomerulopathy in a homotrimeric type I collagen mouse (oim). Kidney International, 2002, 62, 383-391.	2.6	27
25	Transgenic over-expression of plasminogen activator inhibitor-1 results in age-dependent and gender-specific increases in bone strength and mineralization. Bone, 2007, 41, 995-1004.	1.4	27
26	Myostatin deficiency partially rescues the bone phenotype of osteogenesis imperfecta model mice. Osteoporosis International, 2016, 27, 161-170.	1.3	27
27	Effect of Food Restriction and Leptin Supplementation on Fetal Programming in Mice. Endocrinology, 2012, 153, 4556-4567.	1.4	25
28	Skeletal Response to Soluble Activin Receptor Type IIB in Mouse Models of Osteogenesis Imperfecta. Journal of Bone and Mineral Research, 2018, 33, 1760-1772.	3.1	24
29	The Gene Encoding Ovine Follicle-Stimulating Hormone Î²: Isolation, Characterization, and Comparison to a Related Ovine Genomic Sequence. DNA and Cell Biology, 1991, 10, 593-601.	0.9	22
30	Homozygosity and Heterozygosity for Null Col5a2 Alleles Produce Embryonic Lethality and a Novel Classic Ehlers-Danlos Syndromeâ€“Related Phenotype. American Journal of Pathology, 2015, 185, 2000-2011.	1.9	22
31	Sequence analysis of a full-length cDNA for the murine proÎ±2(I) collagen chain: Comparison of the derived primary structure with human proÎ±2(I) collagen. Genomics, 1992, 13, 1345-1346.	1.3	21
32	Soluble activin receptor type IIB decoy receptor differentially impacts murine osteogenesis imperfecta muscle function. Muscle and Nerve, 2018, 57, 294-304.	1.0	20
33	Hindlimb Skeletal Muscle Function and Skeletal Quality and Strength in +/G610C Mice With and Without Weight-Bearing Exercise. Journal of Bone and Mineral Research, 2015, 30, 1874-1886.	3.1	19
34	Compromised Exercise Capacity and Mitochondrial Dysfunction in the Osteogenesis Imperfecta Murine (oim) Mouse Model. Journal of Bone and Mineral Research, 2019, 34, 1646-1659.	3.1	19
35	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. Journal of Inherited Metabolic Disease, 2001, 24, 393-403.	1.7	15
36	Osteogenesis Imperfecta: Muscleâ€“Bone Interactions when Bi-directionally Compromised. Current Osteoporosis Reports, 2018, 16, 478-489.	1.5	14

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37	Construction of a Full-Length Murine Proĵ±2(I) Collagen cDNA by the Polymerase Chain Reaction. Journal of Investigative Dermatology, 1991, 97, 980-984.	0.3	13
38	Immunological similarity of milk sulfhydryl oxidase and kidney glutathione oxidase. Archives of Biochemistry and Biophysics, 1984, 228, 681-685.	1.4	12
39	Evidence of Common Ancestry for the Maple Syrup Urine Disease (MSUD) Y438N Allele in Non-Mennonite MSUD Patients. Molecular Genetics and Metabolism, 2002, 75, 79-90.	0.5	12
40	Deciphering Myostatinâ€™s Regulatory, Metabolic, and Developmental Influence in Skeletal Diseases. Frontiers in Genetics, 2021, 12, 662908.	1.1	12
41	Type I collagen glomerulopathy: postnatal collagen deposition follows glomerular maturation. Kidney International, 2007, 71, 985-993.	2.6	11
42	Mutations in the COL1A2 gene of type I collagen that result in nonlethal forms of osteogenesis imperfecta. American Journal of Medical Genetics Part A, 1993, 45, 228-232.	2.4	10
43	Deficient degradation of homotrimeric type I collagen, Î±1(I)3 glomerulopathy in oim mice. Molecular Genetics and Metabolism, 2011, 104, 373-382.	0.5	10
44	Combinatorial Inhibition of Myostatin and Activin A Improves Femoral Bone Properties in the G610C Mouse Model of Osteogenesis Imperfecta. Journal of Bone and Mineral Research, 2020, 37, 938-953.	3.1	10
45	Osteogenesis Imperfecta Type IV.. Annals of the New York Academy of Sciences, 1990, 580, 546-548.	1.8	9
46	DNA Carrier Testing and Newborn Screening for Maple Syrup Urine Disease in Old Order Mennonite Communities. Genetic Testing and Molecular Biomarkers, 2010, 14, 205-208.	0.3	9
47	Impact of Genetic and Pharmacologic Inhibition of Myostatin in a Murine Model of Osteogenesis Imperfecta. Journal of Bone and Mineral Research, 2020, 36, 739-756.	3.1	9
48	Decreasing maternal myostatin programs adult offspring bone strength in a mouse model of osteogenesis imperfecta. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 13522-13527.	3.3	8
49	Characterization of the MPS I-H knock-in mouse reveals increased femoral biomechanical integrity with compromised material strength and altered bone geometry. Molecular Genetics and Metabolism Reports, 2015, 5, 3-11.	0.4	7
50	Transforming growth factor-β1/Smad3-independent epithelial–mesenchymal transition in type I collagen glomerulopathy. International Journal of Nephrology and Renovascular Disease, 2017, Volume 10, 251-259.	0.8	7
51	Potential modifier role of the R618Q variant of proĵ±2(I)collagen in type I collagen fibrillogenesis: in vitro assembly analysis. Molecular Genetics and Metabolism, 2004, 82, 144-153.	0.5	6
52	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.	0.5	5
53	Impact of Intrinsic Muscle Weakness on Muscleâ€“Bone Crosstalk in Osteogenesis Imperfecta. International Journal of Molecular Sciences, 2021, 22, 4963.	1.8	5
54	Multi-element analysis of bone from the osteogenesis imperfecta model (OIM) mouse using thermal and fast neutron activation analysis. Journal of Radioanalytical and Nuclear Chemistry, 2008, 276, 65-69.	0.7	4

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55	Leprdb/+ Dams Protect Wild-type Male Offspring Bone Strength from the Detrimental Effects of a High-Fat Diet. Endocrinology, 2020, 161, .	1.4	3
56	DNA Sequence Analysis of Alpha 2(I) Collagen from an Individual with the Marfan Phenotype. Annals of the New York Academy of Sciences, 1990, 580, 560-561.	1.8	2
57	Dietary Fluoride Restriction Does Not Alter Femoral Biomechanical Strength in col1a2-Deficient (oim) Mice with Type I Collagen Glomerulopathy. Journal of Nutrition, 2010, 140, 1752-1756.	1.3	1
58	Fecundity is impaired in a mouse model of osteogenesis imperfecta. Molecular Reproduction and Development, 2020, 87, 927-929.	1.0	1
59	Animal Models of Osteogenesis Imperfecta. , 2014, , 197-207.		0
60	Effect of impact exercise on skeletal muscle and bone in OI model mice. FASEB Journal, 2009, 23, LB170.	0.2	0
61	Potential mitochondrial dysfunction in skeletal muscle of mouse models of Osteogenesis imperfecta.. FASEB Journal, 2018, 32, 543.20.	0.2	0
62	Skeletal muscle mitochondrial function and whole-body metabolic energetics in the +/G610C mouse model of osteogenesis imperfecta. Molecular Genetics and Metabolism, 2022, , .	0.5	0