

Peter H Byers

List of Publications by Citations

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238
papers

16,888
citations

72
h-index

123
g-index

248
ext. papers

18,687
ext. citations

8.9
avg, IF

6.15
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 238 | Aneurysm syndromes caused by mutations in the TGF-beta receptor. <i>New England Journal of Medicine</i> , 2006 , 355, 788-98 | 59.2 | 1243 |
| 237 | Clinical and genetic features of Ehlers-Danlos syndrome type IV, the vascular type. <i>New England Journal of Medicine</i> , 2000 , 342, 673-80 | 59.2 | 1011 |
| 236 | Consortium for osteogenesis imperfecta mutations in the helical domain of type I collagen: regions rich in lethal mutations align with collagen binding sites for integrins and proteoglycans. <i>Human Mutation</i> , 2007 , 28, 209-21 | 4.7 | 504 |
| 235 | CRTAP is required for prolyl 3- hydroxylation and mutations cause recessive osteogenesis imperfecta. <i>Cell</i> , 2006 , 127, 291-304 | 56.2 | 394 |
| 234 | Loss-of-function mutations in TGFB2 cause a syndromic presentation of thoracic aortic aneurysm. <i>Nature Genetics</i> , 2012 , 44, 922-7 | 36.3 | 323 |
| 233 | Human Ehlers-Danlos syndrome type VII C and bovine dermatosparaxis are caused by mutations in the procollagen I N-proteinase gene. <i>American Journal of Human Genetics</i> , 1999 , 65, 308-17 | 11 | 302 |
| 232 | Osteogenesis imperfecta. <i>Nature Reviews Disease Primers</i> , 2017 , 3, 17052 | 51.1 | 292 |
| 231 | The bicuspid aortic valve: an integrated phenotypic classification of leaflet morphology and aortic root shape. <i>Heart</i> , 2008 , 94, 1634-8 | 5.1 | 287 |
| 230 | Homozygosity for a missense mutation in SERPINH1, which encodes the collagen chaperone protein HSP47, results in severe recessive osteogenesis imperfecta. <i>American Journal of Human Genetics</i> , 2010 , 86, 389-98 | 11 | 253 |
| 229 | Osteogenesis imperfecta: translation of mutation to phenotype. <i>Journal of Medical Genetics</i> , 1991 , 28, 433-42 | 5.8 | 249 |
| 228 | Gene targeting in stem cells from individuals with osteogenesis imperfecta. <i>Science</i> , 2004 , 303, 1198-201 | 33.3 | 244 |
| 227 | Defect in conversion of procollagen to collagen in a form of Ehlers-Danlos syndrome. <i>Science</i> , 1973 , 182, 298-300 | 33.3 | 242 |
| 226 | Mutations in the gene encoding the RER protein FKBP65 cause autosomal-recessive osteogenesis imperfecta. <i>American Journal of Human Genetics</i> , 2010 , 86, 551-9 | 11 | 238 |
| 225 | Osteogenesis imperfecta. <i>Annual Review of Medicine</i> , 1992 , 43, 269-82 | 17.4 | 223 |
| 224 | Brittle bones--fragile molecules: disorders of collagen gene structure and expression. <i>Trends in Genetics</i> , 1990 , 6, 293-300 | 8.5 | 196 |
| 223 | Marfan syndrome: defective synthesis, secretion, and extracellular matrix formation of fibrillin by cultured dermal fibroblasts. <i>Journal of Clinical Investigation</i> , 1992 , 89, 79-86 | 15.9 | 194 |
| 222 | Subtle structural alterations in the chains of type I procollagen produce osteogenesis imperfecta type II. <i>Nature</i> , 1985 , 316, 363-6 | 50.4 | 187 |

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| 221 | X-linked cutis laxa: defective cross-link formation in collagen due to decreased lysyl oxidase activity. <i>New England Journal of Medicine</i> , 1980 , 303, 61-5 | 59.2 | 181 |
| 220 | Altered triple helical structure of type I procollagen in lethal perinatal osteogenesis imperfecta. <i>Journal of Biological Chemistry</i> , 1985 , 260, 1734-42 | 5.4 | 177 |
| 219 | Perinatal lethal osteogenesis imperfecta (OI type II): a biochemically heterogeneous disorder usually due to new mutations in the genes for type I collagen. <i>American Journal of Human Genetics</i> , 1988 , 42, 237-48 | 11 | 173 |
| 218 | CRTAP and LEPRE1 mutations in recessive osteogenesis imperfecta. <i>Human Mutation</i> , 2008 , 29, 1435-42 | 4.7 | 172 |
| 217 | WNT1 mutations in families affected by moderately severe and progressive recessive osteogenesis imperfecta. <i>American Journal of Human Genetics</i> , 2013 , 92, 590-7 | 11 | 156 |
| 216 | Reduced secretion of structurally abnormal type I procollagen in a form of osteogenesis imperfecta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1981 , 78, 5142-6 | 11.5 | 154 |
| 215 | Cerebrovascular complications in Ehlers-Danlos syndrome type IV. <i>Annals of Neurology</i> , 1995 , 38, 960-4 | 9.4 | 153 |
| 214 | Survival is affected by mutation type and molecular mechanism in vascular Ehlers-Danlos syndrome (EDS type IV). <i>Genetics in Medicine</i> , 2014 , 16, 881-8 | 8.1 | 151 |
| 213 | Altered triple helical structure of type I procollagen in lethal perinatal osteogenesis imperfecta.. <i>Journal of Biological Chemistry</i> , 1985 , 260, 1734-1742 | 5.4 | 151 |
| 212 | Cysteine in the triple-helical domain of one allelic product of the alpha 1(I) gene of type I collagen produces a lethal form of osteogenesis imperfecta. <i>Journal of Biological Chemistry</i> , 1984 , 259, 11129-38 | 5.4 | 144 |
| 211 | Haploinsufficiency for one COL3A1 allele of type III procollagen results in a phenotype similar to the vascular form of Ehlers-Danlos syndrome, Ehlers-Danlos syndrome type IV. <i>American Journal of Human Genetics</i> , 2001 , 69, 989-1001 | 11 | 142 |
| 210 | Diagnosis, natural history, and management in vascular Ehlers-Danlos syndrome. <i>American Journal of Medical Genetics, Part C: Seminars in Medical Genetics</i> , 2017 , 175, 40-47 | 3.1 | 140 |
| 209 | Analysis of multigenerational families with thoracic aortic aneurysms and dissections due to TGFBR1 or TGFBR2 mutations. <i>Journal of Medical Genetics</i> , 2009 , 46, 607-13 | 5.8 | 140 |
| 208 | Haploinsufficiency of SF3B4, a component of the pre-mRNA spliceosomal complex, causes Nager syndrome. <i>American Journal of Human Genetics</i> , 2012 , 90, 925-33 | 11 | 135 |
| 207 | Recurrence of lethal osteogenesis imperfecta due to parental mosaicism for a dominant mutation in a human type I collagen gene (COL1A1). <i>American Journal of Human Genetics</i> , 1990 , 46, 591-601 | 11 | 133 |
| 206 | Pre- and postnatal transplantation of fetal mesenchymal stem cells in osteogenesis imperfecta: a two-center experience. <i>Stem Cells Translational Medicine</i> , 2014 , 3, 255-64 | 6.9 | 131 |
| 205 | Rare autosomal recessive cardiac valvular form of Ehlers-Danlos syndrome results from mutations in the COL1A2 gene that activate the nonsense-mediated RNA decay pathway. <i>American Journal of Human Genetics</i> , 2004 , 74, 917-30 | 11 | 127 |
| 204 | Cysteine in the triple-helical domain of one allelic product of the alpha 1(I) gene of type I collagen produces a lethal form of osteogenesis imperfecta.. <i>Journal of Biological Chemistry</i> , 1984 , 259, 11129-11138 | 5.4 | 125 |

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| 203 | Type I osteogenesis imperfecta: a nonfunctional allele for pro alpha 1 (I) chains of type I procollagen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1982 , 79, 3838-42 | 11.5 | 120 |
| 202 | Clinical and ultrastructural heterogeneity of type IV Ehlers-Danlos syndrome. <i>Human Genetics</i> , 1979 , 47, 141-50 | 6.3 | 119 |
| 201 | Mutations in FKBP10, which result in Bruck syndrome and recessive forms of osteogenesis imperfecta, inhibit the hydroxylation of telopeptide lysines in bone collagen. <i>Human Molecular Genetics</i> , 2013 , 22, 1-17 | 5.6 | 117 |
| 200 | BiP binds type I procollagen pro alpha chains with mutations in the carboxyl-terminal propeptide synthesized by cells from patients with osteogenesis imperfecta. <i>Journal of Biological Chemistry</i> , 1993 , 268, 18226-33 | 5.4 | 117 |
| 199 | Structural abnormalities in the dermal collagen and elastic matrix from the skin of patients with inherited connective tissue disorders. <i>Journal of Investigative Dermatology</i> , 1982 , 79 Suppl 1, 7s-16s | 4.3 | 116 |
| 198 | Usefulness of bicuspid aortic valve phenotype to predict elastic properties of the ascending aorta. <i>American Journal of Cardiology</i> , 2007 , 99, 686-90 | 3 | 114 |
| 197 | Intron-mediated recombination may cause a deletion in an alpha 1 type I collagen chain in a lethal form of osteogenesis imperfecta. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1985 , 82, 2870-4 | 11.5 | 111 |
| 196 | Null alleles of the COL5A1 gene of type V collagen are a cause of the classical forms of Ehlers-Danlos syndrome (types I and II). <i>American Journal of Human Genetics</i> , 2000 , 66, 1757-65 | 11 | 110 |
| 195 | A translocation interrupts the COL5A1 gene in a patient with Ehlers-Danlos syndrome and hypomelanosis of Ito. <i>Nature Genetics</i> , 1996 , 13, 361-5 | 36.3 | 108 |
| 194 | Lethal osteogenesis imperfecta resulting from a single nucleotide change in one human pro alpha 1(I) collagen allele. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1986 , 83, 6045-7 | 11.5 | 108 |
| 193 | Marfan syndrome: abnormal alpha 2 chain in type I collagen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1981 , 78, 7745-9 | 11.5 | 105 |
| 192 | Endoplasmic reticulum-mediated quality control of type I collagen production by cells from osteogenesis imperfecta patients with mutations in the pro alpha 1 (I) chain carboxyl-terminal propeptide which impair subunit assembly. <i>Journal of Biological Chemistry</i> , 1995 , 270, 8642-9 | 5.4 | 104 |
| 191 | Killing the messenger: new insights into nonsense-mediated mRNA decay. <i>Journal of Clinical Investigation</i> , 2002 , 109, 3-6 | 15.9 | 103 |
| 190 | Mutations in PPIB (cyclophilin B) delay type I procollagen chain association and result in perinatal lethal to moderate osteogenesis imperfecta phenotypes. <i>Human Molecular Genetics</i> , 2011 , 20, 1595-609 ^{5.6} | 5.6 | 102 |
| 189 | Delineation of the Marfan phenotype associated with mutations in exons 23-32 of the FBN1 gene. <i>American Journal of Medical Genetics Part A</i> , 1996 , 62, 233-42 | | 101 |
| 188 | EMQN best practice guidelines for the laboratory diagnosis of osteogenesis imperfecta. <i>European Journal of Human Genetics</i> , 2012 , 20, 11-9 | 5.3 | 99 |
| 187 | Pregnancy complications in type IV Ehlers-Danlos Syndrome. <i>Lancet, The</i> , 1983 , 1, 50-3 | 40 | 99 |
| 186 | Ehlers-Danlos syndrome type VIIA and VIIB result from splice-junction mutations or genomic deletions that involve exon 6 in the COL1A1 and COL1A2 genes of type I collagen. <i>American Journal of Medical Genetics Part A</i> , 1997 , 72, 94-105 | | 96 |

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| 185 | Identification, characterization and expression analysis of a new fibrillar collagen gene, COL27A1. <i>Matrix Biology</i> , 2003 , 22, 3-14 | 11.4 | 96 |
| 184 | Osteogenesis imperfecta type I: molecular heterogeneity for COL1A1 null alleles of type I collagen. <i>American Journal of Human Genetics</i> , 1994 , 55, 638-47 | 11 | 96 |
| 183 | Mutation and polymorphism spectrum in osteogenesis imperfecta type II: implications for genotype-phenotype relationships. <i>Human Molecular Genetics</i> , 2009 , 18, 463-71 | 5.6 | 95 |
| 182 | Interchain disulfide bonds in procollagen are located in a large nontriple-helical COOH-terminal domain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1975 , 72, 3009-13 | 11.5 | 87 |
| 181 | Pregnancy-related deaths and complications in women with vascular Ehlers-Danlos syndrome. <i>Genetics in Medicine</i> , 2014 , 16, 874-80 | 8.1 | 86 |
| 180 | Molecular defects of type III procollagen in Ehlers-Danlos syndrome type IV. <i>Human Genetics</i> , 1989 , 82, 104-8 | 6.3 | 85 |
| 179 | Distinct biochemical phenotypes predict clinical severity in nonlethal variants of osteogenesis imperfecta. <i>American Journal of Human Genetics</i> , 1990 , 46, 975-82 | 11 | 85 |
| 178 | Order of intron removal influences multiple splice outcomes, including a two-exon skip, in a COL5A1 acceptor-site mutation that results in abnormal pro-alpha1(V) N-propeptides and Ehlers-Danlos syndrome type I. <i>American Journal of Human Genetics</i> , 2002 , 71, 451-65 | 11 | 83 |
| 177 | Stability related bias in residues replacing glycines within the collagen triple helix (Gly-Xaa-Yaa) in inherited connective tissue disorders. <i>Human Mutation</i> , 2004 , 24, 330-7 | 4.7 | 82 |
| 176 | Spontaneous multivessel cervical artery dissection in a patient with a substitution of alanine for glycine (G13A) in the alpha 1 (I) chain of type I collagen. <i>Neurology</i> , 1996 , 47, 552-6 | 6.5 | 82 |
| 175 | Variable expression of osteogenesis imperfecta in a nuclear family is explained by somatic mosaicism for a lethal point mutation in the alpha 1(I) gene (COL1A1) of type I collagen in a parent. <i>American Journal of Human Genetics</i> , 1990 , 46, 1034-40 | 11 | 82 |
| 174 | Frameshift mutation near the 3Pend of the COL1A1 gene of type I collagen predicts an elongated Pro alpha 1(I) chain and results in osteogenesis imperfecta type I. <i>Journal of Clinical Investigation</i> , 1990 , 85, 282-90 | 15.9 | 80 |
| 173 | COL3A1 haploinsufficiency results in a variety of Ehlers-Danlos syndrome type IV with delayed onset of complications and longer life expectancy. <i>Genetics in Medicine</i> , 2011 , 13, 717-22 | 8.1 | 79 |
| 172 | Recessively inherited forms of osteogenesis imperfecta. <i>Annual Review of Genetics</i> , 2012 , 46, 475-97 | 14.5 | 78 |
| 171 | Abnormal alpha 2-chain in type I collagen from a patient with a form of osteogenesis imperfecta. <i>Journal of Clinical Investigation</i> , 1983 , 71, 689-97 | 15.9 | 78 |
| 170 | Human dermatosparaxis: a form of Ehlers-Danlos syndrome that results from failure to remove the amino-terminal propeptide of type I procollagen. <i>American Journal of Human Genetics</i> , 1992 , 51, 235-44 | 11 | 77 |
| 169 | Inherited disorders of collagen gene structure and expression. <i>American Journal of Medical Genetics Part A</i> , 1989 , 34, 72-80 | | 75 |
| 168 | Skin is a window on heritable disorders of connective tissue. <i>American Journal of Medical Genetics Part A</i> , 1989 , 34, 105-21 | | 74 |

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| 167 | Gene targeting of mutant COL1A2 alleles in mesenchymal stem cells from individuals with osteogenesis imperfecta. <i>Molecular Therapy</i> , 2008 , 16, 187-93 | 11.7 | 73 |
| 166 | Periodontal Ehlers-Danlos Syndrome Is Caused by Mutations in C1R and C1S, which Encode Subcomponents C1r and C1s of Complement. <i>American Journal of Human Genetics</i> , 2016 , 99, 1005-1014 | 11 | 70 |
| 165 | Recurrence of lethal osteogenesis imperfecta due to parental mosaicism for a mutation in the COL1A2 gene of type I collagen. The mosaic parent exhibits phenotypic features of a mild form of the disease. <i>Human Mutation</i> , 1992 , 1, 47-54 | 4.7 | 68 |
| 164 | Osteogenesis imperfecta. The position of substitution for glycine by cysteine in the triple helical domain of the pro alpha 1(I) chains of type I collagen determines the clinical phenotype. <i>Journal of Clinical Investigation</i> , 1989 , 84, 1206-14 | 15.9 | 68 |
| 163 | Molecular mechanisms of classical Ehlers-Danlos syndrome (EDS). <i>Human Mutation</i> , 2009 , 30, 995-1002 | 4.7 | 65 |
| 162 | Testing for osteogenesis imperfecta in cases of suspected non-accidental injury. <i>Journal of Medical Genetics</i> , 2002 , 39, 382-6 | 5.8 | 64 |
| 161 | Ehlers-Danlos syndrome type IV: cosegregation of the phenotype to a COL3A1 allele of type III procollagen. <i>Human Genetics</i> , 1986 , 74, 41-6 | 6.3 | 64 |
| 160 | Spontaneous direct carotid-cavernous fistula in Ehlers-Danlos syndrome type IV: two case reports and a review of the literature. <i>Journal of Neuro-Ophthalmology</i> , 2002 , 22, 75-81 | 2.6 | 63 |
| 159 | Heterozygosity for a large deletion in the alpha 2(I) collagen gene has a dramatic effect on type I collagen secretion and produces perinatal lethal osteogenesis imperfecta. <i>Journal of Biological Chemistry</i> , 1988 , 263, 8398-404 | 5.4 | 63 |
| 158 | Splicing defects in the COL3A1 gene: marked preference for 5P(donor) splice-site mutations in patients with exon-skipping mutations and Ehlers-Danlos syndrome type IV. <i>American Journal of Human Genetics</i> , 1997 , 61, 1276-86 | 11 | 61 |
| 157 | Osteogenesis imperfecta type I is commonly due to a COL1A1 null allele of type I collagen. <i>American Journal of Human Genetics</i> , 1992 , 51, 508-15 | 11 | 61 |
| 156 | Studies of collagen synthesis and structure in the differentiation of child abuse from osteogenesis imperfecta. <i>Journal of Pediatrics</i> , 1996 , 128, 542-7 | 3.6 | 59 |
| 155 | Mutations in the carboxyl-terminal propeptide of the pro alpha 1(I) chain of type I collagen result in defective chain association and produce lethal osteogenesis imperfecta. <i>Journal of Biological Chemistry</i> , 1993 , 268, 18218-25 | 5.4 | 58 |
| 154 | Peptide mapping of collagen chains using CNBr cleavage of proteins within polyacrylamide gels. <i>Collagen and Related Research</i> , 1981 , 1, 543-8 | | 57 |
| 153 | Genetic evaluation of suspected osteogenesis imperfecta (OI). <i>Genetics in Medicine</i> , 2006 , 8, 383-8 | 8.1 | 56 |
| 152 | Type XXVII collagen at the transition of cartilage to bone during skeletogenesis. <i>Bone</i> , 2007 , 41, 535-42 | 4.7 | 56 |
| 151 | Dermatosparaxis in a Himalayan cat: II. Ultrastructural studies of dermal collagen. <i>Journal of Investigative Dermatology</i> , 1980 , 74, 100-4 | 4.3 | 56 |
| 150 | Heterozygosity for a large deletion in the alpha 2(I) collagen gene has a dramatic effect on type I collagen secretion and produces perinatal lethal osteogenesis imperfecta.. <i>Journal of Biological Chemistry</i> , 1988 , 263, 8398-8404 | 5.4 | 56 |

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| 149 | Redefinition of exon 7 in the COL1A1 gene of type I collagen by an intron 8 splice-donor-site mutation in a form of osteogenesis imperfecta: influence of intron splice order on outcome of splice-site mutation. <i>American Journal of Human Genetics</i> , 1999 , 65, 336-44 | 11 | 54 |
| 148 | Defective folding and stable association with protein disulfide isomerase/prolyl hydroxylase of type I procollagen with a deletion in the pro alpha 2(I) chain that preserves the Gly-X-Y repeat pattern. <i>Journal of Biological Chemistry</i> , 1992 , 267, 7751-7 | 5.4 | 54 |
| 147 | Recurrence of perinatal lethal osteogenesis imperfecta in sibships: parsing the risk between parental mosaicism for dominant mutations and autosomal recessive inheritance. <i>Genetics in Medicine</i> , 2011 , 13, 125-30 | 8.1 | 53 |
| 146 | Mutations in the COL3A1 gene result in the Ehlers-Danlos syndrome type IV and alterations in the size and distribution of the major collagen fibrils of the dermis. <i>Journal of Investigative Dermatology</i> , 1997 , 108, 241-7 | 4.3 | 53 |
| 145 | STRATEGIES AND OUTCOMES OF PRENATAL DIAGNOSIS FOR OSTEOGENESIS IMPERFECTA: A REVIEW OF BIOCHEMICAL AND MOLECULAR STUDIES COMPLETED IN 129 PREGNANCIES 1997 , 17, 559-570 | | 52 |
| 144 | Constitutive skipping of alternatively spliced exon 10 in the ATP7A gene abolishes Golgi localization of the menkes protein and produces the occipital horn syndrome. <i>Human Molecular Genetics</i> , 1998 , 7, 465-9 | 5.6 | 52 |
| 143 | Arginine for glycine substitution in the triple-helical domain of the products of one alpha 2(I) collagen allele (COL1A2) produces the osteogenesis imperfecta type IV phenotype.. <i>Journal of Biological Chemistry</i> , 1988 , 263, 7734-7740 | 5.4 | 52 |
| 142 | Osteogenesis imperfecta: update and perspective. <i>American Journal of Medical Genetics Part A</i> , 1984 , 17, 429-35 | | 51 |
| 141 | Prenatal diagnosis of lethal perinatal osteogenesis imperfecta (OI type II). <i>Journal of Pediatrics</i> , 1982 , 100, 127-33 | 3.6 | 50 |
| 140 | Arginine for glycine substitution in the triple-helical domain of the products of one alpha 2(I) collagen allele (COL1A2) produces the osteogenesis imperfecta type IV phenotype. <i>Journal of Biological Chemistry</i> , 1988 , 263, 7734-40 | 5.4 | 50 |
| 139 | Ehlers-Danlos syndrome: recent advances and current understanding of the clinical and genetic heterogeneity. <i>Journal of Investigative Dermatology</i> , 1994 , 103, 47S-52S | 4.3 | 49 |
| 138 | Thrombospondin II: partial cDNA sequence, chromosome location, and expression of a second member of the thrombospondin gene family in humans. <i>Genomics</i> , 1992 , 12, 421-9 | 4.3 | 49 |
| 137 | Ehlers Danlos syndrome type VIIB. Incomplete cleavage of abnormal type I procollagen by N-proteinase in vitro results in the formation of copolymers of collagen and partially cleaved pNcollagen that are near circular in cross-section. <i>Journal of Biological Chemistry</i> , 1992 , 267, 9093-100 | 5.4 | 49 |
| 136 | The Ehlers-Danlos syndromes. <i>Nature Reviews Disease Primers</i> , 2020 , 6, 64 | 51.1 | 47 |
| 135 | The challenge of comprehensive and consistent sequence variant interpretation between clinical laboratories. <i>Genetics in Medicine</i> , 2016 , 18, 20-4 | 8.1 | 46 |
| 134 | Killing the messenger: new insights into nonsense-mediated mRNA decay. <i>Journal of Clinical Investigation</i> , 2002 , 109, 3-6 | 15.9 | 46 |
| 133 | A cross-sectional multicenter study of osteogenesis imperfecta in North America - results from the linked clinical research centers. <i>Clinical Genetics</i> , 2015 , 87, 133-40 | 4 | 45 |
| 132 | Ehlers-Danlos syndrome: a showcase of conditions that lead to understanding matrix biology. <i>Matrix Biology</i> , 2014 , 33, 10-5 | 11.4 | 45 |

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| 131 | Defective C-propeptides of the proalpha2(I) chain of type I procollagen impede molecular assembly and result in osteogenesis imperfecta. <i>Journal of Biological Chemistry</i> , 2008 , 283, 16061-7 | 5.4 | 45 |
| 130 | Generalized connective tissue disease in <i>Crtap</i> ^{-/-} mouse. <i>PLoS ONE</i> , 2010 , 5, e10560 | 3.7 | 45 |
| 129 | Novel missense mutations in the TRPS1 transcription factor define the nuclear localization signal. <i>European Journal of Human Genetics</i> , 2004 , 12, 121-6 | 5.3 | 44 |
| 128 | Disruption of one intra-chain disulphide bond in the carboxyl-terminal propeptide of the proalpha1(I) chain of type I procollagen permits slow assembly and secretion of overmodified, but stable procollagen trimers and results in mild osteogenesis imperfecta. <i>Journal of Medical Genetics</i> , 2001 , 38, 443-9 | 5.8 | 44 |
| 127 | Osteogenesis imperfecta type III: mutations in the type I collagen structural genes, COL1A1 and COL1A2, are not necessarily responsible. <i>Journal of Medical Genetics</i> , 1993 , 30, 492-6 | 5.8 | 44 |
| 126 | Abnormal collagen fibril structure in the gravis form (type I) of Ehlers-Danlos syndrome. <i>Laboratory Investigation</i> , 1979 , 40, 201-6 | 5.9 | 44 |
| 125 | Folding defects in fibrillar collagens. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2001 , 356, 151-7; discussion 157-8 | 5.8 | 42 |
| 124 | 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 |
| 123 | Structural Abnormalities in the Dermal Collagen and Elastic Matrix from the Skin of Patients with Inherited Connective Tissue Disorders. <i>Journal of Investigative Dermatology</i> , 1982 , 79, 7-16 | 4.3 | 40 |
| 122 | A homozygous B3GAT3 mutation causes a severe syndrome with multiple fractures, expanding the phenotype of linkeropathy syndromes. <i>American Journal of Medical Genetics, Part A</i> , 2015 , 167A, 2691-6 | 2.5 | 39 |
| 121 | Genetic disorders of collagen metabolism. <i>Advances in Human Genetics</i> , 1982 , 12, 1-87 | | 39 |
| 120 | Heritable collagen disorders: the paradigm of the Ehlers-Danlos syndrome. <i>Journal of Investigative Dermatology</i> , 2012 , 132, E6-11 | 4.3 | 38 |
| 119 | Osteogenesis imperfecta: perspectives and opportunities. <i>Current Opinion in Pediatrics</i> , 2000 , 12, 603-9 | 3.2 | 38 |
| 118 | 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 |
| 117 | Parental somatic and germ-line mosaicism for a multiexon deletion with unusual endpoints in a type III collagen (COL3A1) allele produces Ehlers-Danlos syndrome type IV in the heterozygous offspring. <i>American Journal of Human Genetics</i> , 1993 , 53, 62-70 | 11 | 37 |
| 116 | A single amino acid substitution (D1441Y) in the carboxyl-terminal propeptide of the proalpha1(I) chain of type I collagen results in a lethal variant of osteogenesis imperfecta with features of dense bone diseases. <i>Journal of Medical Genetics</i> , 2002 , 39, 23-9 | 5.8 | 36 |
| 115 | An RT-PCR-SSCP screening strategy for detection of mutations in the gene encoding the alpha 1 chain of type I collagen: application to four patients with osteogenesis imperfecta. <i>Human Molecular Genetics</i> , 1993 , 2, 1155-60 | 5.6 | 36 |
| 114 | Natural variation in four human collagen genes across an ethnically diverse population. <i>Genomics</i> , 2008 , 91, 307-14 | 4.3 | 35 |

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| 113 | Collagens: building blocks at the end of the development line. <i>Clinical Genetics</i> , 2000 , 58, 270-9 | 4 | 35 |
| 112 | Partial COL1A2 gene duplication produces features of osteogenesis imperfecta and Ehlers-Danlos syndrome type VII. <i>Human Genetics</i> , 2000 , 106, 19-28 | 6.3 | 33 |
| 111 | Molecular basis of hereditary disorders of connective tissue. <i>Annual Review of Medicine</i> , 1994 , 45, 149-63 | 7.4 | 33 |
| 110 | Osteogenesis imperfecta: mode of delivery and neonatal outcome. <i>Obstetrics and Gynecology</i> , 2001 , 97, 66-9 | 4.9 | 32 |
| 109 | Osteogenesis imperfecta: the molecular basis of clinical heterogeneity. <i>Annals of the New York Academy of Sciences</i> , 1988 , 543, 117-28 | 6.5 | 32 |
| 108 | Determination of the molecular basis of Marfan syndrome: a growth industry. <i>Journal of Clinical Investigation</i> , 2004 , 114, 161-163 | 15.9 | 32 |
| 107 | A novel mutation causes a perinatal lethal form of osteogenesis imperfecta. An insertion in one alpha 1(I) collagen allele (COL1A1).. <i>Journal of Biological Chemistry</i> , 1988 , 263, 7855-7861 | 5.4 | 32 |
| 106 | Osteogenesis imperfecta due to recurrent point mutations at CpG dinucleotides in the COL1A1 gene of type I collagen. <i>Human Genetics</i> , 1991 , 87, 33-40 | 6.3 | 31 |
| 105 | Osteogenesis imperfecta type IV. Biochemical confirmation of genetic linkage to the pro alpha 2(I) gene of type I collagen. <i>Journal of Clinical Investigation</i> , 1986 , 78, 1449-55 | 15.9 | 31 |
| 104 | Refining the structure and content of clinical genomic reports. <i>American Journal of Medical Genetics, Part C: Seminars in Medical Genetics</i> , 2014 , 166C, 85-92 | 3.1 | 30 |
| 103 | First-trimester prenatal diagnosis of osteogenesis imperfecta type II by DNA analysis and sonography. <i>Prenatal Diagnosis</i> , 1993 , 13, 589-96 | 3.2 | 30 |
| 102 | Molecular basis of clinical heterogeneity in the Ehlers-Danlos syndrome. <i>Annals of the New York Academy of Sciences</i> , 1985 , 460, 298-310 | 6.5 | 30 |
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5 Clinical Correlate: Osteogenesis Imperfecta 111-115

4 ABNORMALITIES IN THE PRODUCTION OF EXTRACELLULAR MATRIX BY CELLS FROM INDIVIDUALS WITH INHERITED DISORDERS OF COLLAGEN BIOSYNTHESIS**Supported in part by grants from the USPHS (AM 21557, AM 30426, GM 07266), Clinical Research Grants from the March of Dimes Birth Defects Foundation (6-298 and 6-312), a grant from the Osteogenesis Imperfecta Foundation, and

3 Marfan syndrome resulting from a rare pathogenic FBN1 variant, ascertained through a proband with IgG4-related arteriopathy. *American Journal of Medical Genetics, Part A*, **2021**, 185, 2180-2189 2.5

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