



* Aldehyde + Aldehyde), Aldol cress-like.

CoMagren	Genes
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	COLAI, Z
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11	COUAI
•	
111	COLJAI
IV	(OL 4A1, 2, 3, 4, 5, 6
	•
V	Col5 A1,2,3
·	• -
VI	Col6A 1,713
1	

Most forms of the condition are inherited in an autosomal dominant pattern					
	Inheritance	Characteristics	Туре	_	
	Autosomal dominant	Joint hypermobility, skin hyperextensibility, and fragility	Classical type		
	Autosomaldominant	Joint hypermobility, frequent dislocations	Hypermobility type		
	Primarily autosomal dominant, recessive described	Spontaneous rupture of arteries and bowel, can lead to death	Vascular type		
	Autosomal recessive	Fragile eyes, significant skin and joint laxity, severe scoliosis	Kyphoscoliosis type		
	Autosomal dominant and recessive	Short height, severe joint laxity and dislocations, variable skin involvement	Arthrochalasia type		
	Autosomal recessive	Severely fragile skin, soft and doughy with sagging and folding	Dermatosparaxis type	-	
	Autosomal recessive	Joint hypermobility, hyperelastic skin, and fragile tissue	Tenascin-X deficient type		
Ehlers Danlos syndrom (EDS)					
⇒	group of inherited connective	Mulations can	cause EDS:		

Ehlers Danlos syndrom (E	FDS)			
group of inherited connective tissue disorders, caused by a defect in the synthesis of collagen (Type I or III). The collagen in connective tissue helps tissues resist deformation. abnormal collagen leads to increased elasticity		Mulations	Com	caure EDS:
		fibrous p	-	Enzymes
		- COLIAI / COLIA2		
		- COL 3 A)		ADAMTS2
		,		PLOD 1
Abnormalities in tenascin protein also		. CoL5A1 / COL5A2		
				BYGALTZ
- play role	in regulation 4	the .TNAB		
normal di	istribution on			

Collagan.

Description	Symptoms/Risk Factors	Causes	Condition
Affects connective tissue, caused by defects in type II or XI collagen.	Abnormal bone dev <u>elopment,</u> short stature, enlarged joints, etc.	Mutations in COL11A1, COL11A2, COL2A1	Collagenopathy (Type II & XI)
Results from defects in the COL2A1 gene affecting connective tissues.	Abnormal bone development, short stature, premature arthritis, etc.	Defects in the COL2A1 gene	Collagenopathy, Type 2 Alpha 1
Genetic disorder characterized by end stage kidney disease, hearing loss.	End-stage kidney disease in male relatives, hearing loss before age 30	Mutations in COL4A3, COL4A4, COL4A5	Alport Syndrome —
Affects skeletal muscles, severe muscle weakness from birth.	Severe muscle weakness, inability to walk unassisted.	Mutations in COL6A1, COL6A2, COL6A3	Ullrich Congenital Muscular Dystrophy