Mari Kaartinen

List of Publications by Year in descending order

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		186265	223800
47	2,433	28	46
papers	citations	h-index	g-index

48	48	48	2986
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Transglutaminase Regulation of Cell Function. Physiological Reviews, 2014, 94, 383-417.	28.8	353
2	Pyrophosphate Inhibits Mineralization of Osteoblast Cultures by Binding to Mineral, Up-regulating Osteopontin, and Inhibiting Alkaline Phosphatase Activity. Journal of Biological Chemistry, 2007, 282, 15872-15883.	3.4	313
3	Cross-linking of Osteopontin by Tissue Transglutaminase Increases Its Collagen Binding Properties. Journal of Biological Chemistry, 1999, 274, 1729-1735.	3.4	136
4	Tissue Transglutaminase and Its Substrates in Bone. Journal of Bone and Mineral Research, 2002, 17, 2161-2173.	2.8	111
5	Transglutaminase activity regulates osteoblast differentiation and matrix mineralization in MC3T3-E1 osteoblast cultures. Matrix Biology, 2006, 25, 135-148.	3.6	104
6	Hierarchies of Extracellular Matrix and Mineral Organization in Bone of the Craniofacial Complex and Skeleton. Cells Tissues Organs, 2005, 181, 176-188.	2.3	86
7	Extracellular matrix mineralization in murine MC3T3-E1 osteoblast cultures: An ultrastructural, compositional and comparative analysis with mouse bone. Bone, 2015, 71, 244-256.	2.9	86
8	Cartilage Formation and Calcification in Arteries of Mice Lacking Matrix Gla Protein. Connective Tissue Research, 2003, 44, 272-278.	2.3	77
9	ATP-mediated mineralization of MC3T3-E1 osteoblast cultures. Bone, 2007, 41, 549-561.	2.9	77
10	Transglutaminases in mineralized tissues. Frontiers in Bioscience - Landmark, 2006, 11, 1591.	3.0	76
11	Transglutaminase-catalyzed Cross-linking of Osteopontin Is Inhibited by Osteocalcin. Journal of Biological Chemistry, 1997, 272, 22736-22741.	3.4	73
12	Osteopontin Upregulation and Polymerization by Transglutaminase 2 in Calcified Arteries of Matrix Gla Protein-deficient Mice. Journal of Histochemistry and Cytochemistry, 2007, 55, 375-386.	2.5	55
13	Plasma Membrane Factor XIIIA Transglutaminase Activity Regulates Osteoblast Matrix Secretion and Deposition by Affecting Microtubule Dynamics. PLoS ONE, 2011, 6, e15893.	2.5	52
14	Size Distribution and Molecular Associations of Plasma Fibronectin and Fibronectin Crosslinked by TransglutaminaseÂ2. Protein Journal, 2008, 27, 223-233.	1.6	47
15	Factor XIII-A transglutaminase acts as a switch between preadipocyte proliferation and differentiation. Blood, 2014, 124, 1344-1353.	1.4	45
16	Expression and Localization of Plasma Transglutaminase Factor XIIIA in Bone. Journal of Histochemistry and Cytochemistry, 2007, 55, 675-685.	2.5	43
17	Osteopontin functions as an opsonin and facilitates phagocytosis by macrophages of hydroxyapatite-coated microspheres: Implications for bone wound healing. Bone, 2008, 43, 708-716.	2.9	42
18	Transglutaminase activity arising from Factor XIIIA is required for stabilization and conversion of plasma fibronectin into matrix in osteoblast cultures. Bone, 2014, 59, 127-138.	2.9	42

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19	The bioorganic chemistry of transglutaminase â€" from mechanism to inhibition and engineering. Canadian Journal of Chemistry, 2008, 86, 271-276.	1.1	39
20	Periodic beaded-filament assembly of fibronectin on negatively charged surface. Journal of Structural Biology, 2010, 170, 50-59.	2.8	39
21	Transglutaminases factor XIII-A and TG2 regulate resorption, adipogenesis and plasma fibronectin homeostasis in bone and bone marrow. Cell Death and Differentiation, 2017, 24, 844-854.	11.2	38
22	Bone extracts immunomodulate and enhance the regenerative performance of dicalcium phosphates bioceramics. Acta Biomaterialia, 2019, 89, 343-358.	8.3	35
23	Transglutaminase-mediated oligomerization promotes osteoblast adhesive properties of osteopontin and bone sialoprotein. Cell Adhesion and Migration, 2011, 5, 65-72.	2.7	33
24	Homotypic Interactions of Soluble and Immobilized Osteopontin. Annals of Biomedical Engineering, 2002, 30, 840-850.	2.5	32
25	Enhanced osteoblast adhesion on transglutaminase 2-crosslinked fibronectin. Amino Acids, 2009, 36, 747-753.	2.7	32
26	Cartilage Formation and Calcification in Arteries of Mice Lacking Matrix Gla Protein. Connective Tissue Research, 2003, 44, 272-278.	2.3	32
27	Transglutaminase Crosslinking of SIBLING Proteins in Teeth. Journal of Dental Research, 2005, 84, 607-612.	5.2	31
28	Mineralization-inhibiting effects of transglutaminase-crosslinked polymeric osteopontin. Bone, 2017, 101, 37-48.	2.9	31
29	Factor XIIIA transglutaminase expression and secretion by osteoblasts is regulated by extracellular matrix collagen and the MAP kinase signaling pathway. Journal of Cellular Physiology, 2012, 227, 2936-2946.	4.1	27
30	Regulation of ATPase activity of transglutaminase 2 by MT1â€MMP: Implications for mineralization of MC3T3â€E1 osteoblast cultures. Journal of Cellular Physiology, 2010, 223, 260-269.	4.1	25
31	Transglutaminase 2â€"a novel inhibitor of adipogenesis. Cell Death and Disease, 2015, 6, e1868-e1868.	6.3	25
32	Transglutaminase activity regulates differentiation, migration and fusion of osteoclasts via affecting actin dynamics. Journal of Cellular Physiology, 2018, 233, 7497-7513.	4.1	25
33	Serotonin (5-HT) inhibits Factor XIII-A-mediated plasma fibronectin matrix assembly and crosslinking in osteoblast cultures via direct competition with transamidation. Bone, 2015, 72, 43-52.	2.9	23
34	Transglutaminases and Obesity in Humans: Association of F13A1 to Adipocyte Hypertrophy and Adipose Tissue Immune Response. International Journal of Molecular Sciences, 2020, 21, 8289.	4.1	20
35	Factor XIII-A transglutaminase deficient mice show signs of metabolically healthy obesity on high fat diet. Scientific Reports, 2016, 6, 35574.	3.3	17
36	Transglutaminases in Monocytes and Macrophages. Medical Sciences (Basel, Switzerland), 2018, 6, 115.	2.9	16

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37	A bilayered dense collagen/chitosan hydrogel to model the osteochondral interface. Emergent Materials, 2019, 2, 245-262.	5.7	14
38	Biomimetic trace metals improve bone regenerative properties of calcium phosphate bioceramics. Journal of Biomedical Materials Research - Part A, 2021, 109, 666-681.	4.0	14
39	Detyrosinated Glu-tubulin is a substrate for cellular Factor XIIIA transglutaminase in differentiating osteoblasts. Amino Acids, 2014, 46, 1513-1526.	2.7	13
40	F13A1 transglutaminase expression in human adipose tissue increases in acquired excess weight and associates with inflammatory status of adipocytes. International Journal of Obesity, 2021, 45, 577-587.	3.4	13
41	Differences in plateletâ€rich plasma composition influence bone healing. Journal of Clinical Periodontology, 2021, 48, 1613-1623.	4.9	11
42	Assessment of expression and specific activities of transglutaminases TG1, TG2, and FXIII-A during osteoclastogenesis. Analytical Biochemistry, 2020, 591, 113512.	2.4	7
43	Matrisome alterations in obesity â€“ Adipose tissue transcriptome study on monozygotic weight-discordant twins. Matrix Biology, 2022, 108, 1-19.	3.6	7
44	Electrochemical modulation of plasma fibronectin surface conformation enables filament formation and control of endothelial cellâ€“surface interactions. RSC Advances, 2014, 4, 47769-47780.	3.6	6
45	Cellular Factor XIIIA Transglutaminase Localizes in Caveolae and Regulates Caveolin-1 Phosphorylation, Homo-oligomerization and c-Src Signaling in Osteoblasts. Journal of Histochemistry and Cytochemistry, 2015, 63, 829-841.	2.5	4
46	The effect of aging on the bone healing properties of blood plasma. Injury, 2021, 52, 1697-1708.	1.7	4
47	Transglutaminases in Bone Formation and Bone Matrix Stabilization. , 2015, , 263-281.		0