

Martin Griffin

List of Publications by Year in descending order

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114
papers

6,074
citations

57631

44
h-index

74018

75
g-index

114
all docs

114
docs citations

114
times ranked

6682
citing authors

#	ARTICLE	IF	CITATIONS
1	Transglutaminases: Nature's biological glues. <i>Biochemical Journal</i> , 2002, 368, 377-396.	1.7	955
2	The cellular response to transglutaminase-cross-linked collagen. <i>Biomaterials</i> , 2005, 26, 6518-6529.	5.7	183
3	Measurement of tissue transglutaminase activity in a permeabilized cell system: its regulation by Ca ²⁺ and nucleotides. <i>Biochemical Journal</i> , 1996, 313, 803-808.	1.7	146
4	Transglutaminase 2 cross-linking of matrix proteins: biological significance and medical applications. <i>Amino Acids</i> , 2009, 36, 659-670.	1.2	139
5	Application of transglutaminases in the modification of wool textiles. <i>Enzyme and Microbial Technology</i> , 2004, 34, 64-72.	1.6	134
6	A Novel RGD-independent Cell Adhesion Pathway Mediated by Fibronectin-bound Tissue Transglutaminase Rescues Cells from Anoikis. <i>Journal of Biological Chemistry</i> , 2003, 278, 42604-42614.	1.6	128
7	Analysis of Tissue Transglutaminase Function in the Migration of Swiss 3T3 Fibroblasts. <i>Journal of Biological Chemistry</i> , 2002, 277, 16567-16575.	1.6	126
8	Cell Surface Localization of Tissue Transglutaminase Is Dependent on a Fibronectin-binding Site in Its N-terminal I ² -Sandwich Domain. <i>Journal of Biological Chemistry</i> , 1999, 274, 30707-30714.	1.6	125
9	Transglutaminase overexpression sensitizes neuronal cell lines to apoptosis by increasing mitochondrial membrane potential and cellular oxidative stress. <i>Journal of Neurochemistry</i> , 2002, 81, 1061-1072.	2.1	117
10	Fibronectin-Tissue Transglutaminase Matrix Rescues RGD-impaired Cell Adhesion through Syndecan-4 and I ² 1 Integrin Co-signaling. <i>Journal of Biological Chemistry</i> , 2008, 283, 20937-20947.	1.6	117
11	Unexpected Role of Surface Transglutaminase Type II in Celiac Disease. <i>Gastroenterology</i> , 2005, 129, 1400-1413.	0.6	114
12	Transglutaminase Inhibition Reduces Fibrosis and Preserves Function in Experimental Chronic Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2007, 18, 3078-3088.	3.0	111
13	Tissue transglutaminase (TG2) - a wound response enzyme. <i>Frontiers in Bioscience - Landmark</i> , 2006, 11, 867.	3.0	108
14	Enzymatic stabilization of gelatin-based scaffolds. <i>Journal of Biomedical Materials Research Part B</i> , 2005, 72B, 37-42.	3.0	103
15	TG2, a novel extracellular protein with multiple functions. <i>Amino Acids</i> , 2012, 42, 939-949.	1.2	101
16	Tissue Transglutaminase and the Progression of Human Renal Scarring. <i>Journal of the American Society of Nephrology: JASN</i> , 2003, 14, 2052-2062.	3.0	99
17	Purification and Properties of Cyclopentanone Oxygenase of <i>Pseudomonas</i> NCIB 9872. <i>FEBS Journal</i> , 1976, 63, 199-209.	0.2	97
18	Regulation of Cell Surface Tissue Transglutaminase: Effects on Matrix Storage of Latent Transforming Growth Factor-I ² Binding Protein-1. <i>Journal of Histochemistry and Cytochemistry</i> , 1999, 47, 1417-1432.	1.3	97

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19	Transglutaminase inhibition ameliorates experimental diabetic nephropathy. <i>Kidney International</i> , 2009, 76, 383-394.	2.6	94
20	Transglutaminase 2 is involved in autophagosome maturation. <i>Autophagy</i> , 2009, 5, 1145-1154.	4.3	89
21	Transglutaminase Transcription and Antigen Translocation in Experimental Renal Scarring. <i>Journal of the American Society of Nephrology: JASN</i> , 1999, 10, 2146-2157.	3.0	88
22	Transglutaminase treatment of wool fabrics leads to resistance to detergent damage. <i>Journal of Biotechnology</i> , 2005, 116, 379-386.	1.9	86
23	Isolation and Characterization of a Cyclohexane-Metabolizing <i>Xanthobacter</i> sp. <i>Applied and Environmental Microbiology</i> , 1985, 49, 1282-1289.	1.4	82
24	RGD-independent Cell Adhesion via a Tissue Transglutaminase-Fibronectin Matrix Promotes Fibronectin Fibril Deposition and Requires Syndecan-4/2 and β 1 Integrin Co-signaling. <i>Journal of Biological Chemistry</i> , 2010, 285, 40212-40229.	1.6	81
25	Inhibition of Transglutaminase Activity Reduces Extracellular Matrix Accumulation Induced by High Glucose Levels in Proximal Tubular Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2004, 279, 47754-47762.	1.6	77
26	The metabolism of cyclopentanol by <i>Pseudomonas</i> N.C.I.B. 9872. <i>Biochemical Journal</i> , 1972, 129, 595-603.	3.2	74
27	Detection of Ca ²⁺ -Dependent Transglutaminase Activity in Root and Leaf Tissue of Monocotyledonous and Dicotyledonous Plants. <i>Plant Physiology</i> , 1998, 117, 1115-1123.	2.3	70
28	Towards development of a dermal rudiment for enhanced wound healing response. <i>Biomaterials</i> , 2008, 29, 857-868.	5.7	70
29	Characterization of a Microbial Transglutaminase Cross-linked Type II Collagen Scaffold. <i>Tissue Engineering</i> , 2006, 12, 1467-1474.	4.9	69
30	Importance of syndecan-4 and syndecan -2 in osteoblast cell adhesion and survival mediated by a tissue transglutaminase-fibronectin complex. <i>Experimental Cell Research</i> , 2011, 317, 367-381.	1.2	69
31	<i>In Vitro</i> Characterization of a Collagen Scaffold Enzymatically Cross-Linked with a Tailored Elastin-like Polymer. <i>Tissue Engineering - Part A</i> , 2009, 15, 887-899.	1.6	68
32	Synthesis of potent water-soluble tissue transglutaminase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 5559-5562.	1.0	66
33	Increased TG2 Expression Can Result in Induction of Transforming Growth Factor β 1, Causing Increased Synthesis and Deposition of Matrix Proteins, Which Can Be Regulated by Nitric Oxide. <i>Journal of Biological Chemistry</i> , 2009, 284, 29547-29558.	1.6	65
34	Cardiac fibrosis can be attenuated by blocking the activity of transglutaminase 2 using a selective small-molecule inhibitor. <i>Cell Death and Disease</i> , 2018, 9, 613.	2.7	65
35	Alterations in the distribution and activity of transglutaminase during tumour growth and metastasis. <i>Carcinogenesis</i> , 1985, 6, 459-463.	1.3	64
36	Characterization of Heparin-binding Site of Tissue Transglutaminase. <i>Journal of Biological Chemistry</i> , 2012, 287, 13063-13083.	1.6	64

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37	Cross-linking of cellular proteins by tissue transglutaminase during necrotic cell death: a mechanism for maintaining tissue integrity. <i>Biochemical Journal</i> , 2003, 371, 413-422.	1.7	63
38	Transglutaminase mediated grafting of silk proteins onto wool fabrics leading to improved physical and mechanical properties. <i>Enzyme and Microbial Technology</i> , 2007, 40, 1698-1704.	1.6	61
39	Assessment of cell viability in a three-dimensional enzymatically cross-linked collagen scaffold. <i>Journal of Materials Science: Materials in Medicine</i> , 2007, 18, 1991-2001.	1.7	57
40	Increases in Renal μ -(β -Glutamyl)-Lysine Crosslinks Result from Compartment-Specific Changes in Tissue Transglutaminase in Early Experimental Diabetic Nephropathy: Pathologic Implications. <i>Laboratory Investigation</i> , 2001, 81, 705-716.	1.7	50
41	Celiac disease IgA modulates vascular permeability in vitro through the activity of transglutaminase 2 and RhoA. <i>Cellular and Molecular Life Sciences</i> , 2009, 66, 3375-3385.	2.4	50
42	An extracellular transglutaminase is required for apple pollen tube growth. <i>Biochemical Journal</i> , 2010, 429, 261-271.	1.7	49
43	Activation of protein kinase B by adenosine A and A receptors in newborn rat cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , 2004, 37, 989-999.	0.9	48
44	Modulation of tissue transglutaminase in tubular epithelial cells alters extracellular matrix levels: A potential mechanism of tissue scarring. <i>Matrix Biology</i> , 2009, 28, 20-31.	1.5	48
45	Calmodulin antagonists of improved potency and specificity for use in the study of calmodulin biochemistry. <i>Biochemical Pharmacology</i> , 1988, 37, 1717-1723.	2.0	45
46	Importance of Tissue Transglutaminase in Repair of Extracellular Matrices and Cell Death of Dermal Fibroblasts After Exposure to a Solarium Ultraviolet A Source. <i>Journal of Investigative Dermatology</i> , 2003, 121, 412-423.	0.3	44
47	A rapid and sensitive procedure for the quantitative determination of plasma amino acids. <i>Clinica Chimica Acta</i> , 1982, 125, 89-95.	0.5	43
48	Characterization of Tissue Transglutaminase in Human Osteoblast-like Cells. <i>Journal of Bone and Mineral Research</i> , 2001, 16, 1477-1485.	3.1	43
49	Are Transglutaminase 2 Inhibitors Able to Reduce Gliadin-Induced Toxicity Related to Celiac Disease? A Proof-of-Concept Study. <i>Journal of Clinical Immunology</i> , 2013, 33, 134-142.	2.0	43
50	Recent advances in the development of tissue transglutaminase (TG2) inhibitors. <i>Amino Acids</i> , 2013, 44, 119-127.	1.2	41
51	Cross-linking of collagen I by tissue transglutaminase provides a promising biomaterial for promoting bone healing. <i>Amino Acids</i> , 2014, 46, 1751-1761.	1.2	40
52	Development of Potent and Selective Tissue Transglutaminase Inhibitors: Their Effect on TG2 Function and Application in Pathological Conditions. <i>Chemistry and Biology</i> , 2015, 22, 1347-1361.	6.2	39
53	The Role of TG2 in Regulating S100A4-Mediated Mammary Tumour Cell Migration. <i>PLoS ONE</i> , 2013, 8, e57017.	1.1	38
54	Involvement of tissue transglutaminase in the stabilisation of biomaterial/tissue interfaces important in medical devices. <i>Biomaterials</i> , 2002, 23, 1519-1526.	5.7	37

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55	Role of transglutaminase γ 21 in stabilisation of intercellular junctions of the vascular endothelium. <i>Histochemistry and Cell Biology</i> , 2004, 122, 17-25.	0.8	37
56	Expression of the cytosolic and particulate forms of transglutaminase during chemically induced rat liver carcinogenesis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1988, 970, 137-145.	1.9	36
57	Transglutaminase 2 interacts with syndecan-4 and CD44 at the surface of human macrophages to promote removal of apoptotic cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2015, 1853, 201-212.	1.9	35
58	Tissue transglutaminase induces Epithelial-Mesenchymal-Transition and the acquisition of stem cell like characteristics in colorectal cancer cells. <i>Oncotarget</i> , 2017, 8, 20025-20041.	0.8	35
59	Induction of tissue transglutaminase by dexamethasone: its correlation to receptor number and transglutaminase-mediated cell death in a series of malignant hamster fibrosarcomas. <i>Biochemical Journal</i> , 1998, 331, 105-112.	1.7	33
60	The functional relationship between transglutaminase 2 and transforming growth factor β 1 in the regulation of angiogenesis and endothelial \rightarrow mesenchymal transition. <i>Cell Death and Disease</i> , 2017, 8, e3032-e3032.	2.7	26
61	Characterization of an FMN-containing cyclohexanone monooxygenase from a cyclohexane-grown <i>Xanthobacter</i> sp.. <i>FEBS Journal</i> , 1989, 181, 199-206.	0.2	25
62	Decreased Efficiency of Trypsinization of Cells Following Photodynamic Therapy: Evaluation of a Role for Tissue Transglutaminase γ . <i>Photochemistry and Photobiology</i> , 2001, 73, 47.	1.3	25
63	Do changes in transglutaminase activity alter latent transforming growth factor beta activation in experimental diabetic nephropathy?. <i>Nephrology Dialysis Transplantation</i> , 2010, 25, 3897-3910.	0.4	24
64	Structure and Regulation of Type 2 Transglutaminase in Relation to its Physiological Functions and Pathological Roles. <i>Advances in Enzymology and Related Areas of Molecular Biology</i> , 2011, 78, 1-46.	1.3	24
65	Isopeptidase activity of human transglutaminase 2: disconnection from transamidation and characterization by kinetic parameters. <i>Amino Acids</i> , 2016, 48, 31-40.	1.2	24
66	Comparative Study of the Ability of Three <i>Xanthobacter</i> Species To Metabolize Cycloalkanes. <i>Applied and Environmental Microbiology</i> , 1986, 52, 665-671.	1.4	24
67	Detection and quantification of adulteration of durum wheat flour by flour from common wheat using reverse phase HPLC. <i>Journal of the Science of Food and Agriculture</i> , 1990, 50, 211-226.	1.7	23
68	A novel regulatory role for tissue transglutaminase in epithelial-mesenchymal transition in cystic fibrosis. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2234-2244.	1.9	23
69	Role of the cross-linking enzyme tissue transglutaminase in the biological recognition of synthetic biodegradable polymers. <i>Journal of Biomedical Materials Research Part B</i> , 2001, 54, 294-304.	3.0	22
70	Celiac Disease \rightarrow Specific TG2-Targeted Autoantibodies Inhibit Angiogenesis Ex Vivo and In Vivo in Mice by Interfering with Endothelial Cell Dynamics. <i>PLoS ONE</i> , 2013, 8, e65887.	1.1	22
71	Transglutaminase and Vascular Biology: Physiopathologic Implications and Perspectives for Therapeutic Interventions. <i>Current Medicinal Chemistry</i> , 2005, 12, 2357-2372.	1.2	21
72	The role of tissue transglutaminase (TG2) in regulating the tumour progression of the mouse colon carcinoma CT26. <i>Amino Acids</i> , 2011, 41, 909-921.	1.2	21

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73	Transglutaminase 2 null macrophages respond to lipopolysaccharide stimulation by elevated proinflammatory cytokine production due to an enhanced $\alpha_5\beta_1$ integrin-induced Src tyrosine kinase signaling. <i>Immunology Letters</i> , 2011, 138, 71-78.	1.1	21
74	Tethering a laminin peptide to a crosslinked collagen scaffold for biofunctionality. <i>Journal of Biomedical Materials Research - Part A</i> , 2009, 89A, 1001-1010.	2.1	20
75	Imidazolium-based warheads strongly influence activity of a water-soluble peptidic transglutaminase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2013, 66, 526-530.	2.6	20
76	Inhibition of collagen I accumulation reduces glomerulosclerosis by a Hic-5-dependent mechanism in experimental diabetic nephropathy. <i>Laboratory Investigation</i> , 2013, 93, 553-565.	1.7	20
77	Tissue transglutaminase (TG2) enables survival of human malignant pleural mesothelioma cells in hypoxia. <i>Cell Death and Disease</i> , 2017, 8, e2592-e2592.	2.7	20
78	The cell cycle and induction of apoptosis in a hamster fibrosarcoma cell line treated with anti-cancer drugs: its importance to solid tumour chemotherapy. <i>Journal of Neuro-Oncology</i> , 1997, 31, 195-207.	1.4	19
79	The effects of bleomycin and copper bleomycin upon transglutaminase enzymes. <i>Biochemical Pharmacology</i> , 1978, 27, 1211-1219.	2.0	18
80	TISSUE TRANSGLUTAMINASE: A MEDIATOR AND PREDICTOR OF CHRONIC ALLOGRAFT NEPHROPATHY?. <i>Transplantation</i> , 2004, 77, 1667-1675.	0.5	18
81	Targeted delivery of a novel group of site-directed transglutaminase inhibitors to the liver using liposomes: a new approach for the potential treatment of liver fibrosis. <i>Journal of Drug Targeting</i> , 2011, 19, 624-631.	2.1	17
82	Thermodynamics of binding of regulatory ligands to tissue transglutaminase. <i>Amino Acids</i> , 2010, 39, 297-304.	1.2	16
83	Inhibition of transglutaminase 2 enzymatic activity ameliorates the anti-angiogenic effects of coeliac disease autoantibodies. <i>Scandinavian Journal of Gastroenterology</i> , 2010, 45, 421-427.	0.6	16
84	Transglutaminase 2: a novel therapeutic target for idiopathic pulmonary fibrosis using selective small molecule inhibitors. <i>Amino Acids</i> , 2021, 53, 205-217.	1.2	16
85	Correlation of changes in transglutaminase activity and polyamine content of neoplastic tissue during the metastatic process. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1987, 930, 432-437.	1.9	15
86	Tailored laminin-332 $\hat{1}\pm 3$ sequence is tethered through an enzymatic linker to a collagen scaffold to promote cellular adhesion. <i>Acta Biomaterialia</i> , 2009, 5, 2441-2450.	4.1	15
87	The role of TG2 in ECV304-related vasculogenic mimicry. <i>Amino Acids</i> , 2013, 44, 89-101.	1.2	14
88	Pituitary Adenylate Cyclase-activating Polypeptide Type 1 Receptor (PAC1) Gene Is Suppressed by Transglutaminase 2 Activation. <i>Journal of Biological Chemistry</i> , 2013, 288, 32720-32730.	1.6	14
89	<i>In vivo</i> effects of tailored laminin $\hat{1}\pm 3$ conjugated scaffolds enhances wound healing: A histomorphometric analysis. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 2788-2795.	2.1	13
90	Celiac disease patient IgA antibodies induce endothelial adhesion and cell polarization defects via extracellular transglutaminase 2. <i>Cellular and Molecular Life Sciences</i> , 2014, 71, 1315-1326.	2.4	13

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91	Enhanced apoptosis in transformed human lung fibroblasts after exposure to sodium butyrate. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1996, 32, 505-513.	0.7	12
92	Mapping the minimum domain of the fibronectin binding site on transglutaminase 2 (TG2) and its importance in mediating signaling, adhesion, and migration in TG2-expressing cells. <i>FASEB Journal</i> , 2019, 33, 2327-2342.	0.2	12
93	Transglutaminase 2 maintains a colorectal cancer stem phenotype by regulating epithelial-mesenchymal transition. <i>Oncotarget</i> , 2019, 10, 4556-4569.	0.8	11
94	CDKN2A Determines Mesothelioma Cell Fate to EZH2 Inhibition. <i>Frontiers in Oncology</i> , 2021, 11, 678447.	1.3	10
95	Nitrosylation of tissue transglutaminase enhances fibroblast migration and regulates MMP activation. <i>Matrix Biology</i> , 2022, 105, 1-16.	1.5	10
96	Characterisation of the cellular substrates for transglutaminase in normal liver and hepatocellular carcinoma. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1990, 1033, 57-64.	1.1	7
97	Thioredoxin Is Involved in Endothelial Cell Extracellular Transglutaminase 2 Activation Mediated by Celiac Disease Patient IgA. <i>PLoS ONE</i> , 2013, 8, e77277.	1.1	7
98	Changes in transglutaminase activity during tumour growth and metastasis. <i>Biochemical Society Transactions</i> , 1984, 12, 297-298.	1.6	6
99	The inhibition of human duodenal adenylate cyclase activity by Ca ²⁺ and the effects of EGTA. <i>FEBS Letters</i> , 1993, 327, 137-140.	1.3	6
100	Indwelling catheters and medical implants with FXIIIa inhibitors: A novel approach to the treatment of catheter and medical device-related infections. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013, 83, 106-113.	2.0	6
101	Possible Uses of Micro-organisms in the Manufacture of Plastics and Synthetic Fibres. <i>Biotechnology and Genetic Engineering Reviews</i> , 1986, 4, 263-290.	2.4	4
102	Transglutaminase activity, tumour growth and metastasis. <i>Biochemical Society Transactions</i> , 1989, 17, 714-715.	1.6	4
103	The visualisation of vitreous using surface modified poly(lactic-co-glycolic acid) microparticles. <i>British Journal of Ophthalmology</i> , 2010, 94, 648-653.	2.1	3
104	Neurite outgrowth inhibitory levels of organophosphates induce tissue transglutaminase activity in differentiating N2a cells: evidence for covalent adduct formation. <i>Archives of Toxicology</i> , 2020, 94, 3861-3875.	1.9	3
105	Effect of platelet activation on transglutaminase activity. <i>Biochemical Society Transactions</i> , 1985, 13, 227-228.	1.6	2
106	Reduction in transglutaminase activity associated with tumour metastasis is due to the presence of an inactive form of the enzyme. <i>Biochemical Society Transactions</i> , 1990, 18, 681-682.	1.6	2
107	The use of a biotin-labelled amine to identify endogenous substrates of transglutaminase in pancreatic islets. <i>Biochemical Society Transactions</i> , 1993, 21, 424S-424S.	1.6	2
108	Polyamine levels in chemically induced rat liver tumours. <i>Biochemical Society Transactions</i> , 1986, 14, 695-696.	1.6	1

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109	Calmodulin involvement in Ca ²⁺ -induced insulin release from electropermeabilized islets of Langerhans. <i>Biochemical Society Transactions</i> , 1990, 18, 464-464.	1.6	1
110	A study of the pulmonary toxicity induced by the anti-tumour compound bleomycin. <i>Biochemical Society Transactions</i> , 1984, 12, 298-299.	1.6	0
111	Identification and characterization of an aspartate-specific peptidase (peptidase E) in <i>Escherichia coli</i> K12. <i>Biochemical Society Transactions</i> , 1989, 17, 354-354.	1.6	0
112	Identification of the endogenous substrates of the pancreatic islet transglutaminase. <i>Biochemical Society Transactions</i> , 1990, 18, 465-466.	1.6	0
113	Decreased Efficiency of Trypsinization of Cells Following Photodynamic Therapy: Evaluation of a Role for Tissue Transglutaminase. <i>Photochemistry and Photobiology</i> , 2007, 73, 47-53.	1.3	0
114	Characterization of a Microbial Transglutaminase Cross-linked Type II Collagen Scaffold. <i>Tissue Engineering</i> , 2006, .	4.9	0