

# Daniel B Rifkin

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84 papers	14,269 citations	46 h-index	86 g-index
86 ext. papers	15,535 ext. citations	7.7 avg, IF	6.22 L-index

#	Paper	IF	Citations
84	The integrin alpha v beta 6 binds and activates latent TGF beta 1: a mechanism for regulating pulmonary inflammation and fibrosis. <i>Cell</i> , <b>1999</b> , 96, 319-28	56.2	1631
83	Losartan, an AT1 antagonist, prevents aortic aneurysm in a mouse model of Marfan syndrome. <i>Science</i> , <b>2006</b> , 312, 117-21	33.3	1349
82	A syndrome of altered cardiovascular, craniofacial, neurocognitive and skeletal development caused by mutations in TGFBR1 or TGFBR2. <i>Nature Genetics</i> , <b>2005</b> , 37, 275-81	36.3	1302
81	Making sense of latent TGFbeta activation. <i>Journal of Cell Science</i> , <b>2003</b> , 116, 217-24	5.3	1297
80	Myofibroblast contraction activates latent TGF-beta1 from the extracellular matrix. <i>Journal of Cell Biology</i> , <b>2007</b> , 179, 1311-23	7.3	952
79	Biological roles of fibroblast growth factor-2. <i>Endocrine Reviews</i> , <b>1997</b> , 18, 26-45	27.2	677
78	Latent transforming growth factor beta-binding protein 1 interacts with fibrillin and is a microfibril-associated protein. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 2750-7	5.4	420
77	Basic fibroblast growth factor, a protein devoid of secretory signal sequence, is released by cells via a pathway independent of the endoplasmic reticulum-Golgi complex. <i>Journal of Cellular Physiology</i> , <b>1992</b> , 151, 81-93	7	397
76	Integrin alphaVbeta6-mediated activation of latent TGF-beta requires the latent TGF-beta binding protein-1. <i>Journal of Cell Biology</i> , <b>2004</b> , 165, 723-34	7.3	377
75	Latent transforming growth factor-beta (TGF-beta) binding proteins: orchestrators of TGF-beta availability. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 7409-12	5.4	333
74	Latent transforming growth factor-beta binding protein domains involved in activation and transglutaminase-dependent cross-linking of latent transforming growth factor-beta. <i>Journal of Cell Biology</i> , <b>1997</b> , 136, 1151-63	7.3	323
73	Latent TGF-beta binding proteins. <i>Matrix Biology</i> , <b>2015</b> , 47, 44-53	11.4	233
72	Both normal and tumor cells produce basic fibroblast growth factor. <i>Journal of Cellular Physiology</i> , <b>1986</b> , 129, 273-6	7	217
71	TGF-beta latency: biological significance and mechanisms of activation. <i>Stem Cells</i> , <b>1997</b> , 15, 190-7	5.8	212
70	Interactions between growth factors and integrins: latent forms of transforming growth factor-beta are ligands for the integrin alphavbeta1. <i>Molecular Biology of the Cell</i> , <b>1998</b> , 9, 2627-38	3.5	205
69	Isoform-specific activation of latent transforming growth factor beta (LTGF-beta) by reactive oxygen species. <i>Radiation Research</i> , <b>2006</b> , 166, 839-48	3.1	198
68	Regulation of the Bioavailability of TGF-beta and TGF-beta Related Proteins. <i>Cold Spring Harbor Perspectives in Biology</i> , <b>2016</b> , 8,	10.2	184

67	Bone abnormalities in latent TGF- $\beta$ binding protein (Ltbp)-3-null mice indicate a role for Ltbp-3 in modulating TGF- $\beta$ bioavailability. <i>Journal of Cell Biology</i> , <b>2002</b> , 156, 227-32	7.3	183
66	Matrix control of transforming growth factor- $\beta$ function. <i>Journal of Biochemistry</i> , <b>2012</b> , 152, 321-9	3.1	178
65	Extracellular microfibrils: contextual platforms for TGF $\beta$ and BMP signaling. <i>Current Opinion in Cell Biology</i> , <b>2009</b> , 21, 616-22	9	173
64	Urokinase-type plasminogen activator mediates basic fibroblast growth factor-induced bovine endothelial cell migration independent of its proteolytic activity. <i>Journal of Cellular Physiology</i> , <b>1992</b> , 150, 258-63	7	165
63	Fibronectin is required for integrin $\alpha$ v $\beta$ 6-mediated activation of latent TGF- $\beta$ complexes containing LTBP-1. <i>FASEB Journal</i> , <b>2005</b> , 19, 1798-808	0.9	141
62	Cell signaling events: a view from the matrix. <i>Matrix Biology</i> , <b>2003</b> , 22, 101-7	11.4	136
61	Mechanism of action of angiostatic steroids: suppression of plasminogen activator activity via stimulation of plasminogen activator inhibitor synthesis. <i>Journal of Cellular Physiology</i> , <b>1993</b> , 155, 568-78		134
60	Proteolytic control of growth factor availability. <i>Apmis</i> , <b>1999</b> , 107, 80-5	3.4	132
59	Specificity of latent TGF- $\beta$ binding protein (LTBP) incorporation into matrix: role of fibrillins and fibronectin. <i>Journal of Cellular Physiology</i> , <b>2012</b> , 227, 3828-36	7	131
58	Latent transforming growth factor $\beta$ -binding proteins and fibulins compete for fibrillin-1 and exhibit exquisite specificities in binding sites. <i>Journal of Biological Chemistry</i> , <b>2009</b> , 284, 16872-16881	5.4	130
57	Release of basic fibroblast growth factor, an angiogenic factor devoid of secretory signal sequence: a trivial phenomenon or a novel secretion mechanism?. <i>Journal of Cellular Biochemistry</i> , <b>1991</b> , 47, 201-7	4.7	123
56	The integrin $\alpha$ v $\beta$ 6 binds and activates latent TGF $\beta$ 3. <i>FEBS Letters</i> , <b>2002</b> , 511, 65-8	3.8	120
55	Identification and characterization of an eight-cysteine repeat of the latent transforming growth factor- $\beta$ binding protein-1 that mediates bonding to the latent transforming growth factor- $\beta$ 1. <i>Journal of Biological Chemistry</i> , <b>1996</b> , 271, 29891-6	5.4	118
54	Mutations in LTBP4 cause a syndrome of impaired pulmonary, gastrointestinal, genitourinary, musculoskeletal, and dermal development. <i>American Journal of Human Genetics</i> , <b>2009</b> , 85, 593-605	11	111
53	Extracellular matrix regulation of growth factor and protease activity. <i>Current Opinion in Cell Biology</i> , <b>1991</b> , 3, 817-23	9	108
52	Latent TGF- $\beta$ binding protein 4 promotes elastic fiber assembly by interacting with fibulin-5. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 2852-7	11.5	106
51	In vitro and in vivo evidence for shear-induced activation of latent transforming growth factor- $\beta$ 1. <i>Blood</i> , <b>2008</b> , 112, 3650-60	2.2	106
50	LTBPs, more than just an escort service. <i>Journal of Cellular Biochemistry</i> , <b>2012</b> , 113, 410-8	4.7	100

49	Mechanism of retinoid-induced activation of latent transforming growth factor-beta in bovine endothelial cells. <i>Journal of Cellular Physiology</i> , <b>1993</b> , 155, 323-32	7	96
48	Unchaining the beast; insights from structural and evolutionary studies on TGFβ secretion, sequestration, and activation. <i>Cytokine and Growth Factor Reviews</i> , <b>2013</b> , 24, 355-72	17.9	83
47	Perturbation of transforming growth factor (TGF)-beta1 association with latent TGF-beta binding protein yields inflammation and tumors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 18758-63	11.5	83
46	Long form of latent TGF-beta binding protein 1 (Ltbp1L) is essential for cardiac outflow tract septation and remodeling. <i>Development (Cambridge)</i> , <b>2007</b> , 134, 3723-32	6.6	69
45	The latent transforming growth factor-beta-binding protein-1 promotes in vitro differentiation of embryonic stem cells into endothelium. <i>Molecular Biology of the Cell</i> , <b>2000</b> , 11, 4295-308	3.5	66
44	Long-term culture of human bone marrow stromal cells in the presence of basic fibroblast growth factor. <i>Growth Factors</i> , <b>1990</b> , 3, 231-6	1.6	63
43	Lung alveolar septation defects in Ltbp-3-null mice. <i>American Journal of Pathology</i> , <b>2005</b> , 167, 419-28	5.8	54
42	A wound healing model using healing-impaired diabetic mice. <i>Journal of Dermatology</i> , <b>1992</b> , 19, 673-5	1.6	54
41	Dual functions for LTBP in lung development: LTBP-4 independently modulates elastogenesis and TGF-beta activity. <i>Journal of Cellular Physiology</i> , <b>2009</b> , 219, 14-22	7	51
40	Amino acid requirements for formation of the TGF-beta-latent TGF-beta binding protein complexes. <i>Journal of Molecular Biology</i> , <b>2005</b> , 345, 175-86	6.5	50
39	TGF-β Structure, Function, and Formation. <i>Thrombosis and Haemostasis</i> , <b>1993</b> , 70, 177-179	7	48
38	F-spondin, a neuroregulatory protein, is up-regulated in osteoarthritis and regulates cartilage metabolism via TGF-beta activation. <i>FASEB Journal</i> , <b>2009</b> , 23, 79-89	0.9	46
37	LTBPs in biology and medicine: LTBP diseases. <i>Matrix Biology</i> , <b>2018</b> , 71-72, 90-99	11.4	43
36	Pulsed Electromagnetic Field Regulates MicroRNA 21 Expression to Activate TGF-β Signaling in Human Bone Marrow Stromal Cells to Enhance Osteoblast Differentiation. <i>Stem Cells International</i> , <b>2017</b> , 2017, 2450327	5	43
35	Solution structure of the third TB domain from LTBP1 provides insight into assembly of the large latent complex that sequesters latent TGF-beta. <i>Journal of Molecular Biology</i> , <b>2003</b> , 334, 281-91	6.5	43
34	Long form of latent TGF-β binding protein 1 (Ltbp1L) regulates cardiac valve development. <i>Developmental Dynamics</i> , <b>2011</b> , 240, 176-87	2.9	42
33	Bimodal relationship between invasion of the amniotic membrane and plasminogen activator activity. <i>International Journal of Cancer</i> , <b>1990</b> , 46, 56-60	7.5	40
32	Latent TGF-beta binding protein-3 (LTBP-3) requires binding to TGF-beta for secretion. <i>FEBS Letters</i> , <b>2002</b> , 517, 277-80	3.8	39

31	Isolation of the major serine protease inhibitor from the 5-day serum-free conditioned medium of human embryonic lung cells and demonstration that it is fetuin. <i>Journal of Cellular Physiology</i> , <b>1981</b> , 109, 1-15	7	37
30	Expression of truncated latent TGF-beta-binding protein modulates TGF-beta signaling. <i>Journal of Cell Science</i> , <b>2005</b> , 118, 2177-87	5.3	36
29	LTBP3 Pathogenic Variants Predispose Individuals to Thoracic Aortic Aneurysms and Dissections. <i>American Journal of Human Genetics</i> , <b>2018</b> , 102, 706-712	11	34
28	Function of latent TGFβ-binding protein 4 and fibulin 5 in elastogenesis and lung development. <i>Journal of Cellular Physiology</i> , <b>2015</b> , 230, 226-36	7	33
27	Tumor cells secrete an angiogenic factor that stimulates basic fibroblast growth factor and urokinase expression in vascular endothelial cells. <i>Journal of Cellular Physiology</i> , <b>1994</b> , 161, 1-14	7	32
26	Genetic analysis of the contribution of LTBP-3 to thoracic aneurysm in Marfan syndrome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 14012-7	11.5	30
25	Mutations in the latent TGF-beta binding protein 3 (LTBP3) gene cause brachyolmia with amelogenesis imperfecta. <i>Human Molecular Genetics</i> , <b>2015</b> , 24, 3038-49	5.6	24
24	Studies on FGF-2: nuclear localization and function of high molecular weight forms and receptor binding in the absence of heparin. <i>Molecular Reproduction and Development</i> , <b>1994</b> , 39, 102-4; discussion 104-5	2.6	24
23	Cell density dependent effects of TGF-beta demonstrated by a plasminogen activator-based assay for TGF-beta. <i>Journal of Cellular Physiology</i> , <b>1992</b> , 152, 48-55	7	24
22	Control of lung development by latent TGF-β-binding proteins. <i>Journal of Cellular Physiology</i> , <b>2011</b> , 226, 1499-509	7	23
21	Growth retardation as well as spleen and thymus involution in latent TGF-beta binding protein (Ltbp)-3 null mice. <i>Journal of Cellular Physiology</i> , <b>2003</b> , 196, 319-25	7	22
20	Molecular cloning of the mouse Ltbp-1 gene reveals tissue specific expression of alternatively spliced forms. <i>Gene</i> , <b>2003</b> , 308, 31-41	3.8	22
19	E-selectin ligand-1 regulates growth plate homeostasis in mice by inhibiting the intracellular processing and secretion of mature TGF-beta. <i>Journal of Clinical Investigation</i> , <b>2010</b> , 120, 2474-85	15.9	21
18	Stimulation of motility in cultured bovine capillary endothelial cells by angiogenic preparations. <i>Journal of Cellular Physiology</i> , <b>1984</b> , 119, 247-54	7	20
17	LAP degradation product reflects plasma kallikrein-dependent TGF-β activation in patients with hepatic fibrosis. <i>SpringerPlus</i> , <b>2014</b> , 3, 221		18
16	Abrogation of both short and long forms of latent transforming growth factor-β-binding protein-1 causes defective cardiovascular development and is perinatally lethal. <i>Matrix Biology</i> , <b>2015</b> , 43, 61-70	11.4	15
15	Production of gastrointestinal tumors in mice by modulating latent TGF-β activation. <i>Cancer Research</i> , <b>2013</b> , 73, 459-68	10.1	15
14	Genetic suppression of inflammation blocks the tumor-promoting effects of TGF-β in gastric tissue. <i>Cancer Research</i> , <b>2014</b> , 74, 2642-51	10.1	13

13	Lipopolysaccharide inhibits activation of latent transforming growth factor-beta in bovine endothelial cells. <i>Journal of Cellular Physiology</i> , <b>1995</b> , 163, 210-9	7	13
12	Isolation and cytokine analysis of lamina propria lymphocytes from mucosal biopsies of the human colon. <i>Journal of Immunological Methods</i> , <b>2015</b> , 421, 27-35	2.5	12
11	Noninvasive diagnosis and management of spontaneous intracranial hypotension in patients with marfan syndrome: Case Report and Review of the Literature. <i>Surgical Neurology International</i> , <b>2014</b> , 5, 8	1	12
10	Studies on the control of plasminogen activator production by cultured human embryonic lung cells: requirements for inhibition by corticosteroids. <i>Journal of Cellular Physiology</i> , <b>1980</b> , 105, 417-22	7	12
9	Tumorigenicity of revertant from an SV40-transformed line. <i>Journal of Supramolecular Structure</i> , <b>1979</b> , 11, 539-46		12
8	Enamel and dental anomalies in latent-transforming growth factor beta-binding protein 3 mutant mice. <i>European Journal of Oral Sciences</i> , <b>2017</b> , 125, 8-17	2.3	11
7	Characterization of fibroblast growth factor-2 binding to ribosomes. <i>Growth Factors</i> , <b>1996</b> , 13, 219-28	1.6	9
6	L(59) TGF- $\beta$ LAP degradation products serve as a promising blood biomarker for liver fibrogenesis in mice. <i>Fibrogenesis and Tissue Repair</i> , <b>2015</b> , 8, 17		8
5	Intraarticular injection of liposomal adenosine reduces cartilage damage in established murine and rat models of osteoarthritis. <i>Scientific Reports</i> , <b>2020</b> , 10, 13477	4.9	7
4	Bone matrix to growth factors: location, location, location. <i>Journal of Cell Biology</i> , <b>2010</b> , 190, 949-51	7.3	5
3	Latent TGF- $\beta$ -binding protein-1 deficiency decreases female fertility. <i>Biochemical and Biophysical Research Communications</i> , <b>2017</b> , 482, 1387-1392	3.4	4
2	The role of LTBP1 in TGF $\beta$ signaling. <i>Developmental Dynamics</i> , <b>2021</b> ,	2.9	3
1	Osteoblastic monocyte chemoattractant protein-1 (MCP-1) mediation of parathyroid hormone- $\alpha$ anabolic actions in bone implicates TGF- $\beta$ signaling. <i>Bone</i> , <b>2021</b> , 143, 115762	4.7	3