

Jerzy Palka

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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.

114 papers	1,974 citations	23 h-index	37 g-index
123 ext. papers	2,259 ext. citations	4.4 avg, IF	4.85 L-index

#	Paper	IF	Citations
114	Prolidase activity in fibroblasts is regulated by interaction of extracellular matrix with cell surface integrin receptors. <i>Journal of Cellular Biochemistry</i> , 1997 , 67, 166-75	4.7	130
113	Prolidase-dependent regulation of collagen biosynthesis. <i>Amino Acids</i> , 2008 , 35, 731-8	3.5	118
112	Scorbutic and fasted guinea pig sera contain an insulin-like growth factor I-reversible inhibitor of proteoglycan and collagen synthesis in chick embryo chondrocytes and adult human skin fibroblasts. <i>Archives of Biochemistry and Biophysics</i> , 1990 , 276, 85-93	4.1	82
111	Serum and tissue level of insulin-like growth factor-I (IGF-I) and IGF-I binding proteins as an index of pancreatitis and pancreatic cancer. <i>International Journal of Experimental Pathology</i> , 2002 , 83, 239-45	2.8	65
110	Amino Acid Profiles of Serum and Urine in Search for Prostate Cancer Biomarkers: a Pilot Study. <i>International Journal of Medical Sciences</i> , 2017 , 14, 1-12	3.7	58
109	Enhanced prolidase activity and decreased collagen content in breast cancer tissue. <i>International Journal of Experimental Pathology</i> , 2006 , 87, 289-96	2.8	49
108	Inhibition of collagen and DNA biosynthesis by a novel amidine analogue of chlorambucil is accompanied by deregulation of $\alpha 1$ -integrin and IGF-I receptor signaling in MDA-MB 231 cells. <i>Environmental Toxicology and Pharmacology</i> , 2005 , 20, 118-24	5.8	48
107	Differential effects of estradiol and raloxifene on collagen biosynthesis in cultured human skin fibroblasts. <i>International Journal of Molecular Medicine</i> , 2003 , 12, 803-9	4.4	47
106	Constituents of Propolis: Chrysin, Caffeic Acid, -Coumaric Acid, and Ferulic Acid Induce PRODH/POX-Dependent Apoptosis in Human Tongue Squamous Cell Carcinoma Cell (CAL-27). <i>Frontiers in Pharmacology</i> , 2018 , 9, 336	5.6	45
105	The potential mechanism for glutamine-induced collagen biosynthesis in cultured human skin fibroblasts. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2001 , 130, 23-32	2.3	44
104	Elevated activity of low molecular weight insulin-like growth factor-binding proteins in sera of vitamin C-deficient and fasted guinea pigs. <i>Endocrinology</i> , 1991 , 128, 1769-79	4.8	43
103	Proline-dependent regulation of collagen metabolism. <i>Cellular and Molecular Life Sciences</i> , 2020 , 77, 1911-1918	10.3	42
102	Hyaluronic acid counteracts interleukin-1-induced inhibition of collagen biosynthesis in cultured human chondrocytes. <i>Pharmacological Research</i> , 2006 , 54, 275-81	10.2	40
101	Collagen metabolism disturbances are accompanied by an increase in prolidase activity in lung carcinoma planoepitheliale. <i>International Journal of Experimental Pathology</i> , 2000 , 81, 341-347	2.8	39
100	Fibroblast chemotaxis and prolidase activity modulation by insulin-like growth factor II and mannose 6-phosphate. <i>Molecular and Cellular Biochemistry</i> , 1997 , 168, 177-83	4.2	35
99	Differential effects of echistatin and thrombin on collagen production and prolidase activity in human dermal fibroblasts and their possible implication in beta1-integrin-mediated signaling. <i>Pharmacological Research</i> , 2005 , 51, 217-21	10.2	34
98	Betulinic acid inhibits the expression of hypoxia-inducible factor 1alpha and vascular endothelial growth factor in human endometrial adenocarcinoma cells. <i>Molecular and Cellular Biochemistry</i> , 2010 , 340, 15-20	4.2	33

97	Insulin-like growth factor I-dependent regulation of prolidase activity in cultured human skin fibroblasts. <i>Molecular and Cellular Biochemistry</i> , 1998 , 189, 177-83	4.2	32
96	Protective effect of hyaluronic acid on interleukin-1-induced deregulation of beta1-integrin and insulin-like growth factor-I receptor signaling and collagen biosynthesis in cultured human chondrocytes. <i>Molecular and Cellular Biochemistry</i> , 2008 , 308, 57-64	4.2	31
95	Similar hormonal changes in sera from scorbutic and fasted (vitamin C-supplemented) guinea pigs, including decreased IGF-I and appearance of an IGF-I reversible mitogenic inhibitor. <i>Growth Factors</i> , 1989 , 1, 147-56	1.6	28
94	Collagen metabolism disturbances are accompanied by an increase in prolidase activity in lung carcinoma planoepitheliale. <i>International Journal of Experimental Pathology</i> , 2000 , 81, 341-7	2.8	27
93	Phosphorylation of prolidase increases the enzyme activity. <i>Molecular and Cellular Biochemistry</i> , 2001 , 220, 95-101	4.2	26
92	Potential role of pyrroline 5-carboxylate in regulation of collagen biosynthesis in cultured human skin fibroblasts. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2000 , 125, 265-71	2.6	26
91	Prolidase-dependent regulation of TGF β (corrected) and TGF β receptor expressions in human skin fibroblasts. <i>European Journal of Pharmacology</i> , 2010 , 649, 115-9	5.3	23
90	Prolidase in human breast cancer MCF-7 cells. <i>Cancer Letters</i> , 1998 , 127, 63-70	9.9	23
89	Decrease in the glycosaminoglycan content in the skin of diabetic rats. The role of IGF-I, IGF-binding proteins and proteolytic activity. <i>Molecular and Cellular Biochemistry</i> , 1996 , 154, 1-8	4.2	23
88	The effect of hyaluronic acid on interleukin-1-induced deregulation of collagen metabolism in cultured human skin fibroblasts. <i>Pharmacological Research</i> , 2005 , 51, 473-7	10.2	22
87	Prolidase-independent mechanism of camptothecin-induced inhibition of collagen biosynthesis in cultured human skin fibroblasts. <i>Journal of Biochemistry</i> , 2007 , 141, 287-92	3.1	21
86	The mechanism for anthracycline-induced inhibition of collagen biosynthesis. <i>European Journal of Pharmacology</i> , 2001 , 411, 17-25	5.3	21
85	Prolidase-proline dehydrogenase/proline oxidase-collagen biosynthesis axis as a potential interface of apoptosis/autophagy. <i>BioFactors</i> , 2016 , 42, 341-8	6.1	20
84	Metalloproteinases, insulin-like growth factor-I and its binding proteins in aortic aneurysm. <i>International Journal of Experimental Pathology</i> , 2004 , 85, 159-64	2.8	20
83	Defects of type I procollagen metabolism correlated with decrease of prolidase activity in a case of lethal osteogenesis imperfecta. <i>FEBS Journal</i> , 2001 , 268, 2172-8		20
82	Melanin potentiates gentamicin-induced inhibition of collagen biosynthesis in human skin fibroblasts. <i>European Journal of Pharmacology</i> , 2002 , 446, 7-13	5.3	19
81	The mechanism of daunorubicin-induced inhibition of prolidase activity in human skin fibroblasts and its implication to impaired collagen biosynthesis. <i>Experimental and Toxicologic Pathology</i> , 2000 , 52, 149-55		18
80	An accumulation of IGF-I and IGF-binding proteins in human umbilical cord. <i>Molecular and Cellular Biochemistry</i> , 2000 , 206, 133-9	4.2	18

79	α 5 β 1-integrin Ligands: Abciximab and Eptifibatide as Proapoptotic Factors in MCF-7 Human Breast Cancer Cells. <i>Current Drug Targets</i> , 2015 , 16, 1429-37	3	18
78	Understanding the role of key amino acids in regulation of proline dehydrogenase/proline oxidase (prodh/pox)-dependent apoptosis/autophagy as an approach to targeted cancer therapy. <i>Molecular and Cellular Biochemistry</i> , 2020 , 466, 35-44	4.2	17
77	The effect of Telmisartan on collagen biosynthesis depends on the status of estrogen activation in breast cancer cells. <i>European Journal of Pharmacology</i> , 2010 , 628, 51-6	5.3	17
76	Novel amidine analogue of melphalan as a specific multifunctional inhibitor of growth and metabolism of human breast cancer cells. <i>Biochemical Pharmacology</i> , 2006 , 72, 320-31	6	17
75	Salt stimulation of serum insulin-like growth factor binding protein activity. <i>Analytical Biochemistry</i> , 1988 , 175, 442-9	3.1	16
74	Prolidase Stimulates Proliferation and Migration through Activation of the PI3K/Akt/mTOR Signaling Pathway in Human Keratinocytes. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	14
73	Differential effect of platelet-rich plasma fractions on α 1-integrin signaling, collagen biosynthesis, and prolidase activity in human skin fibroblasts. <i>Drug Design, Development and Therapy</i> , 2017 , 11, 1849-1857	4.4	14
72	Pre-eclampsia-induced alterations in IGF-I of human umbilical cord. <i>European Journal of Clinical Investigation</i> , 2000 , 30, 389-96	4.6	14
71	Melanin potentiates daunorubicin-induced inhibition of collagen biosynthesis in human skin fibroblasts. <i>European Journal of Pharmacology</i> , 2001 , 419, 139-45	5.3	13
70	Estrogen-dependent regulation of prolidase activity in breast cancer MCF-7 cells. <i>Gynecological Endocrinology</i> , 1999 , 13, 166-74	2.4	13
69	Proline Oxidase (POX) as A Target for Cancer Therapy. <i>Current Drug Targets</i> , 2015 , 16, 1464-9	3	13
68	Prolidase activity disregulation in chronic pancreatitis and pancreatic cancer. <i>Hepato-Gastroenterology</i> , 2002 , 49, 1699-703		13
67	Exogenous proline stimulates type I collagen and HIF-1 α expression and the process is attenuated by glutamine in human skin fibroblasts. <i>Molecular and Cellular Biochemistry</i> , 2017 , 435, 197-206	4.2	12
66	Amidine analogue of chlorambucil is a stronger inhibitor of protein and DNA synthesis in breast cancer MCF-7 cells than is the parent drug. <i>European Journal of Pharmacology</i> , 2004 , 492, 95-101	5.3	12
65	Inhibitory effect of acetylsalicylic acid on metalloproteinase activity in human lung adenocarcinoma at different stages of differentiation. <i>European Journal of Pharmacology</i> , 2002 , 443, 1-6	5.3	12
64	Proline analogue of melphalan as a prodrug susceptible to the action of prolidase in breast cancer MDA-MB 231 cells. <i>Il Farmaco</i> , 2003 , 58, 1113-9		12
63	Differences and similarities in the phenomenon of NETs formation in oral inflammation and in oral squamous cell carcinoma. <i>Journal of Cancer</i> , 2018 , 9, 1958-1965	4.5	12
62	Thrombin-dependent modulation of α 1-integrin-mediated signaling up-regulates prolidase and HIF-1 α through p-FAK in colorectal cancer cells. <i>Molecular and Cellular Biochemistry</i> , 2012 , 361, 235-41	4.2	11

61	The mechanism of hydralazine-induced collagen biosynthesis in cultured fibroblasts. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2013 , 386, 303-9	3.4	11
60	Glucose-depleted medium reduces the collagen content of human skin fibroblast cultures. <i>Molecular and Cellular Biochemistry</i> , 2007 , 305, 79-85	4.2	11
59	Decreased expression of the insulin-like growth factor-I-binding protein-1 (IGFBP-1) phosphoisoform in pre-eclamptic Wharton's jelly and its role in the regulation of collagen biosynthesis. <i>Clinical Chemistry and Laboratory Medicine</i> , 2004 , 42, 175-81	5.9	11
58	Plasma and liver amino acids in rats after administration of ethanol or acetaldehyde. <i>Biochemical Medicine and Metabolic Biology</i> , 1986 , 36, 239-43		11
57	Acetylsalicylic acid-dependent inhibition of collagen biosynthesis and beta1-integrin signaling in cultured fibroblasts. <i>Medical Science Monitor</i> , 2004 , 10, BR175-9	3.2	11
56	HIF-1 Is a Key Factor in Bile Duct Ligation-Induced Liver Fibrosis in Rats. <i>Journal of Investigative Surgery</i> , 2017 , 30, 41-46	1.2	10
55	Functional Consequences of Intracellular Proline Levels Manipulation Affecting PRODH/POX-Dependent Pro-Apoptotic Pathways in a Novel in Vitro Cell Culture Model. <i>Cellular Physiology and Biochemistry</i> , 2017 , 43, 670-684	3.9	10
54	Preeclampsia is associated with alterations in insulin-like growth factor (IGF)-1 and IGF-binding proteins in Wharton's jelly of the umbilical cord. <i>Clinical Chemistry and Laboratory Medicine</i> , 2000 , 38, 603-8	5.9	10
53	The mechanism of oxythiamine-induced collagen biosynthesis in cultured fibroblasts. <i>Molecular and Cellular Biochemistry</i> , 2015 , 403, 51-60	4.2	9
52	Cross-talk between integrin receptor and insulin-like growth factor receptor in regulation of collagen biosynthesis in cultured fibroblasts. <i>Advances in Medical Sciences</i> , 2013 , 58, 292-7	2.8	9
51	Acetylenic derivative of betulin induces apoptosis in endometrial adenocarcinoma cell line. <i>Biomedicine and Pharmacotherapy</i> , 2017 , 95, 429-436	7.5	9
50	The effect of prolactin and estrogen cross-talk on prolidase- dependent signaling in MCF-7 cells. <i>Neoplasia</i> , 2013 , 60, 355-63	3.3	9
49	Estrogen-dependent regulation of PPAR-gamma signaling on collagen biosynthesis in adenocarcinoma endometrial cells. <i>Neoplasia</i> , 2009 , 56, 448-54	3.3	9
48	Butyrate-induced collagen biosynthesis in cultured fibroblasts is independent on alpha2beta1 integrin signalling and undergoes through IGF-I receptor cascade. <i>Molecular and Cellular Biochemistry</i> , 2006 , 286, 147-52	4.2	9
47	Decreased biosynthesis of glycosaminoglycans in the skin of rats with chronic diabetes mellitus. <i>Experimental and Toxicologic Pathology</i> , 1999 , 51, 239-43		9
46	Oxidative stress induces IGF-I receptor signaling disturbances in cultured human dermal fibroblasts. A possible mechanism for collagen biosynthesis inhibition. <i>Cellular and Molecular Biology Letters</i> , 2004 , 9, 643-50	8.1	9
45	The effect of estrogen on prolidase-dependent regulation of HIF-1 expression in breast cancer cells. <i>Molecular and Cellular Biochemistry</i> , 2013 , 379, 29-36	4.2	8
44	Scutellarin-dependent inhibition of collagen biosynthesis in cultured fibroblasts. <i>Natural Product Research</i> , 2011 , 25, 1789-95	2.3	8

43	Effect of melanin on netilmicin-induced inhibition of collagen biosynthesis in human skin fibroblasts. <i>Bioorganic and Medicinal Chemistry</i> , 2006 , 14, 8155-61	3.4	8
42	Doxycycline-induced inhibition of prolydase activity in human skin fibroblasts and its involvement in impaired collagen biosynthesis. <i>European Journal of Pharmacology</i> , 2001 , 430, 25-31	5.3	8
41	Age-dependent changes in glycosaminoglycan content in the skin of fasted rats. A possible mechanism. <i>Experimental and Toxicologic Pathology</i> , 2000 , 52, 127-31		8
40	New potential biomarkers of acetaminophen-induced hepatotoxicity. <i>Advances in Medical Sciences</i> , 2016 , 61, 325-330	2.8	7
39	Mechanism of betulinic acid inhibition of collagen biosynthesis in human endometrial adenocarcinoma cells. <i>Neoplasma</i> , 2009 , 56, 361-6	3.3	7
38	Melanin counter act puromycin-induced inhibition of collagen and DNA biosynthesis in human skin fibroblasts. <i>Life Sciences</i> , 2005 , 77, 528-38	6.8	7
37	Cytotoxicity and effect on collagen biosynthesis of proline analogue of melphalan as a prolydase-convertible prodrug in cultured human skin fibroblasts. <i>Il Farmaco</i> , 2001 , 56, 701-6		7
36	Phenotype variability in a daughter and father with mild osteogenesis imperfecta correlated with collagen and prolydase levels in cultured skin fibroblasts. <i>Annals of Clinical Biochemistry</i> , 2005 , 42, 80-4	2.2	7
35	A novel plausible mechanism of NSAIDs-induced apoptosis in cancer cells: the implication of proline oxidase and peroxisome proliferator-activated receptor. <i>Pharmacological Reports</i> , 2020 , 72, 1152-1160	3.9	7
34	Hyaluronic acid abrogates nitric oxide-dependent stimulation of collagen degradation in cultured human chondrocytes. <i>Pharmacological Research</i> , 2009 , 60, 46-9	10.2	6
33	Estrogen receptor beta participate in the regulation of metabolism of extracellular matrix in estrogen alpha negative breast cancer. <i>Folia Histochemica Et Cytobiologica</i> , 2009 , 47, S107-12	1.4	6
32	Capsaicin up-regulates pro-apoptotic activity of thiazolidinediones in glioblastoma cell line. <i>Biomedicine and Pharmacotherapy</i> , 2020 , 132, 110741	7.5	6
31	Collagen metabolism as a regulator of proline dehydrogenase/proline oxidase-dependent apoptosis/autophagy. <i>Amino Acids</i> , 2021 , 53, 1917-1925	3.5	6
30	UVC inhibits collagen biosynthesis through up-regulation of NF- κ B p65 signaling in cultured fibroblasts. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2013 , 129, 143-8	6.7	5
29	Prolydase dependent inhibition of collagen biosynthesis in Chinese hamster ovary cells. <i>Journal of Biochemistry</i> , 2008 , 144, 409-14	3.1	5
28	Gly511 to Ser substitution in the COL1A1 gene in osteogenesis imperfecta type III patient with increased turnover of collagen. <i>Molecular and Cellular Biochemistry</i> , 2003 , 248, 49-56	4.2	5
27	Potential role of beta 1 integrin and collagen biosynthesis in estrogen-dependent reduction of apoptosis in tamoxifen-treated breast cancer cells. <i>Gynecologic and Obstetric Investigation</i> , 2001 , 51, 248-53	2.5	5
26	Proline oxidase silencing induces proline-dependent pro-survival pathways in MCF-7 cells. <i>Oncotarget</i> , 2018 , 9, 13748-13757	3.3	5

25	Enalapril stimulates collagen biosynthesis through prolydase-dependent mechanism in cultured fibroblasts. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2015 , 388, 677-83	3.4	4
24	Phosphoenolpyruvate-dependent inhibition of collagen biosynthesis, alpha2beta1 integrin and IGF-I receptor signaling in cultured fibroblasts. <i>Molecular and Cellular Biochemistry</i> , 2008 , 315, 61-7	4.2	4
23	Acetylsalicylic acid prevents nickel-induced collagen biosynthesis in human fibroblasts. <i>Environmental Toxicology and Pharmacology</i> , 2005 , 20, 501-5	5.8	4
22	Differential effects of estradiol and raloxifene on collagen biosynthesis in cultured human skin fibroblasts. <i>International Journal of Molecular Medicine</i> , 2003 , 12, 803	4.4	4
21	Fasting-induced inhibition of collagen biosynthesis in rat skin. A possible role for phosphoenolpyruvate in this process. <i>Molecular and Cellular Biochemistry</i> , 2004 , 265, 203-8	4.2	4
20	Expression of IGF-binding protein-1 phosphoisoforms in fasted rat skin and its role in regulation of collagen biosynthesis. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2003 , 134, 703-11	2.3	4
19	Platelet-Rich Plasma Promotes the Proliferation of Human Keratinocytes via a Progression of the Cell Cycle. A Role of Prolidase. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
18	Acetylsalicylic acid as a potential regulator of prolydase-convertible pro-drugs in control and neoplastic cells. <i>Il Farmaco</i> , 2004 , 59, 679-84		3
17	An expression of IGF-binding proteins in normal and pre-eclamptic human umbilical cord serum and tissues. <i>Molecular and Cellular Biochemistry</i> , 2002 , 237, 111-7	4.2	3
16	Differential effect of fasting on IGF-BPs in serum of young and adult rats and its implication to impaired skin GAG content. <i>Molecular and Cellular Biochemistry</i> , 2000 , 205, 45-52	4.2	3
15	Overexpression of Prolidase Induces Autophagic Death in MCF-7 Breast Cancer Cells. <i>Cellular Physiology and Biochemistry</i> , 2020 , 54, 875-887	3.9	3
14	Cancers Cells in Traps? The Pathways of NETs Formation in Response to OSCC in Humans-A Pilot Study. <i>Cancer Control</i> , 2020 , 27, 1073274820960473	2.2	3
13	Development of an LC-MS Targeted Metabolomics Methodology to Study Proline Metabolism in Mammalian Cell Cultures. <i>Molecules</i> , 2020 , 25,	4.8	3
12	The mechanism for differential effect of nelfinavir and indinavir on collagen metabolism in human skin fibroblasts. <i>Experimental Dermatology</i> , 2019 , 28, 845-853	4	2
11	Prolidase-dependent mechanism of (Z)-8,9-epoxyheptadeca-1,11,14-triene-induced inhibition of collagen biosynthesis in cultured human skin fibroblasts. <i>Natural Product Research</i> , 2016 , 30, 665-71	2.3	2
10	Combined therapy with disintegrin and melphalan as a new strategy in inhibition of endometrial cancer cell line (Ishikawa) growth. <i>Folia Histochemica Et Cytobiologica</i> , 2009 , 47, S121-5	1.4	2
9	Verapamil and collagenase differentially affect collagen metabolism in experimental model of Peyronie's disease. <i>Molecular and Cellular Probes</i> , 2020 , 49, 101488	3.3	2
8	Extracellular Prolidase (PEPD) Induces Anabolic Processes through EGFR, Integrin, and IGF-1R Signaling Pathways in an Experimental Model of Wounded Fibroblasts. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	2

7	PRODH/POX-Dependent Celecoxib-Induced Apoptosis in MCF-7 Breast Cancer. <i>Pharmaceuticals</i> , 2021 , 14,	5.2	2
6	Estrogenic and antiestrogenic effects of raloxifene on collagen metabolism in breast cancer MCF-7 cells. <i>Gynecological Endocrinology</i> , 2001 , 15, 225-233	2.4	2
5	LC-QTOF-MS and H NMR Metabolomics Verifies Potential Use of Greater Omentum for Biofilm Eradication in Rats. <i>Pathogens</i> , 2020 , 9,	4.5	1
4	4Tchlorodiazepam--agonist of peripheral benzodiazepine receptors as a protecting factor in IL-1 induced deregulation of collagen biosynthesis in cultured human chondrocytes. <i>European Journal of Pharmacology</i> , 2010 , 647, 31-6	5.3	1
3	Inhibition of collagen biosynthesis and increases in low molecular weight IGF-I binding proteins in the skin of fasted rats. <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , 2000 , 127, 49-59		1
2	Proline oxidase silencing inhibits p53-dependent apoptosis in MCF-7 breast cancer cells. <i>Amino Acids</i> , 2021 , 53, 1943-1956	3.5	1
1	Recombinant Prolidase Activates EGFR-Dependent Cell Growth in an Experimental Model of Inflammation in HaCaT Keratinocytes. Implication for Wound Healing.. <i>Frontiers in Molecular Biosciences</i> , 2022 , 9, 876348	5.6	1