J Geoffrey Pickering

List of Publications by Year in descending order

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121 papers	5,837 citations	66250 44 h-index	90395 73 g-index
122	122	122	7620
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Natural products in regeneration. , 2022, , 419-437.		1
2	Hyperpolarized 129Xe Pulmonary MRI and Asymptomatic Atrial Septal Defect. Chest, 2022, 161, e199-e202.	0.4	5
3	Arteriolar dysgenesis in ischemic, regenerating skeletal muscle revealed by automated micro-morphometry, computational modeling, and perfusion analysis. American Journal of Physiology - Heart and Circulatory Physiology, 2022, , .	1.5	0
4	Imaging of Glycosaminoglycans in Ascending Aortic Aneurysms With Chemical Exchange Saturation TransferÂMRI. JACC: Cardiovascular Imaging, 2022, 15, 1670-1672.	2.3	1
5	Regenerated Microvascular Networks in Ischemic Skeletal Muscle. Frontiers in Physiology, 2021, 12, 662073.	1.3	4
6	Low-flow intussusception and metastable VEGFR2 signaling launch angiogenesis in ischemic muscle. Science Advances, 2021, 7, eabg9509.	4.7	9
7	Systematic Interrogation of Angiogenesis in the Ischemic Mouse Hind Limb. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 2454-2467.	1.1	16
8	Putative Autoantigen Leiomodin-1 Is Expressed in the Human Brain and in the Membrane Fraction of Newly Formed Neurons. Pathogens, 2020, 9, 1036.	1.2	11
9	Obstruction of Small Arterioles in Patients with Critical Limb Ischemia due to Partial Endothelial-to-Mesenchymal Transition. IScience, 2020, 23, 101251.	1.9	16
10	3D vessel-wall virtual histology of whole-body perfused mice using a novel heavy element stain. Scientific Reports, 2019, 9, 698.	1.6	5
11	Vitamin D intervention does not improve vascular regeneration in diet-induced obese male mice with peripheral ischemia. Journal of Nutritional Biochemistry, 2019, 70, 65-74.	1.9	6
12	Seno-destructive smooth muscle cells in the ascending aorta of patients with bicuspid aortic valve disease. EBioMedicine, 2019, 43, 54-66.	2.7	38
13	Collagen Prolyl Hydroxylases Are Bifunctional Growth Regulators in Melanoma. Journal of Investigative Dermatology, 2019, 139, 1118-1126.	0.3	29
14	Fortifying Angiogenesis in Ischemic Muscle with FGF9‣oaded Electrospun Poly(Ester Amide) Fibers. Advanced Healthcare Materials, 2019, 8, e1801294.	3.9	19
15	An assessment of K _{IR} channel function in human cerebral arteries. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H794-H800.	1.5	10
16	[¹⁸ F]FDG cardiac PET imaging in a canine model of radiation-induced cardiovascular disease associated with breast cancer radiotherapy. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 316, H586-H595.	1.5	12
17	Bempedoic Acid Lowers Low-Density Lipoprotein Cholesterol and Attenuates Atherosclerosis in Low-Density Lipoprotein Receptor–Deficient (<i>LDLR</i> ^{+/Ⱐ} and <i>LDLR</i>) Tj ETQq1 1 0.7	784314 rgE 1.1	T /Overlock
18	Aortic smooth muscle cells and myocardial infarction: Does the ascending aorta feel a heart attack?. Atherosclerosis, 2018, 271, 232-234.	0.4	0

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19	Cardiac-Referenced Leukocyte Telomere Length and Outcomes After Cardiovascular Surgery. JACC Basic To Translational Science, 2018, 3, 591-600.	1.9	10
20	Nicotinamide Riboside Maintains Cell Survival and DNA Integrity During Acute Surges in Oxidative and Hemodynamic Aortic Stress. Atherosclerosis Supplements, 2018, 32, 113-114.	1.2	0
21	Effects of Low Dose Niacin and Vitamin D on Vascular Regeneration Under Lipotoxic Conditions. Atherosclerosis Supplements, 2018, 32, 121.	1.2	Ο
22	Segmentation of digitized histological sections for quantification of the muscularized vasculature in the mouse hind limb. Journal of Microscopy, 2017, 266, 89-103.	0.8	3
23	Four-Dimensional Microvascular Analysis Reveals That Regenerative Angiogenesis in Ischemic Muscle Produces a Flawed Microcirculation. Circulation Research, 2017, 120, 1453-1465.	2.0	57
24	Differentiation of arterioles from venules in mouse histology images using machine learning. Journal of Medical Imaging, 2017, 4, 021104.	0.8	8
25	Nicotinamide Phosphoribosyltransferase in Smooth Muscle Cells Maintains Genome Integrity, Resists Aortic Medial Degeneration, and Is Suppressed in Human Thoracic Aortic Aneurysm Disease. Circulation Research, 2017, 120, 1889-1902.	2.0	51
26	Concurrent and Sustained Delivery of FGF2 and FGF9 from Electrospun Poly(ester amide) Fibrous Mats for Therapeutic Angiogenesis. Tissue Engineering - Part A, 2016, 22, 584-596.	1.6	17
27	Applying Atherosclerotic Risk Prevention Guidelines to Elderly Patients: A Bridge Too Far?. Canadian Journal of Cardiology, 2016, 32, 598-602.	0.8	2
28	Cellular Senescence and Vascular Disease: Novel Routes to Better Understanding and Therapy. Canadian Journal of Cardiology, 2016, 32, 612-623.	0.8	71
29	Niacin promotes revascularization and recovery of limb function in dietâ€induced obese mice with peripheral ischemia. Pharmacology Research and Perspectives, 2016, 4, e00233.	1.1	8
30	Extent of Vascular Remodeling Is Dependent on the Balance Between Estrogen Receptor α and G-Protein–Coupled Estrogen Receptor. Hypertension, 2016, 68, 1225-1235.	1.3	18
31	Aldosterone mediates metastatic spread of renal cancer <i>via</i> the G proteinâ€coupled estrogen receptor (GPER). FASEB Journal, 2016, 30, 2086-2096.	0.2	32
32	A Method for 3D Histopathology Reconstruction Supporting Mouse Microvasculature Analysis. PLoS ONE, 2015, 10, e0126817.	1.1	28
33	Collectivization of Vascular Smooth Muscle Cells via TGF-β–Cadherin-11–Dependent Adhesive Switching. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 1254-1264.	1.1	20
34	Can a Vascular Smooth Muscle–Derived Foam-Cell Really Change its Spots?. Arteriosclerosis, Thrombosis, and Vascular Biology, 2015, 35, 492-495.	1.1	14
35	Fibroblast Growth Factor 9 Imparts Hierarchy and Vasoreactivity to the Microcirculation of Renal Tumors and Suppresses Metastases. Journal of Biological Chemistry, 2015, 290, 22127-22142.	1.6	13
36	Collagenaseâ€resistant collagen promotes mouse aging and vascular cell senescence. Aging Cell, 2014, 13, 121-130.	3.0	56

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37	Threeâ€dimensional imaging of the mouse heart and vasculature using micro T and wholeâ€body perfusion of iodine or phosphotungstic acid. Contrast Media and Molecular Imaging, 2014, 9, 383-390.	0.4	32
38	3D reconstruction of digitized histological sections for vasculature quantification in the mouse hind limb. Proceedings of SPIE, 2014, , .	0.8	1
39	Peroxisome Proliferator–Activated Receptor δAgonist GW1516 Attenuates Diet-Induced Aortic Inflammation, Insulin Resistance, and Atherosclerosis in Low-Density Lipoprotein Receptor Knockout Mice. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 52-60.	1.1	47
40	Dual Oxidase Maturation factor 1 (DUOXA1) overexpression increases reactive oxygen species production and inhibits murine muscle satellite cell differentiation. Cell Communication and Signaling, 2014, 12, 5.	2.7	37
41	Controlled Delivery of Fibroblast Growth Factor-9 from Biodegradable Poly(ester amide) Fibers for Building Functional Neovasculature. Pharmaceutical Research, 2014, 31, 3335-3347.	1.7	23
42	Advances in Growth Factor Delivery for Therapeutic Angiogenesis. Journal of Vascular Research, 2013, 50, 35-51.	0.6	51
43	Quaking, an RNA-Binding Protein, Is a Critical Regulator of Vascular Smooth Muscle Cell Phenotype. Circulation Research, 2013, 113, 1065-1075.	2.0	86
44	Intrinsic directionality of migrating vascular smooth muscle cells is regulated by NAD+ biosynthesis. Journal of Cell Science, 2012, 125, 5770-5780.	1.2	21
45	The Oxysterol 24 <i>(S)</i> ,25â€Epoxycholesterol Attenuates Human Smooth Muscle–Derived Foam Cell Formation Via Reduced Lowâ€Density Lipoprotein Uptake and Enhanced Cholesterol Efflux. Journal of the American Heart Association, 2012, 1, e000810.	1.6	23
46	Directed Differentiation of Skin-Derived Precursors Into Functional Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 2938-2948.	1.1	43
47	Type I Collagen Cleavage Is Essential for Effective Fibrotic Repair after Myocardial Infarction. American Journal of Pathology, 2011, 179, 2189-2198.	1.9	20
48	Delineating the receptor mechanisms underlying the rapid vascular contractile effects of aldosterone and estradiol. Canadian Journal of Physiology and Pharmacology, 2011, 89, 655-663.	0.7	24
49	Regeneration and Aging: Regulation by Sirtuins and the NAD+ Salvage Pathway. , 2011, , 289-298.		Ο
50	Fibroblast growth factor 9 delivery during angiogenesis produces durable, vasoresponsive microvessels wrapped by smooth muscle cells. Nature Biotechnology, 2011, 29, 421-427.	9.4	107
51	Essential role for calcium waves in migration of human vascular smooth muscle cells. American Journal of Physiology - Heart and Circulatory Physiology, 2011, 301, H315-H323.	1.5	22
52	Polyploidy impairs human aortic endothelial cell function and is prevented by nicotinamide phosphoribosyltransferase. American Journal of Physiology - Cell Physiology, 2010, 298, C66-C74.	2.1	31
53	NAD+, Sirtuins, and Cardiovascular Disease. Current Pharmaceutical Design, 2009, 15, 110-117.	0.9	135
54	Nuclear Degradation of Wilms Tumor 1-associating Protein and Survivin Splice Variant Switching Underlie IGF-1-mediated Survival. Journal of Biological Chemistry, 2009, 284, 24684-24695.	1.6	24

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55	ATP-Binding Cassette Transporter A1 Expression and Apolipoprotein A-I Binding Are Impaired in Intima-Type Arterial Smooth Muscle Cells. Circulation, 2009, 119, 3223-3231.	1.6	88
56	Lipid Incorporation Inhibits Src-Dependent Assembly of Fibronectin and Type I Collagen by Vascular Smooth Muscle Cells. Circulation Research, 2009, 104, 832-841.	2.0	56
57	SIRT1 markedly extends replicative lifespan if the NAD ⁺ salvage pathway is enhanced. FEBS Letters, 2009, 583, 3081-3085.	1.3	80
58	Nicotinamide phosphoribosyltransferase imparts human endothelial cells with extended replicative lifespan and enhanced angiogenic capacity in a high glucose environment. Aging Cell, 2009, 8, 100-112.	3.0	112
59	Tenecteplase for ST-elevation myocardial infarction in a patient treated with drotrecogin alfa (activated) for severe sepsis: a case report. Journal of Medical Case Reports, 2009, 3, 109.	0.4	1
60	Integrin-Linked Kinase in the Vascular Smooth Muscle Cell Response to Injury. American Journal of Pathology, 2008, 173, 278-288.	1.9	25
61	Rapid effects of aldosterone on clonal human vascular smooth muscle cells. American Journal of Physiology - Cell Physiology, 2007, 292, C788-C794.	2.1	56
62	Extension of Human Cell Lifespan by Nicotinamide Phosphoribosyltransferase*. Journal of Biological Chemistry, 2007, 282, 10841-10845.	1.6	285
63	Increased Enzyme Activity and β-Adrenergic–Mediated Vasodilation in Subjects Expressing a Single-Nucleotide Variant of Human Adenylyl Cyclase 6. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 2657-2663.	1.1	11
64	Vascular Biology and the Sex of Flies: Regulation of Vascular Smooth Muscle Cell Proliferation by Wilms' Tumor 1–Associating Protein. Trends in Cardiovascular Medicine, 2007, 17, 230-234.	2.3	20
65	Decreased Abdominal Girth and Increased Blood Pressure Associated With a Single Nucleotide Variant of Human Adenylyl Cyclase 6. FASEB Journal, 2007, 21, A795.	0.2	0
66	PAF-receptor is preferentially expressed in a distinct synthetic phenotype of smooth muscle cells cloned from human internal thoracic artery: Functional implications in cell migration. Biochemical and Biophysical Research Communications, 2006, 346, 693-699.	1.0	7
67	Ankyrin G overexpression in Hutchinson-Gilford progeria syndrome fibroblasts identified through biological filtering of expression profiles. Journal of Human Genetics, 2006, 51, 934-942.	1.1	13
68	ALMNASplicing Mutation in Two Sisters with Severe Dunnigan-Type Familial Partial Lipodystrophy Type 2. Journal of Clinical Endocrinology and Metabolism, 2006, 91, 2689-2695.	1.8	42
69	Adenylyl Cyclase Isoform–Selective Regulation of Vascular Smooth Muscle Proliferation and Cytoskeletal Reorganization. Circulation Research, 2006, 99, 845-852.	2.0	51
70	Wilms' Tumor 1–Associating Protein Regulates the Proliferation of Vascular Smooth Muscle Cells. Circulation Research, 2006, 99, 1338-1346.	2.0	50
71	The Impact of Blunted β-Adrenergic Responsiveness on Growth Regulatory Pathways in Hypertension. Molecular Pharmacology, 2006, 69, 317-327.	1.0	8
72	Regulation of vascular smooth muscle cell function by adenylyl cyclase isoforms. FASEB Journal, 2006, 20, .	0.2	0

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73	Pre–B-Cell Colony–Enhancing Factor Regulates NAD + -Dependent Protein Deacetylase Activity and Promotes Vascular Smooth Muscle Cell Maturation. Circulation Research, 2005, 97, 25-34.	2.0	176
74	Regulation of Macrophage Cholesterol Efflux through Hydroxymethylglutaryl-CoA Reductase Inhibition. Journal of Biological Chemistry, 2005, 280, 22212-22221.	1.6	112
75	Promoter Polymorphism inPCK1(Phosphoenolpyruvate Carboxykinase Gene) Associated with Type 2 Diabetes Mellitus. Journal of Clinical Endocrinology and Metabolism, 2004, 89, 898-903.	1.8	48
76	Apolipoprotein D and Platelet-Derived Growth Factor-BB Synergism Mediates Vascular Smooth Muscle Cell Migration. Circulation Research, 2004, 95, 179-186.	2.0	32
77	Human Smooth Muscle Cell Subpopulations Differentially Accumulate Cholesteryl Ester When Exposed to Native and Oxidized Lipoproteins. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 1290-1296.	1.1	46
78	Fibroblast Growth Factor-2 and Remodeled Type I Collagen Control Membrane Protrusion in Human Vascular Smooth Muscle Cells. Journal of Biological Chemistry, 2004, 279, 35573-35582.	1.6	29
79	Stimulation of Vascular Smooth Muscle Cell Proliferation and Migration by Apolipoprotein(a) Is Dependent on Inhibition of Transforming Growth Factor-β Activation and on the Presence of Kringle IV Type 9. Journal of Biological Chemistry, 2004, 279, 55187-55195.	1.6	27
80	Vascular Smooth Muscle Cells Orchestrate the Assembly of Type I Collagen via α2β1 Integrin, RhoA, and Fibronectin Polymerization. American Journal of Pathology, 2003, 163, 1045-1056.	1.9	148
81	Cloning of a Novel Prolyl 4-Hydroxylase Subunit Expressed in the Fibrous Cap of Human Atherosclerotic Plaque. Circulation, 2003, 108, 508-511.	1.6	48
82	Plasticity of KIR channels in human smooth muscle cells from internal thoracic artery. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H2325-H2334.	1.5	32
83	Functional Linkage between the Endoplasmic Reticulum Protein Hsp47 and Procollagen Expression in Human Vascular Smooth Muscle Cells. Journal of Biological Chemistry, 2002, 277, 38571-38578.	1.6	54
84	Vascular Smooth Muscle Cells of Recipient Origin Mediate Intimal Expansion after Aortic Allotransplantation in Mice. American Journal of Pathology, 2001, 158, 1943-1947.	1.9	104
85	Enhanced detection of cardiac myocyte damage by polarized light microscopy. Cardiovascular Pathology, 2001, 10, 83-86.	0.7	6
86	Innate Diversity of Adult Human Arterial Smooth Muscle Cells. Circulation Research, 2001, 89, 517-525.	2.0	137
87	Functional receptor-channel coupling compared in contractile and proliferative human vascular smooth muscle. Journal of Cellular Physiology, 2001, 187, 244-255.	2.0	4
88	Regulation of Vascular Cell Behavior by Collagen. Circulation Research, 2001, 88, 458-459.	2.0	23
89	HSP47 Expression by Smooth Muscle Cells Is Increased During Arterial Development and Lesion Formation and Is Inhibited by Fibrillar Collagen. Arteriosclerosis, Thrombosis, and Vascular Biology, 2001, 21, 40-46.	1.1	24
90	Cell Surface-bound Collagenase-1 and Focal Substrate Degradation Stimulate the Rear Release of Motile Vascular Smooth Muscle Cells. Journal of Biological Chemistry, 2000, 275, 35384-35392.	1.6	44

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91	Heat Shock Protein 47 Is Expressed in Fibrous Regions of Human Atheroma and Is Regulated by Growth Factors and Oxidized Low-Density Lipoprotein. Circulation, 2000, 101, 1229-1233.	1.6	54
92	α5β1 Integrin Expression and Luminal Edge Fibronectin Matrix Assembly by Smooth Muscle Cells after Arterial Injury. American Journal of Pathology, 2000, 156, 453-465.	1.9	83
93	Evidence From a Novel Human Cell Clone That Adult Vascular Smooth Muscle Cells Can Convert Reversibly Between Noncontractile and Contractile Phenotypes. Circulation Research, 1999, 85, 338-348.	2.0	121
94	Angiotensin II Stimulates Collagen Synthesis in Human Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 1999, 19, 1843-1851.	1.1	102
95	CD45 modulation of CXCR1 and CXCR2 in human polymorphonuclear leukocytes. European Journal of Immunology, 1999, 29, 1467-1476.	1.6	22
96	CD45 modulation of CXCR1 and CXCR2 in human polymorphonuclear leukocytes. , 1999, 29, 1467.		4
97	Evidence for a role of collagen synthesis in arterial smooth muscle cell migration Journal of Clinical Investigation, 1998, 101, 1889-1898.	3.9	121
98	Differential expression of nonmuscle myosin II isoforms in human atherosclerotic plaque. Atherosclerosis, 1997, 130, 71-85.	0.4	15
99	Coordinated Effects of Fibroblast Growth Factor-2 on Expression of Fibrillar Collagens, Matrix Metalloproteinases, and Tissue Inhibitors of Matrix Metalloproteinases by Human Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 1997, 17, 475-482.	1.1	73
100	Fibroblast Growth Factor-2 Potentiates Vascular Smooth Muscle Cell Migration to Platelet-Derived Growth Factor. Circulation Research, 1997, 80, 627-637.	2.0	66
101	Evidence for Rapid Accumulation and Persistently Disordered Architecture of Fibrillar Collagen in Human Coronary Restenosis Lesions * *This study was supported by a grant from the Medical Research Council of Canada (MT-11715). American Journal of Cardiology, 1996, 78, 633-637.	0.7	57
102	Processing of Chimeric Antisense Oligonucleotides by Human Vascular Smooth Muscle Cells and Human Atherosclerotic Plaque. Circulation, 1996, 93, 772-780.	1.6	19
103	Intimal Thickening Develops Without Humoral Immunity in a Mouse Aortic Allograft Model of Chronic Vascular Rejection. Circulation, 1996, 94, 3079-3082.	1.6	51
104	Vascular applications of human gene therapy. Journal of Thrombosis and Thrombolysis, 1995, 1, 299-302.	1.0	4
105	Vascular Applications of Human Gene Therapy. Journal of Interventional Cardiology, 1995, 8, 373-376.	0.5	0
106	Epidermal Growth Factor Receptor–Targeted Cytotoxin Inhibits Neointimal Hyperplasia In Vivo. Circulation Research, 1995, 77, 519-529.	2.0	22
107	Use of the rabbit ear artery to serially assess foreign protein secretion after site-specific arterial gene transfer in vivo. Evidence that anatomic identification of successful gene transfer may underestimate the potential magnitude of transgene expression Circulation, 1994, 89, 785-792.	1.6	92
108	Liposome-mediated gene transfer into human vascular smooth muscle cells Circulation, 1994, 89, 13-21.	1.6	74

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109	Quantitative assessment of myocardial collagen with picrosirius red staining and circularly polarized light. Basic Research in Cardiology, 1994, 89, 397-410.	2.5	428
110	Use of human tissue specimens obtained by directional atherectomy to study restenosis. Trends in Cardiovascular Medicine, 1994, 4, 213-221.	2.3	22
111	Increased gene expression after liposome-mediated arterial gene transfer associated with intimal smooth muscle cell proliferation. In vitro and in vivo findings in a rabbit model of vascular injury Journal of Clinical Investigation, 1994, 93, 652-661.	3.9	113
112	Excimer laser-induced vasoreactivity. European Heart Journal, 1993, 14, 1394-1403.	1.0	3
113	Prevention of smooth muscle cell outgrowth from human atherosclerotic plaque by a recombinant cytotoxin specific for the epidermal growth factor receptor Journal of Clinical Investigation, 1993, 91, 724-729.	3.9	48
114	Proliferative activity in peripheral and coronary atherosclerotic plaque among patients undergoing percutaneous revascularization Journal of Clinical Investigation, 1993, 91, 1469-1480.	3.9	179
115	Smooth muscle cell outgrowth from human atherosclerotic plaque: Implications for the assessment of lesion biology. Journal of the American College of Cardiology, 1992, 20, 1430-1439.	1.2	72
116	Laser-induced dissections: Pathogenesis and implications for therapy. Journal of the American College of Cardiology, 1992, 19, 1619-1621.	1.2	37
117	Expression of transforming growth factor-beta 1 is increased in human vascular restenosis lesions Journal of Clinical Investigation, 1992, 90, 1582-1592.	3.9	355
118	Coronary capillaries in patients with congestive cardiomyopathy or angina pectoris with patent main coronary arteries. Ultrastructural morphometry of endomyocardial biopsy samples Circulation, 1991, 84, 203-210.	1.6	44
119	Fibrosis in the transplanted heart and its relation to donor ischemic time. Assessment with polarized light microscopy and digital image analysis Circulation, 1990, 81, 949-958.	1.6	106
120	Focal Right Atrial Dysplasia and Atrial Flutter in a Patient with Myotonic Dystrophy. PACE - Pacing and Clinical Electrophysiology, 1989, 12, 1317-1323.	0.5	14
121	Differential Cell Cohesiveness Expressed by Prespore and Prestalk Cells of Dictyostelium discoideum. Differentiation, 1981, 20, 22-28.	1.0	85