

Chris P M Reutelingsperger

List of Publications by Year in descending order

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93
papers

8,170
citations

76326

40
h-index

48315

88
g-index

93
all docs

93
docs citations

93
times ranked

10903
citing authors

#	ARTICLE	IF	CITATIONS
1	Annexin V-Affinity assay: A review on an apoptosis detection system based on phosphatidylserine exposure. <i>Cytometry</i> , 1998, 31, 1-9.	1.8	1,567
2	A novel assay to measure loss of plasma membrane asymmetry during apoptosis of adherent cells in culture. <i>Cytometry</i> , 1996, 24, 131-139.	1.8	451
3	Binding of vascular anticoagulant alpha (VAC alpha) to planar phospholipid bilayers. <i>Journal of Biological Chemistry</i> , 1990, 265, 4923-8.	3.4	433
4	Vascular Smooth Muscle Cell Calcification Is Mediated by Regulated Exosome Secretion. <i>Circulation Research</i> , 2015, 116, 1312-1323.	4.5	419
5	Novel Conformation-Specific Antibodies Against Matrix Γ^3 -Carboxyglutamic Acid (Gla) Protein. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005, 25, 1629-1633.	2.4	272
6	Transient expression of phosphatidylserine at cell-cell contact areas is required for myotube formation. <i>Journal of Cell Science</i> , 2001, 114, 3631-3642.	2.0	247
7	Vitamin K-dependent carboxylation of matrix Gla-protein: a crucial switch to control ectopic mineralization. <i>Trends in Molecular Medicine</i> , 2013, 19, 217-226.	6.7	244
8	Nonanticoagulant heparin prevents histone-mediated cytotoxicity in vitro and improves survival in sepsis. <i>Blood</i> , 2014, 123, 1098-1101.	1.4	242
9	Past, present, and future of annexin A5: from protein discovery to clinical applications. <i>Journal of Nuclear Medicine</i> , 2005, 46, 2035-50.	5.0	230
10	Annexin V, the regulator of phosphatidylserine-catalyzed inflammation and coagulation during apoptosis. <i>Cellular and Molecular Life Sciences</i> , 1997, 53, 527-532.	5.4	208
11	Vascular calcification in chronic kidney disease: an update. <i>Nephrology Dialysis Transplantation</i> , 2016, 31, 31-39.	0.7	203
12	Role of Vascular Smooth Muscle Cell Phenotypic Switching and Calcification in Aortic Aneurysm Formation. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 1351-1368.	2.4	203
13	Transient expression of phosphatidylserine at cell-cell contact areas is required for myotube formation. <i>Journal of Cell Science</i> , 2001, 114, 3631-42.	2.0	202
14	The Complexity of the Phospholipid Binding Protein Annexin V. <i>Thrombosis and Haemostasis</i> , 1995, 73, 172-179.	3.4	181
15	Activation during preparation of therapeutic platelets affects deterioration during storage: a comparative flow cytometric study of different production methods. <i>British Journal of Haematology</i> , 1997, 98, 86-95.	2.5	157
16	Vascular calcification: The price to pay for anticoagulation therapy with vitamin K-antagonists. <i>Blood Reviews</i> , 2012, 26, 155-166.	5.7	136
17	Vitamin K-Antagonists Accelerate Atherosclerotic Calcification and Induce a Vulnerable Plaque Phenotype. <i>PLoS ONE</i> , 2012, 7, e43229.	2.5	127
18	Cell surface exposure of phosphatidylserine during apoptosis is phylogenetically conserved. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 1998, 3, 9-16.	4.9	122

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19	Mechanisms of arterial remodeling: lessons from genetic diseases. <i>Frontiers in Genetics</i> , 2012, 3, 290.	2.3	122
20	Pro-Angiogenic Macrophage Phenotype to Promote Myocardial Repair. <i>Journal of the American College of Cardiology</i> , 2019, 73, 2990-3002.	2.8	117
21	Annexin A1 drives macrophage skewing to accelerate muscle regeneration through AMPK activation. <i>Journal of Clinical Investigation</i> , 2020, 130, 1156-1167.	8.2	112
22	Reactive Oxygen-Forming Nox5 Links Vascular Smooth Muscle Cell Phenotypic Switching and Extracellular Vesicle-Mediated Vascular Calcification. <i>Circulation Research</i> , 2020, 127, 911-927.	4.5	104
23	Patients with hypertension-associated thrombotic microangiopathy may present with complement abnormalities. <i>Kidney International</i> , 2017, 91, 1420-1425.	5.2	101
24	The realm of vitamin K dependent proteins: Shifting from coagulation toward calcification. <i>Molecular Nutrition and Food Research</i> , 2014, 58, 1620-1635.	3.3	100
25	Cloning and expression of cDNA for human vascular anticoagulant, a Ca ²⁺ -dependent phospholipid-binding protein. <i>FEBS Journal</i> , 1988, 174, 585-592.	0.2	95
26	Vascular anticoagulant beta: a novel human Ca ²⁺ /phospholipid binding protein that inhibits coagulation and phospholipase A2 activity. Its molecular cloning, expression and comparison with VAC-alpha. <i>FEBS Journal</i> , 1989, 185, 63-71.	0.2	85
27	Neutrophils and Contact Activation of Coagulation as Potential Drivers of COVID-19. <i>Circulation</i> , 2020, 142, 1787-1790.	1.6	83
28	In vitro measurement of cell death with the annexin A5 affinity assay. <i>Nature Protocols</i> , 2006, 1, 363-367.	12.0	81
29	Purification and characterization of a novel protein from bovine aorta that inhibits coagulation. Inhibition of the phospholipid-dependent factor-Xa-catalyzed prothrombin activation, through a high-affinity binding of the anticoagulant to the phospholipids. <i>FEBS Journal</i> , 1988, 173, 171-178.	0.2	73
30	C5b9 Formation on Endothelial Cells Reflects Complement Defects among Patients with Renal Thrombotic Microangiopathy and Severe Hypertension. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 2234-2243.	6.1	73
31	PAD4 takes charge during neutrophil activation: Impact of PAD4 mediated NET formation on immune-mediated disease. <i>Journal of Thrombosis and Haemostasis</i> , 2021, 19, 1607-1617.	3.8	63
32	Extracellular histone H3 levels are inversely correlated with antithrombin levels and platelet counts and are associated with mortality in sepsis patients. <i>Thrombosis Research</i> , 2015, 136, 542-547.	1.7	60
33	Visualization of cell death in vivo with the annexin A5 imaging protocol. <i>Journal of Immunological Methods</i> , 2002, 265, 123-132.	1.4	56
34	Evolution of NETosis markers and DAMPs have prognostic value in critically ill COVID-19 patients. <i>Scientific Reports</i> , 2021, 11, 15701.	3.3	56
35	Pharmacological Treatment with Annexin A1 Reduces Atherosclerotic Plaque Burden in LDLR ^{-/-} Mice on Western Type Diet. <i>PLoS ONE</i> , 2015, 10, e0130484.	2.5	54
36	Annexin A5 inhibits engulfment through internalization of PS-expressing cell membrane patches. <i>Experimental Cell Research</i> , 2006, 312, 719-726.	2.6	50

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37	The Anticoagulant and Nonanticoagulant Properties of Heparin. <i>Thrombosis and Haemostasis</i> , 2020, 120, 1371-1383.	3.4	49
38	Annexin A1 attenuates microvascular complications through restoration of Akt signalling in a murine model of type 1 diabetes. <i>Diabetologia</i> , 2018, 61, 482-495.	6.3	48
39	Ucma/GRP inhibits phosphate-induced vascular smooth muscle cell calcification via SMAD-dependent BMP signalling. <i>Scientific Reports</i> , 2018, 8, 4961.	3.3	46
40	Diagnostic and Risk Factors for Complement Defects in Hypertensive Emergency and Thrombotic Microangiopathy. <i>Hypertension</i> , 2020, 75, 422-430.	2.7	46
41	The complexity of the phospholipid binding protein Annexin V. <i>Thrombosis and Haemostasis</i> , 1995, 73, 172-9.	3.4	46
42	Identification of AnnexinA1 as an Endogenous Regulator of RhoA, and Its Role in the Pathophysiology and Experimental Therapy of Type-2 Diabetes. <i>Frontiers in Immunology</i> , 2019, 10, 571.	4.8	43
43	Preliminary in vivo evaluation of a novel ^{99m} Tc-Labeled HYNIC-cys-annexin A5 as an apoptosis imaging agent. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 3794-3798.	2.2	38
44	Targeted Imaging for Cell Death in Cardiovascular Disorders. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 476-493.	5.3	34
45	A collagen-binding protein enables molecular imaging of kidney fibrosis in vivo. <i>Kidney International</i> , 2020, 97, 609-614.	5.2	34
46	Proteomic analysis of neutrophils in ANCA-associated vasculitis reveals a dysregulation in proteinase 3-associated proteins such as annexin-A1 involved in apoptotic cell clearance. <i>Kidney International</i> , 2019, 96, 397-408.	5.2	32
47	Protective Aptitude of Annexin A1 in Arterial Neointima Formation in Atherosclerosis-Prone Mice. <i>Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2017, 37, 312-315.	2.4	28
48	Differential tissue expression of Annexin VIII in human. <i>FEBS Letters</i> , 1994, 349, 120-124.	2.8	26
49	Decreased concentration of Annexin V in Parkinsonian cerebrospinal fluid: Speculation on the underlying cause. <i>Movement Disorders</i> , 1999, 14, 1008-1010.	3.9	26
50	AnxA5 reduces plaque inflammation of advanced atherosclerotic lesions in apoE ^{-/-} mice. <i>Journal of Cellular and Molecular Medicine</i> , 2014, 18, 2117-2124.	3.6	26
51	The role of Extracellular Vesicles during CNS development. <i>Progress in Neurobiology</i> , 2021, 205, 102124.	5.7	26
52	Phagocytosis of dying chondrocytes by osteoclasts in the mouse growth plate as demonstrated by annexin-V labelling. <i>Cell and Tissue Research</i> , 2000, 301, 267-272.	2.9	25
53	Extracellular annexin-A1 promotes myeloid/granulocytic differentiation of hematopoietic stem/progenitor cells via the Ca ²⁺ /MAPK signalling transduction pathway. <i>Cell Death Discovery</i> , 2019, 5, 135.	4.7	25
54	Histone H3 Cleavage in Severe COVID-19 ICU Patients. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 694186.	3.9	25

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55	Annexin A1 restores cerebrovascular integrity concomitant with reduced amyloid- β^2 and tau pathology. <i>Brain</i> , 2021, 144, 1526-1541.	7.6	24
56	Nicotine promotes vascular calcification via intracellular Ca ²⁺ -mediated, Nox5-induced oxidative stress, and extracellular vesicle release in vascular smooth muscle cells. <i>Cardiovascular Research</i> , 2022, 118, 2196-2210.	3.8	24
57	A New Principle for Rapid Immunoassay of Proteins Based on In Situ Precipitate-Enhanced Ellipsometry. <i>Biophysical Journal</i> , 1999, 76, 2769-2776.	0.5	23
58	Circulating annexin A5 predicts mortality in patients with heart failure. <i>Journal of Internal Medicine</i> , 2016, 279, 89-97.	6.0	21
59	Presence of Cytotoxic Extracellular Histones in Machine Perfusate of Donation After Circulatory Death Kidneys. <i>Transplantation</i> , 2017, 101, e93-e101.	1.0	20
60	The GR α -ANXA1 pathway is a pathological player and a candidate target in epilepsy. <i>FASEB Journal</i> , 2019, 33, 13998-14009.	0.5	19
61	Extracellular Vesicles in CNS Developmental Disorders. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9428.	4.1	18
62	Annexin A1/Formyl Peptide Receptor Pathway Controls Uterine Receptivity to the Blastocyst. <i>Cells</i> , 2020, 9, 1188.	4.1	18
63	Annexins: key regulators of haemostasis, thrombosis, and apoptosis. <i>Thrombosis and Haemostasis</i> , 2001, 86, 413-9.	3.4	17
64	Insights into 3D Structure of ADAMTS13: A Stepping Stone towards Novel Therapeutic Treatment of Thrombotic Thrombocytopenic Purpura. <i>Thrombosis and Haemostasis</i> , 2018, 118, 028-041.	3.4	16
65	Off-target effects of oral anticoagulants – vascular effects of vitamin K antagonist and non-vitamin K antagonist oral anticoagulant dabigatran etexilate. <i>Journal of Thrombosis and Haemostasis</i> , 2021, 19, 1348-1363.	3.8	14
66	Annexin A1 attenuates cardiac diastolic dysfunction in mice with inflammatory arthritis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	14
67	Control of expression and activity of peroxisome proliferated-activated receptor β^3 by Annexin A1 on microglia during efferocytosis. <i>Cell Biochemistry and Function</i> , 2019, 37, 560-568.	2.9	13
68	Functional and Genetic Landscape of Complement Dysregulation Along the Spectrum of Thrombotic Microangiopathy and its Potential Implications on Clinical Outcomes. <i>Kidney International Reports</i> , 2021, 6, 1099-1109.	0.8	13
69	The natural course of pregnancies in women with primary atypical haemolytic uraemic syndrome and asymptomatic relatives. <i>British Journal of Haematology</i> , 2020, 190, 442-449.	2.5	12
70	Deficiency of myeloid PHD proteins aggravates atherogenesis via macrophage apoptosis and paracrine fibrotic signalling. <i>Cardiovascular Research</i> , 2022, 118, 1232-1246.	3.8	12
71	Coronary Artery Calcification. <i>JACC: Cardiovascular Imaging</i> , 2018, 11, 1324-1326.	5.3	11
72	N-glycan-mediated shielding of ADAMTS13 prevents binding of pathogenic autoantibodies in immune-mediated TTP. <i>Blood</i> , 2021, 137, 2694-2698.	1.4	11

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73	Effects of Exogenous Recombinant APC in Mouse Models of Ischemia Reperfusion Injury and of Atherosclerosis. <i>PLoS ONE</i> , 2014, 9, e101446.	2.5	10
74	Structure-Based Cyclic Glycoprotein I β -Derived Peptides Interfering with von Willebrand Factor-Binding, Affecting Platelet Aggregation under Shear. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2046.	4.1	10
75	Annexin A1 treatment prevents the evolution to fibrosis of experimental nonalcoholic steatohepatitis. <i>Clinical Science</i> , 2022, 136, 643-656.	4.3	10
76	Autocitrullination of PAD4 does not alter its enzymatic activity: In vitro and in silico studies. <i>International Journal of Biochemistry and Cell Biology</i> , 2021, 134, 105938.	2.8	8
77	Molecular Imaging of Cell Death in Tumors. Increasing Annexin A5 Size Reduces Contribution of Phosphatidylserine-Targeting Function to Tumor Uptake. <i>PLoS ONE</i> , 2014, 9, e96749.	2.5	7
78	A Dual-Labeled Annexin A5 is not Suited for SPECT Imaging of Brain Cell Death in Experimental Murine Stroke. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, e1-e7.	4.3	7
79	Connections of annexin A1 and translocator protein-18 kDa on toll like receptor stimulated BV-2 cells. <i>Experimental Cell Research</i> , 2018, 367, 282-290.	2.6	7
80	Variability of Microcirculatory Measurements in Critically Ill Patients. <i>Shock</i> , 2020, 54, 9-14.	2.1	7
81	Development of IgG, IgM, and IgA Autoantibodies Against Angiotensin Converting Enzyme 2 in Patients with COVID-19. <i>Journal of Applied Laboratory Medicine</i> , 2022, 7, 382-386.	1.3	6
82	Development of the BioHybrid Assay: Combining Primary Human Vascular Smooth Muscle Cells and Blood to Measure Vascular Calcification Propensity. <i>Cells</i> , 2021, 10, 2097.	4.1	6
83	Annexin V-Affinity assay: A review on an apoptosis detection system based on phosphatidylserine exposure. , 1998, 31, 1.		6
84	Single Cell Analysis of Reversibility of the Cell Death Program in Ethanol-Treated Neuronal PC12 Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 2650.	4.1	6
85	AnnexinA5-pHrodo: a new molecular probe for measuring efferocytosis. <i>Scientific Reports</i> , 2018, 8, 17731.	3.3	5
86	Low human and murine Mcl-1 expression leads to a pro-apoptotic plaque phenotype enriched in giant-cells. <i>Scientific Reports</i> , 2019, 9, 14547.	3.3	5
87	More about complement in the antiphospholipid syndrome. <i>Blood</i> , 2020, 136, 1456-1459.	1.4	5
88	Circulating annexin A5 levels are associated with carotid intima-media thickness but not coronary plaque composition. <i>Diabetes and Vascular Disease Research</i> , 2017, 14, 415-422.	2.0	4
89	Conformational plasticity of ADAMTS13 in hemostasis and autoimmunity. <i>Journal of Biological Chemistry</i> , 2021, 297, 101132.	3.4	4
90	A novel assay to measure loss of plasma membrane asymmetry during apoptosis of adherent cells in culture. , 1996, 24, 131.		3

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91	Vitamin K antagonist use induces calcification and atherosclerotic plaque progression resulting in increased hypercoagulability. <i>European Heart Journal Open</i> , 2021, 1, .	2.3	2
92	YIA–Medial Vascular Smooth Muscle Cell Cytopenia Accelerates Atherogenesis in APOE-/-MICE. <i>Heart</i> , 2015, 101, A124.2-A125.	2.9	0
93	Prenatal administration of multipotent adult progenitor cells modulates the systemic and cerebral immune response in an ovine model of chorioamnionitis. <i>Brain, Behavior, & Immunity - Health</i> , 2022, , 100458.	2.5	0