

Seppo Yl-Herttuala

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.

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|--------------------|--------------------------|----------------|-----------------|
| 632 papers | 38,250 citations | 98 h-index | 172 g-index |
| 705 ext. papers | 41,955 ext. citations | 7.3 avg, IF | 7.07 L-index |

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 632 | Evidence for the presence of oxidatively modified low density lipoprotein in atherosclerotic lesions of rabbit and man. <i>Journal of Clinical Investigation</i> , 1989 , 84, 1086-95 | 15.9 | 1564 |
| 631 | Autoantibody against oxidised LDL and progression of carotid atherosclerosis. <i>Lancet, The</i> , 1992 , 339, 883-7 | 40 | 1173 |
| 630 | Expression of monocyte chemoattractant protein 1 in macrophage-rich areas of human and rabbit atherosclerotic lesions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 5252-6 | 11.5 | 757 |
| 629 | Blocking VEGFR-3 suppresses angiogenic sprouting and vascular network formation. <i>Nature</i> , 2008 , 454, 656-60 | 50.4 | 649 |
| 628 | Inhibition of lymphangiogenesis with resulting lymphedema in transgenic mice expressing soluble VEGF receptor-3. <i>Nature Medicine</i> , 2001 , 7, 199-205 | 50.5 | 610 |
| 627 | Lymphatic endothelial reprogramming of vascular endothelial cells by the Prox-1 homeobox transcription factor. <i>EMBO Journal</i> , 2002 , 21, 4593-9 | 13 | 481 |
| 626 | A model for gene therapy of human hereditary lymphedema. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 12677-82 | 11.5 | 481 |
| 625 | Defective valves and abnormal mural cell recruitment underlie lymphatic vascular failure in lymphedema distichiasis. <i>Nature Medicine</i> , 2004 , 10, 974-81 | 50.5 | 458 |
| 624 | Distribution of oxidation specific lipid-protein adducts and apolipoprotein B in atherosclerotic lesions of varying severity from WHHL rabbits. <i>Arteriosclerosis (Dallas, Tex)</i> , 1990 , 10, 336-49 | | 442 |
| 623 | Safety and feasibility of catheter-based local intracoronary vascular endothelial growth factor gene transfer in the prevention of postangioplasty and in-stent restenosis and in the treatment of chronic myocardial ischemia: phase II results of the Kuopio Angiogenesis Trial (KAT). <i>Circulation</i> , 2003 , 107, 2677-83 | 16.7 | 436 |
| 622 | Pathogenesis of persistent lymphatic vessel hyperplasia in chronic airway inflammation. <i>Journal of Clinical Investigation</i> , 2005 , 115, 247-257 | 15.9 | 434 |
| 621 | Rabbit and human atherosclerotic lesions contain IgG that recognizes epitopes of oxidized LDL. <i>Arteriosclerosis and Thrombosis: A Journal of Vascular Biology</i> , 1994 , 14, 32-40 | | 430 |
| 620 | Colocalization of 15-lipoxygenase mRNA and protein with epitopes of oxidized low density lipoprotein in macrophage-rich areas of atherosclerotic lesions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990 , 87, 6959-63 | 11.5 | 397 |
| 619 | Biology of vascular endothelial growth factors. <i>FEBS Letters</i> , 2006 , 580, 2879-87 | 3.8 | 355 |
| 618 | Vascular endothelial growth factors: biology and current status of clinical applications in cardiovascular medicine. <i>Journal of the American College of Cardiology</i> , 2007 , 49, 1015-26 | 15.1 | 354 |
| 617 | Gene transfer as a tool to induce therapeutic vascular growth. <i>Nature Medicine</i> , 2003 , 9, 694-701 | 50.5 | 346 |
| 616 | Vascular endothelial growth factor B controls endothelial fatty acid uptake. <i>Nature</i> , 2010 , 464, 917-21 | 50.4 | 342 |

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|-----|--|------|-----|
| 615 | Stabilization of HIF-1alpha is critical to improve wound healing in diabetic mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 19426-31 | 11.5 | 341 |
| 614 | Bone marrow-derived circulating endothelial precursors do not contribute to vascular endothelium and are not needed for tumor growth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 6620-5 | 11.5 | 340 |
| 613 | Gene expression in macrophage-rich human atherosclerotic lesions. 15-lipoxygenase and acetyl low density lipoprotein receptor messenger RNA colocalize with oxidation specific lipid-protein adducts. <i>Journal of Clinical Investigation</i> , 1991 , 87, 1146-52 | 15.9 | 339 |
| 612 | VEGF-D is the strongest angiogenic and lymphangiogenic effector among VEGFs delivered into skeletal muscle via adenoviruses. <i>Circulation Research</i> , 2003 , 92, 1098-106 | 15.7 | 335 |
| 611 | History of gene therapy. <i>Gene</i> , 2013 , 525, 162-9 | 3.8 | 334 |
| 610 | Vascular endothelial cell growth factor receptor 3-mediated activation of lymphatic endothelium is crucial for tumor cell entry and spread via lymphatic vessels. <i>Cancer Research</i> , 2005 , 65, 4739-46 | 10.1 | 332 |
| 609 | Cardiovascular gene therapy. <i>Lancet, The</i> , 2000 , 355, 213-22 | 4.0 | 327 |
| 608 | AdvHSV-tk gene therapy with intravenous ganciclovir improves survival in human malignant glioma: a randomised, controlled study. <i>Molecular Therapy</i> , 2004 , 10, 967-72 | 11.7 | 324 |
| 607 | Increased vascularity detected by digital subtraction angiography after VEGF gene transfer to human lower limb artery: a randomized, placebo-controlled, double-blinded phase II study. <i>Molecular Therapy</i> , 2002 , 6, 127-33 | 11.7 | 292 |
| 606 | Consensus guidelines for the use and interpretation of angiogenesis assays. <i>Angiogenesis</i> , 2018 , 21, 425-538 | 5.3 | 285 |
| 605 | Therapeutic differentiation and maturation of lymphatic vessels after lymph node dissection and transplantation. <i>Nature Medicine</i> , 2007 , 13, 1458-66 | 50.5 | 274 |
| 604 | Interactions of polymeric and liposomal gene delivery systems with extracellular glycosaminoglycans: physicochemical and transfection studies. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1999 , 1415, 331-41 | 3.8 | 266 |
| 603 | Thymidine kinase gene therapy for human malignant glioma, using replication-deficient retroviruses or adenoviruses. <i>Human Gene Therapy</i> , 2000 , 11, 2197-205 | 4.8 | 259 |
| 602 | FOXC2 controls formation and maturation of lymphatic collecting vessels through cooperation with NFATc1. <i>Journal of Cell Biology</i> , 2009 , 185, 439-57 | 7.3 | 254 |
| 601 | VEGFR-3 controls tip to stalk conversion at vessel fusion sites by reinforcing Notch signalling. <i>Nature Cell Biology</i> , 2011 , 13, 1202-13 | 23.4 | 237 |
| 600 | VEGF-A links angiogenesis and inflammation in inflammatory bowel disease pathogenesis. <i>Gastroenterology</i> , 2009 , 136, 585-95.e5 | 13.3 | 236 |
| 599 | Intrahippocampal injection of a lentiviral vector expressing Nrf2 improves spatial learning in a mouse model of Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 16505-10 | 11.5 | 228 |
| 598 | Oxidized phospholipids are proinflammatory and proatherogenic in hypercholesterolaemic mice. <i>Nature</i> , 2018 , 558, 301-306 | 50.4 | 227 |

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|-----|--|------|-----|
| 597 | Expression of extracellular SOD and iNOS in macrophages and smooth muscle cells in human and rabbit atherosclerotic lesions: colocalization with epitopes characteristic of oxidized LDL and peroxynitrite-modified proteins. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1998 , 18, 157-67 | 9.4 | 219 |
| 596 | ¹ H MRS detects polyunsaturated fatty acid accumulation during gene therapy of glioma: implications for the in vivo detection of apoptosis. <i>Nature Medicine</i> , 1999 , 5, 1323-7 | 50.5 | 219 |
| 595 | Lipoprotein-associated phospholipase A(2), platelet-activating factor acetylhydrolase, is expressed by macrophages in human and rabbit atherosclerotic lesions. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1999 , 19, 2909-17 | 9.4 | 216 |
| 594 | VEGF-B is dispensable for blood vessel growth but critical for their survival, and VEGF-B targeting inhibits pathological angiogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 6152-7 | 11.5 | 208 |
| 593 | Angiopoietin-1 promotes lymphatic sprouting and hyperplasia. <i>Blood</i> , 2005 , 105, 4642-8 | 2.2 | 204 |
| 592 | Somatic Activating KRAS Mutations in Arteriovenous Malformations of the Brain. <i>New England Journal of Medicine</i> , 2018 , 378, 250-261 | 59.2 | 195 |
| 591 | Adenoviral expression of vascular endothelial growth factor-C induces lymphangiogenesis in the skin. <i>Circulation Research</i> , 2001 , 88, 623-9 | 15.7 | 189 |
| 590 | DNA hypomethylation and methyltransferase expression in atherosclerotic lesions. <i>Vascular Medicine</i> , 2002 , 7, 5-11 | 3.3 | 187 |
| 589 | Nuclear factor erythroid 2-related factor 2 protects against beta amyloid. <i>Molecular and Cellular Neurosciences</i> , 2008 , 39, 302-13 | 4.8 | 186 |
| 588 | Catheter-mediated vascular endothelial growth factor gene transfer to human coronary arteries after angioplasty. <i>Human Gene Therapy</i> , 2000 , 11, 263-70 | 4.8 | 176 |
| 587 | VEGF gene transfer reduces intimal thickening via increased production of nitric oxide in carotid arteries. <i>Human Gene Therapy</i> , 1997 , 8, 1737-44 | 4.8 | 172 |
| 586 | Adenovirus-mediated gene transfer to lower limb artery of patients with chronic critical leg ischemia. <i>Human Gene Therapy</i> , 1998 , 9, 1481-6 | 4.8 | 171 |
| 585 | Vascular endothelial growth factor-C accelerates diabetic wound healing. <i>American Journal of Pathology</i> , 2006 , 169, 1080-7 | 5.8 | 168 |
| 584 | Beta-galactosidase gene transfer to human malignant glioma in vivo using replication-deficient retroviruses and adenoviruses. <i>Human Gene Therapy</i> , 1998 , 9, 1769-74 | 4.8 | 167 |
| 583 | Adenoviral catheter-mediated intramyocardial gene transfer using the mature form of vascular endothelial growth factor-D induces transmural angiogenesis in porcine heart. <i>Circulation</i> , 2004 , 109, 1029-35 | 16.7 | 165 |
| 582 | Gene therapy for malignant glioma: current clinical status. <i>Molecular Therapy</i> , 2005 , 12, 585-98 | 11.7 | 163 |
| 581 | Macrophages and smooth muscle cells express lipoprotein lipase in human and rabbit atherosclerotic lesions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1991 , 88, 10143-7 | 11.5 | 163 |
| 580 | Epigenetics and atherosclerosis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2009 , 1790, 886-91 | 4 | 158 |

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| 579 | Effects of angiopoietin-2-blocking antibody on endothelial cell-cell junctions and lung metastasis. <i>Journal of the National Cancer Institute</i> , 2012 , 104, 461-75 | 9.7 | 158 |
| 578 | Hypoxia induces microRNA miR-210 in vitro and in vivo ephrin-A3 and neuronal pentraxin 1 are potentially regulated by miR-210. <i>FEBS Letters</i> , 2008 , 582, 2397-401 | 3.8 | 158 |
| 577 | Electrophilic nitro-fatty acids activate NRF2 by a KEAP1 cysteine 151-independent mechanism. <i>Journal of Biological Chemistry</i> , 2011 , 286, 14019-27 | 5.4 | 157 |
| 576 | Angiogenesis-dependent and independent phases of intimal hyperplasia. <i>Circulation</i> , 2004 , 110, 2436-43 | 16.7 | 157 |
| 575 | Adenovirus-mediated gene therapy with sitimagene ceradenovec followed by intravenous ganciclovir for patients with operable high-grade glioma (ASPECT): a randomised, open-label, phase 3 trial. <i>Lancet Oncology</i> , 2013 , 14, 823-33 | 21.7 | 154 |
| 574 | Nrf2 gene transfer induces antioxidant enzymes and suppresses smooth muscle cell growth in vitro and reduces oxidative stress in rabbit aorta in vivo. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 741-7 | 9.4 | 145 |
| 573 | Current status of cardiovascular gene therapy. <i>Molecular Therapy</i> , 2007 , 15, 1233-47 | 11.7 | 144 |
| 572 | Vascular endothelial growth factor-B induces myocardium-specific angiogenesis and arteriogenesis via vascular endothelial growth factor receptor-1- and neuropilin receptor-1-dependent mechanisms. <i>Circulation</i> , 2009 , 119, 845-56 | 16.7 | 143 |
| 571 | Baculovirus-mediated periadventitial gene transfer to rabbit carotid artery. <i>Gene Therapy</i> , 2000 , 7, 1499-504 | 10.4 | 140 |
| 570 | Baculovirus: an insect-derived vector for diverse gene transfer applications. <i>Molecular Therapy</i> , 2013 , 21, 739-49 | 11.7 | 139 |
| 569 | Distinct vascular endothelial growth factor signals for lymphatic vessel enlargement and sprouting. <i>Journal of Experimental Medicine</i> , 2007 , 204, 1431-40 | 16.6 | 137 |
| 568 | Avidin-biotin technology in targeted therapy. <i>Expert Opinion on Drug Delivery</i> , 2010 , 7, 551-64 | 8 | 136 |
| 567 | Efficient adventitial gene delivery to rabbit carotid artery with cationic polymer-plasmid complexes. <i>Gene Therapy</i> , 1999 , 6, 6-11 | 4 | 136 |
| 566 | Growth factor therapy and autologous lymph node transfer in lymphedema. <i>Circulation</i> , 2011 , 123, 613-20 | 16.7 | 135 |
| 565 | VEGF receptor 2/-3 heterodimers detected in situ by proximity ligation on angiogenic sprouts. <i>EMBO Journal</i> , 2010 , 29, 1377-88 | 13 | 134 |
| 564 | Adenoviral VEGF-C overexpression induces blood vessel enlargement, tortuosity, and leakiness but no sprouting angiogenesis in the skin or mucous membranes. <i>FASEB Journal</i> , 2002 , 16, 1041-9 | 0.9 | 134 |
| 563 | KLF2 primes the antioxidant transcription factor Nrf2 for activation in endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2008 , 28, 1339-46 | 9.4 | 133 |
| 562 | Local hypomethylation in atherosclerosis found in rabbit ec-sod gene. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1999 , 19, 2171-8 | 9.4 | 131 |

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| 561 | Nrf2-dependent and -independent responses to nitro-fatty acids in human endothelial cells: identification of heat shock response as the major pathway activated by nitro-oleic acid. <i>Journal of Biological Chemistry</i> , 2009 , 284, 33233-41 | 5.4 | 130 |
| 560 | Lymphangiogenic gene therapy with minimal blood vascular side effects. <i>Journal of Experimental Medicine</i> , 2002 , 196, 719-30 | 16.6 | 129 |
| 559 | Evaluation of alphavbeta3 integrin-targeted positron emission tomography tracer 18F-galacto-RGD for imaging of vascular inflammation in atherosclerotic mice. <i>Circulation: Cardiovascular Imaging</i> , 2009 , 2, 331-8 | 3.9 | 127 |
| 558 | Involvement of specific macrophage-lineage cells surrounding arterioles in barrier and scavenger function in brain cortex. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996 , 93, 3269-74 | 11.5 | 127 |
| 557 | Fibroblast growth factor 4 induces vascular permeability, angiogenesis and arteriogenesis in a rabbit hindlimb ischemia model. <i>FASEB Journal</i> , 2003 , 17, 100-2 | 0.9 | 123 |
| 556 | Hypoxia and platelet-derived growth factor-BB synergistically upregulate the expression of vascular endothelial growth factor in vascular smooth muscle cells. <i>FEBS Letters</i> , 1995 , 358, 311-5 | 3.8 | 123 |
| 555 | Tie1 controls angiopoietin function in vascular remodeling and inflammation. <i>Journal of Clinical Investigation</i> , 2016 , 126, 3495-510 | 15.9 | 119 |
| 554 | Lymphangiogenic growth factor responsiveness is modulated by postnatal lymphatic vessel maturation. <i>American Journal of Pathology</i> , 2006 , 169, 708-18 | 5.8 | 118 |
| 553 | Intravascular adenovirus-mediated VEGF-C gene transfer reduces neointima formation in balloon-denuded rabbit aorta. <i>Circulation</i> , 2000 , 102, 2262-8 | 16.7 | 117 |
| 552 | Vascular endothelial growth factor enhances cardiac allograft arteriosclerosis. <i>Circulation</i> , 2002 , 105, 2524-30 | 16.7 | 116 |
| 551 | Evolving revascularization approaches for myocardial ischemia. <i>American Journal of Cardiology</i> , 2003 , 92, 9N-17N | 3 | 115 |
| 550 | Transfer of 15-lipoxygenase gene into rabbit iliac arteries results in the appearance of oxidation-specific lipid-protein adducts characteristic of oxidized low density lipoprotein. <i>Journal of Clinical Investigation</i> , 1995 , 95, 2692-8 | 15.9 | 115 |
| 549 | Expression of alpha 2-macroglobulin receptor/low density lipoprotein receptor-related protein and scavenger receptor in human atherosclerotic lesions. <i>Journal of Clinical Investigation</i> , 1994 , 93, 2014-21 | 15.9 | 114 |
| 548 | Vascular endothelial growth factor-B acts as a coronary growth factor in transgenic rats without inducing angiogenesis, vascular leak, or inflammation. <i>Circulation</i> , 2010 , 122, 1725-33 | 16.7 | 113 |
| 547 | Granulocyte transmigration through the endothelium is regulated by the oxidase activity of vascular adhesion protein-1 (VAP-1). <i>Blood</i> , 2004 , 103, 3388-95 | 2.2 | 112 |
| 546 | Stabilisation of atherosclerotic plaques. Position paper of the European Society of Cardiology (ESC) Working Group on atherosclerosis and vascular biology. <i>Thrombosis and Haemostasis</i> , 2011 , 106, 1-19 | 7 | 110 |
| 545 | Adenoviral VEGF-A gene transfer induces angiogenesis and promotes bone formation in healing osseous tissues. <i>Journal of Gene Medicine</i> , 2003 , 5, 560-6 | 3.5 | 110 |
| 544 | Stabilized HIF-1alpha is superior to VEGF for angiogenesis in skeletal muscle via adeno-associated virus gene transfer. <i>FASEB Journal</i> , 2005 , 19, 1365-7 | 0.9 | 109 |

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|-----|---|------|-----|
| 543 | Oxidized LDL and atherogenesis. <i>Annals of the New York Academy of Sciences</i> , 1999 , 874, 134-7 | 6.5 | 109 |
| 542 | Overexpression of vascular endothelial growth factor-B in mouse heart alters cardiac lipid metabolism and induces myocardial hypertrophy. <i>Circulation Research</i> , 2008 , 103, 1018-26 | 15.7 | 107 |
| 541 | Stable RNA interference: comparison of U6 and H1 promoters in endothelial cells and in mouse brain. <i>Journal of Gene Medicine</i> , 2006 , 8, 433-41 | 3.5 | 106 |
| 540 | Targeting lymphatic vessel activation and CCL21 production by vascular endothelial growth factor receptor-3 inhibition has novel immunomodulatory and antiarteriosclerotic effects in cardiac allografts. <i>Circulation</i> , 2010 , 121, 1413-22 | 16.7 | 105 |
| 539 | Nrf2 regulates antioxidant gene expression evoked by oxidized phospholipids in endothelial cells and murine arteries in vivo. <i>Circulation Research</i> , 2008 , 103, e1-9 | 15.7 | 105 |
| 538 | Baseline diene conjugation in LDL lipids as a direct measure of in vivo LDL oxidation. <i>Clinical Biochemistry</i> , 1998 , 31, 257-61 | 3.5 | 103 |
| 537 | Angiopoietin-regulated recruitment of vascular smooth muscle cells by endothelial-derived heparin binding EGF-like growth factor. <i>FASEB Journal</i> , 2003 , 17, 1609-21 | 0.9 | 99 |
| 536 | Challenges in monoclonal antibody-based therapies. <i>Annals of Medicine</i> , 2009 , 41, 322-31 | 1.5 | 98 |
| 535 | Notch restricts lymphatic vessel sprouting induced by vascular endothelial growth factor. <i>Blood</i> , 2011 , 118, 1154-62 | 2.2 | 97 |
| 534 | The tyrosine kinase inhibitor cediranib blocks ligand-induced vascular endothelial growth factor receptor-3 activity and lymphangiogenesis. <i>Cancer Research</i> , 2008 , 68, 4754-62 | 10.1 | 96 |
| 533 | Enhanced polyamine catabolism alters homeostatic control of white adipose tissue mass, energy expenditure, and glucose metabolism. <i>Molecular and Cellular Biology</i> , 2007 , 27, 4953-67 | 4.8 | 96 |
| 532 | Microanatomy of the Human Atherosclerotic Plaque by Single-Cell Transcriptomics. <i>Circulation Research</i> , 2020 , 127, 1437-1455 | 15.7 | 96 |
| 531 | Gene transfer into the carotid artery using an adventitial collar: comparison of the effectiveness of the plasmid-liposome complexes, retroviruses, pseudotyped retroviruses, and adenoviruses. <i>Human Gene Therapy</i> , 1997 , 8, 1645-50 | 4.8 | 95 |
| 530 | Simvastatin has an anti-inflammatory effect on macrophages via upregulation of an atheroprotective transcription factor, Kruppel-like factor 2. <i>Cardiovascular Research</i> , 2008 , 78, 175-84 | 9.9 | 95 |
| 529 | Blood flow remodels growing vasculature during vascular endothelial growth factor gene therapy and determines between capillary arterIALIZATION and sprouting angiogenesis. <i>Circulation</i> , 2005 , 112, 3937-46 | 16.7 | 95 |
| 528 | Progress and prospects: gene therapy clinical trials (part 1). <i>Gene Therapy</i> , 2007 , 14, 1439-47 | 4 | 94 |
| 527 | Lymphatic vasculature is increased in heart valves, ischaemic and inflamed hearts and in cholesterol-rich and calcified atherosclerotic lesions. <i>European Journal of Clinical Investigation</i> , 2011 , 41, 487-97 | 4.6 | 92 |
| 526 | Efficient regulation of VEGF expression by promoter-targeted lentiviral shRNAs based on epigenetic mechanism: a novel example of epigenetherapy. <i>Circulation Research</i> , 2009 , 105, 604-9 | 15.7 | 92 |

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|-----|--|------|----|
| 525 | DNA methylation, smooth muscle cells, and atherogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2003 , 23, 1750-3 | 9.4 | 92 |
| 524 | Monitoring thymidine kinase and ganciclovir-induced changes in rat malignant glioma in vivo by nuclear magnetic resonance imaging. <i>Cancer Gene Therapy</i> , 1998 , 5, 101-9 | 5.4 | 92 |
| 523 | Angiogenic gene therapy in cardiovascular diseases: dream or vision?. <i>European Heart Journal</i> , 2017 , 38, 1365-1371 | 9.5 | 91 |
| 522 | Baculoviruses exhibit restricted cell type specificity in rat brain: a comparison of baculovirus- and adenovirus-mediated intracerebral gene transfer in vivo. <i>Gene Therapy</i> , 2002 , 9, 1693-9 | 4 | 89 |
| 521 | Cell-type-specific characteristics modulate the transduction efficiency of adeno-associated virus type 2 and restrain infection of endothelial cells. <i>Journal of Virology</i> , 2002 , 76, 11530-40 | 6.6 | 89 |
| 520 | Adenovirus-mediated extracellular superoxide dismutase gene therapy reduces neointima formation in balloon-denuded rabbit aorta. <i>Circulation</i> , 2002 , 106, 1999-2003 | 16.7 | 89 |
| 519 | Eight-year safety follow-up of coronary artery disease patients after local intracoronary VEGF gene transfer. <i>Gene Therapy</i> , 2009 , 16, 629-34 | 4 | 88 |
| 518 | Evaluation of angiogenesis and side effects in ischemic rabbit hindlimbs after intramuscular injection of adenoviral vectors encoding VEGF and LacZ. <i>Journal of Gene Medicine</i> , 2002 , 4, 371-80 | 3.5 | 88 |
| 517 | Cardiovascular Gene Therapy: Past, Present, and Future. <i>Molecular Therapy</i> , 2017 , 25, 1095-1106 | 11.7 | 87 |
| 516 | Intravesical rAd-IFN γ /Syn3 for Patients With High-Grade, Bacillus Calmette-Guerin-Refractory or Relapsed Non-Muscle-Invasive Bladder Cancer: A Phase II Randomized Study. <i>Journal of Clinical Oncology</i> , 2017 , 35, 3410-3416 | 2.2 | 86 |
| 515 | Enhanced gene delivery by avidin-displaying baculovirus. <i>Molecular Therapy</i> , 2004 , 9, 282-91 | 11.7 | 86 |
| 514 | Doxycycline-regulated lentiviral vector system with a novel reverse transactivator rtTA2S-M2 shows a tight control of gene expression in vitro and in vivo. <i>Gene Therapy</i> , 2003 , 10, 459-66 | 4 | 85 |
| 513 | Angiopoietin-1 protects against the development of cardiac allograft arteriosclerosis. <i>Circulation</i> , 2003 , 107, 1308-14 | 16.7 | 85 |
| 512 | Photodynamic ablation of lymphatic vessels and intralymphatic cancer cells prevents metastasis. <i>Science Translational Medicine</i> , 2011 , 3, 69ra11 | 17.5 | 84 |
| 511 | In vivo low density lipoprotein oxidation relates to coronary reactivity in young men. <i>Journal of the American College of Cardiology</i> , 1997 , 30, 97-102 | 15.1 | 84 |
| 510 | Biodistribution of adenoviral vector to nontarget tissues after local in vivo gene transfer to arterial wall using intravascular and periadventitial gene delivery methods. <i>FASEB Journal</i> , 2000 , 14, 2230-6 | 0.9 | 84 |
| 509 | Overexpression of PHGPx inhibits hydroperoxide-induced oxidation, NFkappaB activation and apoptosis and affects oxLDL-mediated proliferation of rabbit aortic smooth muscle cells. <i>Atherosclerosis</i> , 2000 , 152, 307-16 | 3.1 | 84 |
| 508 | Low-grade inflammation and the phenotypic expression of myocardial fibrosis in hypertrophic cardiomyopathy. <i>Heart</i> , 2012 , 98, 1007-13 | 5.1 | 83 |

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|-----|--|------|----|
| 507 | Antioxidant gene therapy for cardiovascular disease: current status and future perspectives. <i>Circulation</i> , 2008 , 117, 2142-50 | 16.7 | 83 |
| 506 | Baculovirus capsid display: a novel tool for transduction imaging. <i>Molecular Therapy</i> , 2003 , 8, 853-62 | 11.7 | 83 |
| 505 | Vascular endothelial growth factor-C gene therapy restores lymphatic flow across incision wounds. <i>FASEB Journal</i> , 2004 , 18, 1707-9 | 0.9 | 83 |
| 504 | Macrophages and oxidized low density lipoproteins in the pathogenesis of atherosclerosis. <i>Annals of Medicine</i> , 1991 , 23, 561-7 | 1.5 | 83 |
| 503 | Adenoviral intramyocardial VEGF-DNA gene transfer increases myocardial perfusion reserve in refractory angina patients: a phase I/IIa study with 1-year follow-up. <i>European Heart Journal</i> , 2017 , 38, 2547-2555 | 9.5 | 82 |
| 502 | HIF-VEGF-VEGFR-2, TNF-alpha and IGF pathways are upregulated in critical human skeletal muscle ischemia as studied with DNA array. <i>Atherosclerosis</i> , 2004 , 174, 111-20 | 3.1 | 82 |
| 501 | Activated forms of VEGF-C and VEGF-D provide improved vascular function in skeletal muscle. <i>Circulation Research</i> , 2009 , 104, 1302-12 | 15.7 | 81 |
| 500 | HIF-1 induction attenuates Nrf2-dependent IL-8 expression in human endothelial cells. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 1501-17 | 8.4 | 80 |
| 499 | Down's syndrome and atherosclerosis. <i>Atherosclerosis</i> , 1989 , 76, 269-72 | 3.1 | 80 |
| 498 | Hyperbaric oxygen therapy activates hypoxia-inducible factor 1 (HIF-1), which contributes to improved wound healing in diabetic mice. <i>Wound Repair and Regeneration</i> , 2015 , 23, 98-103 | 3.6 | 79 |
| 497 | Global DNA methylation analysis of human atherosclerotic plaques reveals extensive genomic hypomethylation and reactivation at imprinted locus 14q32 involving induction of a miRNA cluster. <i>European Heart Journal</i> , 2015 , 36, 993-1000 | 9.5 | 79 |
| 496 | Upregulated signaling pathways in ruptured human saccular intracranial aneurysm wall: an emerging regulative role of Toll-like receptor signaling and nuclear factor-B, hypoxia-inducible factor-1A, and ETS transcription factors. <i>Neurosurgery</i> , 2011 , 68, 1667-75; discussion 1675-6 | 3.2 | 79 |
| 495 | Gene therapy for ischemic cardiovascular diseases: some lessons learned from the first clinical trials. <i>Trends in Cardiovascular Medicine</i> , 2004 , 14, 295-300 | 6.9 | 78 |
| 494 | Stabilization of atherosclerotic plaques: an update. <i>European Heart Journal</i> , 2013 , 34, 3251-8 | 9.5 | 77 |
| 493 | Silencing of either SR-A or CD36 reduces atherosclerosis in hyperlipidaemic mice and reveals reciprocal upregulation of these receptors. <i>Cardiovascular Research</i> , 2010 , 88, 530-8 | 9.9 | 76 |
| 492 | Changes in gene expression in atherosclerotic plaques analyzed using DNA array. <i>Atherosclerosis</i> , 2002 , 165, 23-32 | 3.1 | 76 |
| 491 | Is oxidized low-density lipoprotein present in vivo?. <i>Current Opinion in Lipidology</i> , 1998 , 9, 337-44 | 4.4 | 76 |
| 490 | Lymphatic vessel insufficiency in hypercholesterolemic mice alters lipoprotein levels and promotes atherogenesis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2014 , 34, 1162-70 | 9.4 | 75 |

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|-----|---|------|----|
| 489 | Heme oxygenase 1 is induced by miR-155 via reduced BACH1 translation in endothelial cells. <i>Free Radical Biology and Medicine</i> , 2011 , 51, 2124-31 | 7.8 | 75 |
| 488 | Lipoproteins in normal and atherosclerotic aorta. <i>European Heart Journal</i> , 1990 , 11 Suppl E, 88-99 | 9.5 | 73 |
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