Robert Sackstein

List of Publications by Year
in descending order

52 papers	2,268 citations	304743 22 h-index	223800 46 g-index
53 all docs	53 docs citations	53 times ranked	3765 citing authors

#	Article	IF	Citations
1	Ex vivo glycan engineering of CD44 programs human multipotent mesenchymal stromal cell trafficking to bone. Nature Medicine, 2008, 14, 181-187.	30.7	573
2	T-lymphocyte homing: an underappreciated yet critical hurdle for successful cancer immunotherapy. Laboratory Investigation, 2017, 97, 669-697.	3.7	167
3	Bone vascular niche E-selectin induces mesenchymalâ€“epithelial transition and Wnt activation in cancer cells to promote bone metastasis. Nature Cell Biology, 2019, 21, 627-639.	10.3	160
4	The lymphocyte homing receptors: gatekeepers of the multistep paradigm. Current Opinion in Hematology, 2005, 12, 444-450.	2.5	114
5	E-Selectin Ligands in the Human Mononuclear Phagocyte System: Implications for Infection, Inflammation, and Immunotherapy. Frontiers in Immunology, 2017, 8, 1878.	4.8	90
6	A Revision of Billinghamâ€™s Tenets: The Central Role of Lymphocyte Migration in Acute Graft-versus-Host Disease. Biology of Blood and Marrow Transplantation, 2006, 12, 2-8.	2.0	88
7	The Bone Marrow Is Akin to Skin: HCELL and the Biology of Hematopoietic Stem Cell Homing. Journal of Investigative Dermatology, 2004, 122, 1061-1069.	0.7	78
8	Glycosyltransferaseâ€programmed stereosubstitution (GPS) to create HCELL: engineering a roadmap for cell migration. Immunological Reviews, 2009, 230, 51-74.	6.0	75
9	Distinct human Î±(1,3)-fucosyltransferases drive Lewis-X/sialyl Lewis-X assembly in human cells. Journal of Biological Chemistry, 2018, 293, 7300-7314.	3.4	61
10	CD44 and HCELL: Preventing hematogenous metastasis at step 1. FEBS Letters, 2011, 585, 3148-3158.	2.8	59
11	Cost-Effective, Safe, and Personalized Cell Therapy for Critical Limb Ischemia in Type 2 Diabetes Mellitus. Frontiers in Immunology, 2019, 10, 1151.	4.8	52
12	The biology of CD44 and HCELL in hematopoiesis: the â€˜step 2-bypass pathwayâ€™ and other emerging perspectives. Current Opinion in Hematology, 2011, 18, 239-248.	2.5	50
13	Inhibition of fucosylation in human invasive ductal carcinoma reduces Eâ€selectin ligand expression, cell proliferation, and <scp>ERK</scp>1/2 and p38 <scp>MAPK</scp> activation. Molecular Oncology, 2018, 12, 579-593.	4.6	50
14	Glycoengineering of E-Selectin Ligands by Intracellular versus Extracellular Fucosylation Differentially Affects Osteotropism of Human Mesenchymal Stem Cells. Stem Cells, 2016, 34, 2501-2511.	3.2	48
15	Glycoengineering of HCELL, the Human Bone Marrow Homing Receptor: Sweetly Programming Cell Migration. Annals of Biomedical Engineering, 2012, 40, 766-776.	2.5	45
16	The schizophrenia risk locus in SLC39A8 alters brain metal transport and plasma glycosylation. Scientific Reports, 2020, 10, 13162.	3.3	43
17	Recent advances on smart glycoconjugate vaccines in infections and cancer. FEBS Journal, 2022, 289, 4251-4303.	4.7	39
18	A Glycovariant of Human CD44 is Characteristically Expressed on Human Mesenchymal Stem Cells. Stem Cells, 2017, 35, 1080-1092.	3.2	35

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19	Glycoengineering of chimeric antigen receptor (CAR) T-cells to enforce E-selectin binding. Journal of Biological Chemistry, 2019, 294, 18465-18474.	3.4	35
20	Cell-Specific Variation in E-Selectin Ligand Expression among Human Peripheral Blood Mononuclear Cells: Implications for Immunosurveillance and Pathobiology. Journal of Immunology, 2017, 198, 3576-3587.	0.8	33
21	Regulation of Heparan Sulfate and Chondroitin Sulfate Glycosaminoglycan Biosynthesis by 4-Fluoro-glucosamine in Murine Airway Smooth Muscle Cells. Journal of Biological Chemistry, 2009, 284, 16832-16839.	3.4	32
22	Optimizing human Treg immunotherapy by Treg subset selection and E-selectin ligand expression. Scientific Reports, 2018, 8, 420.	3.3	23
23	Defibrotide inhibits donor leucocyteâ€endothelial interactions and protects against acute graftâ€versusâ€host disease. Journal of Cellular and Molecular Medicine, 2020, 24, 8031-8044.	3.6	23
24	mRNA-mediated glycoengineering ameliorates deficient homing of human stem cellâ€“derived hematopoietic progenitors. Journal of Clinical Investigation, 2017, 127, 2433-2437.	8.2	23
25	Imaging specific cellular glycan structures using glycosyltransferases via click chemistry. Glycobiology, 2018, 28, 69-79.	2.5	22
26	Emerging glycoâ€based strategies to steer immune responses. FEBS Journal, 2021, 288, 4746-4772.	4.7	22
27	Fulfilling Koch's postulates in glycoscience: HCELL, GPS and translational glycobiology. Glycobiology, 2016, 26, 560-570.	2.5	21
28	G-CSF Induces Membrane Expression of a Myeloperoxidase Glycovariant that Operates as an E-selectin Ligand on Human Myeloid Cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10696-10701.	7.1	19
29	Directing Stem Cell Trafficking via GPS. Methods in Enzymology, 2010, 479, 93-105.	1.0	17
30	Ligation of the CD44 Glycoform HCELL on Culture-Expanded Human Monocyte-Derived Dendritic Cells Programs Transendothelial Migration. Journal of Immunology, 2018, 201, 1030-1043.	0.8	17
31	The First Step in Adoptive Cell Immunotherapeutics: Assuring Cell Delivery via Glycoengineering. Frontiers in Immunology, 2018, 9, 3084.	4.8	17
32	Engineering cellular trafficking via glycosyltransferaseâ€programmed stereosubstitution. Annals of the New York Academy of Sciences, 2012, 1253, 193-200.	3.8	13
33	Staining of E-selectin ligands on paraffin-embedded sections of tumor tissue. BMC Cancer, 2018, 18, 495.	2.6	13
34	Leukocyte-borne Î±(1,3)-fucose is a negative regulator of Î²2-integrin-dependent recruitment in lung inflammation. Journal of Leukocyte Biology, 2017, 101, 459-470.	3.3	12
35	Production via good manufacturing practice of exofucosylated human mesenchymal stromal cells for clinical applications. Cytotherapy, 2018, 20, 1110-1123.	0.7	12
36	Bone marrow mesenchymal stem/stromal cells from risk-stratified acute myeloid leukemia patients are anti-inflammatory in in vivo preclinical models of hematopoietic reconstitution and severe colitis. Haematologica, 2019, 104, e54-e58.	3.5	12

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37	Exofucosylation of Adipose Mesenchymal Stromal Cells Alters Their Secretome Profile. Frontiers in Cell and Developmental Biology, 2020, 8, 584074.	3.7	12
38	In vitro adherence of lymphocytes to dermal endothelium under shear stress: implications in pathobiology and steroid therapy of acute cutaneous GVHD. Blood, 2003, 101, 771-778.	1.4	11
39	Molecular Biology of the Human and Mouse MHC Class III Genes: Phylogenetic Conservation, Genetics and Regulation of Expression. Immunological Reviews, 1985, 87, 185-208.	6.0	9
40	Western Blot Analysis of Adhesive Interactions under Fluid Shear Conditions: The Blot Rolling Assay. Methods in Molecular Biology, 2009, 536, 343-354.	0.9	8
41	Leptin secreted from testicular microenvironment modulates hedgehog signaling to augment the endogenous function of Leydig cells. Cell Death and Disease, 2022, 13, 208.	6.3	7
42	The Blot Rolling Assay: A Method for Identifying Adhesion Molecules Mediating Binding Under Shear Conditions. , 2006, 341, 217-226.		6
43	Identification of Î±1,2-fucosylated signaling and adhesion molecules in head and neck squamous cell carcinoma. Glycobiology, 2022, 32, 441-455.	2.5	6
44	Repurposing of Anticancer Stem Cell Drugs in Brain Tumors. Journal of Histochemistry and Cytochemistry, 2021, 69, 002215542110254.	2.5	5
45	sLeX Expression Delineates Distinct Functional Subsets of Human Blood Central and Effector Memory T Cells. Journal of Immunology, 2020, 205, 1920-1932.	0.8	3
46	Fucosyltransferase-specific inhibition via next generation of fucose mimetics. Chemical Communications, 2021, 57, 1145-1148.	4.1	3
47	Western Blot Analysis of Adhesive Interactions Under Fluid Shear Conditions: The Blot Rolling Assay. Methods in Molecular Biology, 2015, 1312, 399-410.	0.9	2
48	Translational glycobiology: Patient-oriented glycoscience research. Glycobiology, 2016, 26, 544-545.	2.5	2
49	Hitting the sweet spot for lymphoma. Blood, 2010, 115, 4626-4627.	1.4	1
50	Development of Late over Early Full Donor Chimerism (FDC) Results in Improved Progression-Free and Overall Survival in Patients with Advanced Malignant Lymphomas Receiving Nonmyeloablative Allogeneic Hematopoietic Stem Cell Transplantation (HSCT).. Blood, 2005, 106, 3665-3665.	1.4	0
51	HCELL Is the Major E- and L-Selectin Ligand Expressed on Human Hematopoietic Progenitor Cells and Colon Carcinoma Cells.. Blood, 2006, 108, 4177-4177.	1.4	0
52	Abstract 2400: Fucosyltransferase expression is associated with head and neck cancer survival. Cancer Research, 2022, 82, 2400-2400.	0.9	0