

Lubor Borsig

List of Publications by Year in descending order

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116
papers

7,807
citations

57631

44
h-index

49773

87
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118
all docs

118
docs citations

118
times ranked

9933
citing authors

#	ARTICLE	IF	CITATIONS
1	Heparin and cancer revisited: Mechanistic connections involving platelets, P-selectin, carcinoma mucins, and tumor metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 3352-3357.	3.3	629
2	P-selectin deficiency attenuates tumor growth and metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 9325-9330.	3.3	409
3	Selectins promote tumor metastasis. <i>Seminars in Cancer Biology</i> , 2010, 20, 169-177.	4.3	381
4	Cancer Cell Adhesion and Metastasis: Selectins, Integrins, and the Inhibitory Potential of Heparins. <i>International Journal of Cell Biology</i> , 2012, 2012, 1-10.	1.0	378
5	Synergistic effects of L- and P-selectin in facilitating tumor metastasis can involve non-mucin ligands and implicate leukocytes as enhancers of metastasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 2193-2198.	3.3	364
6	Altered Tumor-Cell Glycosylation Promotes Metastasis. <i>Frontiers in Oncology</i> , 2014, 4, 28.	1.3	308
7	Endothelial CCR2 Signaling Induced by Colon Carcinoma Cells Enables Extravasation via the JAK2-Stat5 and p38MAPK Pathway. <i>Cancer Cell</i> , 2012, 22, 91-105.	7.7	256
8	Selectin-mucin interactions as a probable molecular explanation for the association of Trousseau syndrome with mucinous adenocarcinomas. <i>Journal of Clinical Investigation</i> , 2003, 112, 853-862.	3.9	221
9	P-selectin mediates the adhesion of sickle erythrocytes to the endothelium. <i>Blood</i> , 2001, 98, 1955-1962.	0.6	203
10	Gut microbiota modulate T cell trafficking into human colorectal cancer. <i>Gut</i> , 2018, 67, 1984-1994.	6.1	189
11	Inflammatory chemokines and metastasis—tracing the accessory. <i>Oncogene</i> , 2014, 33, 3217-3224.	2.6	182
12	Distinct Selectin Ligands on Colon Carcinoma Mucins Can Mediate Pathological Interactions among Platelets, Leukocytes, and Endothelium. <i>American Journal of Pathology</i> , 1999, 155, 461-472.	1.9	174
13	Selectin Blocking Activity of a Fucosylated Chondroitin Sulfate Glycosaminoglycan from Sea Cucumber. <i>Journal of Biological Chemistry</i> , 2007, 282, 14984-14991.	1.6	167
14	The role of platelet activation in tumor metastasis. <i>Expert Review of Anticancer Therapy</i> , 2008, 8, 1247-1255.	1.1	165
15	Altered Cell Adhesion and Glycosylation Promote Cancer Immune Suppression and Metastasis. <i>Frontiers in Immunology</i> , 2019, 10, 2120.	2.2	153
16	L-Selectin Facilitation of Metastasis Involves Temporal Induction of Fut7-Dependent Ligands at Sites of Tumor Cell Arrest. <i>Cancer Research</i> , 2006, 66, 1536-1542.	0.4	140
17	Selectin-mucin interactions as a probable molecular explanation for the association of Trousseau syndrome with mucinous adenocarcinomas. <i>Journal of Clinical Investigation</i> , 2003, 112, 853-862.	3.9	138
18	Selectin-mediated activation of endothelial cells induces expression of CCL5 and promotes metastasis through recruitment of monocytes. <i>Blood</i> , 2009, 114, 4583-4591.	0.6	127

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19	A Dual Role of Caspase-8 in Triggering and Sensing Proliferation-Associated DNA Damage, a Key Determinant of Liver Cancer Development. <i>Cancer Cell</i> , 2017, 32, 342-359.e10.	7.7	122
20	CCL2-CCR2 Signaling in Disease Pathogenesis. <i>Endocrine, Metabolic and Immune Disorders - Drug Targets</i> , 2015, 15, 105-118.	0.6	121
21	Selectins in cancer immunity. <i>Glycobiology</i> , 2018, 28, 648-655.	1.3	118
22	P-selectin and heparanase-dependent antimetastatic activity of non-anticoagulant heparins. <i>FASEB Journal</i> , 2007, 21, 3562-3572.	0.2	117
23	Tumor attenuation by combined heparan sulfate and polyamine depletion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 371-376.	3.3	114
24	Milk sialyllactose influences colitis in mice through selective intestinal bacterial colonization. <i>Journal of Experimental Medicine</i> , 2010, 207, 2843-2854.	4.2	110
25	Heparin attenuates metastasis mainly due to inhibition of P- and L-selectin, but non-anticoagulant heparins can have additional effects. <i>Thrombosis Research</i> , 2007, 120, S107-S111.	0.8	106
26	Increased primary tumor growth in mice null for $\alpha 3$ - or $\alpha 3/\alpha 5$ -integrins or selectins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 763-768.	3.3	99
27	Antimetastatic activities of heparins and modified heparins. Experimental evidence. <i>Thrombosis Research</i> , 2010, 125, S66-S71.	0.8	93
28	Cell-Specific and Nuclear Targeting with $[M(CO)_3]^+$ (M=99mTc, Re)-Based Complexes Conjugated to Acridine Orange and Bombesin. <i>Chemistry - A European Journal</i> , 2007, 13, 3842-3852.	1.7	92
29	A novel carbohydrate-deficient glycoprotein syndrome characterized by a deficiency in glucosylation of the dolichol-linked oligosaccharide.. <i>Journal of Clinical Investigation</i> , 1998, 102, 647-652.	3.9	90
30	Milk oligosaccharide sialyl($\beta 2,3$)lactose activates intestinal CD11c ⁺ cells through TLR4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17444-17449.	3.3	89
31	Volatile Anesthetics Reduce Invasion of Colorectal Cancer Cells through Down-regulation of Matrix Metalloproteinase-9. <i>Anesthesiology</i> , 2012, 117, 293-301.	1.3	79
32	P-selectin mediates metastatic progression through binding to sulfatides on tumor cells. <i>Glycobiology</i> , 2007, 17, 185-196.	1.3	75
33	Ascidian dermatan sulfates attenuate metastasis, inflammation and thrombosis by inhibition of P-selectin. <i>Journal of Thrombosis and Haemostasis</i> , 2011, 9, 1807-1815.	1.9	73
34	Commensal Clostridiales strains mediate effective anti-cancer immune response against solid tumors. <i>Cell Host and Microbe</i> , 2021, 29, 1573-1588.e7.	5.1	71
35	Selectins as Mediators of Lung Metastasis. <i>Cancer Microenvironment</i> , 2010, 3, 97-105.	3.1	70
36	Breastfed at Tiffany's. <i>Trends in Biochemical Sciences</i> , 2016, 41, 508-518.	3.7	69

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37	Heparin as an Inhibitor of Cancer Progression. <i>Progress in Molecular Biology and Translational Science</i> , 2010, 93, 335-349.	0.9	67
38	Poly(ADP-Ribose) Polymerase 1 Promotes Tumor Cell Survival by Coactivating Hypoxia-Inducible Factor-1-Dependent Gene Expression. <i>Molecular Cancer Research</i> , 2008, 6, 282-290.	1.5	64
39	Prolyl-4-hydroxylase PHD2- and hypoxia-inducible factor 2-dependent regulation of amphiregulin contributes to breast tumorigenesis. <i>Oncogene</i> , 2011, 30, 548-560.	2.6	63
40	Monocyte Induction of E-Selectin-Mediated Endothelial Activation Releases VE-Cadherin Junctions to Promote Tumor Cell Extravasation in the Metastasis Cascade. <i>Cancer Research</i> , 2016, 76, 5302-5312.	0.4	61
41	Antimetastatic Activities of Modified Heparins: Selectin Inhibition by Heparin Attenuates Metastasis. <i>Seminars in Thrombosis and Hemostasis</i> , 2007, 33, 540-546.	1.5	53
42	Antitumor properties of a new non-anticoagulant heparin analog from the mollusk <i>Nodipecten nodosus</i> : Effect on P-selectin, heparanase, metastasis and cellular recruitment. <i>Glycobiology</i> , 2015, 25, 386-393.	1.3	50
43	An IL-2-grafted antibody immunotherapy with potent efficacy against metastatic cancer. <i>Nature Communications</i> , 2020, 11, 6440.	5.8	48
44	Recombinant Soluble beta-1,4-Galactosyltransferases Expressed in <i>Saccharomyces cerevisiae</i> . Purification, Characterization and Comparison with Human Enzyme. <i>FEBS Journal</i> , 1996, 239, 340-348.	0.2	47
45	Selectins Facilitate Carcinoma Metastasis and Heparin Can Prevent Them. <i>Physiology</i> , 2004, 19, 16-21.	1.6	47
46	VCAM-1 directed target-sensitive liposomes carrying CCR2 antagonists bind to activated endothelium and reduce adhesion and transmigration of monocytes. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 89, 18-29.	2.0	47
47	Sulfated Hexasaccharides Attenuate Metastasis by Inhibition of P-selectin and Heparanase. <i>Neoplasia</i> , 2011, 13, 445-452.	2.3	45
48	Single cell polarity in liquid phase facilitates tumour metastasis. <i>Nature Communications</i> , 2018, 9, 887.	5.8	45
49	IL17A-Mediated Endothelial Breach Promotes Metastasis Formation. <i>Cancer Immunology Research</i> , 2016, 4, 26-32.	1.6	40
50	Metal Complex Mediated Conjugation of Peptides to Nucleus Targeting Acridine Orange: A Modular Concept for Dual-Modality Imaging Agents. <i>Bioconjugate Chemistry</i> , 2011, 22, 958-967.	1.8	39
51	Localization of alpha 1,3-fucosyltransferase VI in Weibel-Palade bodies of human endothelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000, 97, 8369-8374.	3.3	38
52	Trafficking and localization studies of recombinant alpha1, 3- fucosyltransferase VI stably expressed in CHO cells. <i>Glycobiology</i> , 1998, 8, 259-268.	1.3	37
53	Increasing the Antitumor Effect of an EpCAM-Targeting Fusion Toxin by Facile Click PEGylation. <i>Molecular Cancer Therapeutics</i> , 2014, 13, 375-385.	1.9	37
54	Nuclear heparanase-1 activity suppresses melanoma progression via its DNA-binding affinity. <i>Oncogene</i> , 2015, 34, 5832-5842.	2.6	37

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55	CCL2 Is a Vascular Permeability Factor Inducing CCR2-Dependent Endothelial Retraction during Lung Metastasis. <i>Molecular Cancer Research</i> , 2019, 17, 783-793.	1.5	37
56	The role of VLA-4 binding for experimental melanoma metastasis and its inhibition by heparin. <i>Thrombosis Research</i> , 2014, 133, 855-862.	0.8	34
57	Ontogenetic regulation of leukocyte recruitment in mouse yolk sac vessels. <i>Blood</i> , 2013, 121, e118-e128.	0.6	31
58	Metastatic Growth Progression Caused by PSGL-1-Mediated Recruitment of Monocytes to Metastatic Sites. <i>Cancer Research</i> , 2014, 74, 695-704.	0.4	28
59	Scaled-Up Expression of Human α 2,6(N)Sialyltransferase in <i>Saccharomyces cerevisiae</i> . <i>Biochemical and Biophysical Research Communications</i> , 1995, 210, 14-20.	1.0	27
60	Targeted delivery of CCR2 antagonist to activated pulmonary endothelium prevents metastasis. <i>Journal of Controlled Release</i> , 2015, 220, 341-347.	4.8	27
61	Targeting of CCL2-CCR2-Glycosaminoglycan Axis Using a CCL2 Decoy Protein Attenuates Metastasis through Inhibition of Tumor Cell Seeding. <i>Neoplasia</i> , 2016, 18, 49-59.	2.3	27
62	Inhibitory effect of non-anticoagulant heparin (S-NACH) on pancreatic cancer cell adhesion and metastasis in human umbilical cord vessel segment and in mouse model. <i>Clinical and Experimental Metastasis</i> , 2012, 29, 431-439.	1.7	26
63	Trifunctional ^{99m}Tc based radiopharmaceuticals: metal-mediated conjugation of a peptide with a nucleus targeting intercalator. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 1071-1078.	1.5	25
64	Complete absence of the α Gal xenoantigen and isoglobotrihexosylceramide in α 1,3galactosyltransferase knock-out pigs. <i>Xenotransplantation</i> , 2012, 19, 196-206.	1.6	25
65	Heparins Attenuate Cancer Metastasis: Are Selectins the Link?. <i>Cancer Investigation</i> , 2009, 27, 474-481.	0.6	23
66	Hypoxia attenuates the proinflammatory response in colon cancer cells by regulating HIF^{β} . <i>Oncotarget</i> , 2015, 6, 20288-20301.	0.8	23
67	α 1,3Fucosyltransferase VI is expressed in HepG2 cells and codistributed with α 1,4galactosyltransferase I in the Golgi apparatus and monensin-induced swollen vesicles. <i>Glycobiology</i> , 1999, 9, 1273-1280.	1.3	22
68	Immunodetection of alpha 1-3 fucosyltransferase (FucT-V). <i>European Journal of Cell Biology</i> , 1996, 70, 42-53.	1.6	21
69	Deletion of L-Selectin Increases Atherosclerosis Development in ApoE $^{-/-}$ Mice. <i>PLoS ONE</i> , 2011, 6, e21675.	1.1	18
70	Analysis of SM4 sulfatide as a P-selectin ligand using model membranes. <i>Biophysical Chemistry</i> , 2010, 150, 98-104.	1.5	17
71	Expression and Purification of His-Tagged α 2-1,4-Galactosyltransferase in Yeast and in COS Cells. <i>Biochemical and Biophysical Research Communications</i> , 1997, 240, 586-589.	1.0	16
72	Transcription factor c-Myb inhibits breast cancer lung metastasis by suppression of tumor cell seeding. <i>Oncogene</i> , 2018, 37, 1020-1030.	2.6	16

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73	Decoding breast milk oligosaccharides. <i>Swiss Medical Weekly</i> , 2014, 144, w13927.	0.8	14
74	Molecular Basis of Metastasis. <i>New England Journal of Medicine</i> , 2009, 360, 1678-1680.	13.9	12
75	Stromal Expression of Activated Leukocyte Cell Adhesion Molecule Promotes Lung Tumor Growth and Metastasis. <i>American Journal of Pathology</i> , 2017, 187, 2558-2569.	1.9	12
76	c-Myb interferes with inflammatory IL1 β -NF κ B pathway in breast cancer cells. <i>Neoplasia</i> , 2021, 23, 326-336.	2.3	12
77	Antimetastatic Properties of Low Molecular Weight Heparin. <i>Journal of Clinical Oncology</i> , 2016, 34, 2560-2561.	0.8	10
78	Low infiltration of tumor-associated macrophages in high c-Myb-expressing breast tumors. <i>Scientific Reports</i> , 2019, 9, 11634.	1.6	10
79	Identification of Whole-Serum Glycobiomarkers for Colorectal Carcinoma Using Reverse-Phase Lectin Microarray. <i>Frontiers in Oncology</i> , 2021, 11, 735338.	1.3	10
80	Non-Anticoagulant Effects of Heparin in Carcinoma Metastasis and Trousseau's Syndrome. Pathophysiology of Haemostasis and Thrombosis: International Journal on Haemostasis and Thrombosis Research, 2003, 33, 64-66.	0.5	9
81	A novel pVHL-independent but NEMO-driven pathway in renal cancer promotes HIF stabilization. <i>Oncogene</i> , 2016, 35, 3125-3138.	2.6	9
82	Sulfated fucans and a sulfated galactan from sea urchins as potent inhibitors of selectin-dependent hematogenous metastasis. <i>Glycobiology</i> , 2018, 28, 427-434.	1.3	9
83	Analysis of serum glycome by lectin microarrays for prostate cancer patients - a search for aberrant glycoforms. <i>Glycoconjugate Journal</i> , 2020, 37, 703-711.	1.4	9
84	Tumor cell endogenous HIF-1 β activity induces aberrant angiogenesis and interacts with TRAF6 pathway required for colorectal cancer development. <i>Neoplasia</i> , 2020, 22, 745-758.	2.3	9
85	Transcriptional signature induced by a metastasis-promoting c- Src mutant in a human breast cell line. <i>FEBS Journal</i> , 2016, 283, 1669-1688.	2.2	8
86	Non-Anticoagulant Heparan Sulfate from the Ascidian <i>Phallusia nigra</i> Prevents Colon Carcinoma Metastasis in Mice by Disrupting Platelet-Tumor Cell Interaction. <i>Cancers</i> , 2020, 12, 1353.	1.7	8
87	Heparanase in Cancer Metastasis – Heparin as a Potential Inhibitor of Cell Adhesion Molecules. <i>Advances in Experimental Medicine and Biology</i> , 2020, 1221, 309-329.	0.8	8
88	Pathways of metastasizing intestinal cancer cells revealed: how will fighting metastases at the site of cancer cell arrest affect drug development?. <i>Future Oncology</i> , 2013, 9, 1-4.	1.1	7
89	Custom Glycosylation of Cells and Proteins Using Cyclic Carbamate-Derivatized Oligosaccharides. <i>Cell Chemical Biology</i> , 2017, 24, 1336-1346.e3.	2.5	5
90	Pictures in Molecular Medicine: Three-dimensional visualization of intravascular tumor cells in mice. <i>Trends in Molecular Medicine</i> , 2001, 7, 377.	3.5	4

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91	VWF fibers induce thrombosis during cancer. <i>Blood</i> , 2015, 125, 3042-3043.	0.6	4
92	Tunicate Heparan Sulfate Enriched in 2-Sulfated \hat{I}^2 -Glucuronic Acid: Structure, Anticoagulant Activity, and Inhibitory Effect on the Binding of Human Colon Adenocarcinoma Cells to Immobilized P-Selectin. <i>Marine Drugs</i> , 2019, 17, 351.	2.2	4
93	Glycans in Cancer. , 2011, , 63-81.		4
94	Abstract 1001: Gut microbiota modulate T cell trafficking into human colorectal cancer. , 2018, , .		4
95	Transcription factor c-Myb: novel prognostic factor in osteosarcoma. <i>Clinical and Experimental Metastasis</i> , 2022, 39, 375-390.	1.7	4
96	Identification of TPM2 and CNN1 as Novel Prognostic Markers in Functionally Characterized Human Colon Cancer-Associated Stromal Cells. <i>Cancers</i> , 2022, 14, 2024.	1.7	4
97	Endothelial chemokine receptors as facilitators of tumor cell extravasation?. <i>Oncotarget</i> , 2012, 3, 919-920.	0.8	3
98	Overexpression of adaptor protein Ruk/CIN85 in mouse breast adenocarcinoma 4T1 cells induces an increased migration rate and invasion potential. <i>Biopolymers and Cell</i> , 2018, 34, 284-291.	0.1	3
99	Cell Adhesion During Tumorigenesis and Metastasis. , 2017, , .		2
100	Inhibition of chemokine receptor CCR2 reduces sarcoma cell transendothelial migration and metastasis to the lungs. <i>International Journal of Clinical Pharmacology and Therapeutics</i> , 2015, 53, 1046-1048.	0.3	2
101	TGF \hat{I}^2 Signaling in Myeloid Cells Promotes Lung and Liver Metastasis Through Different Mechanisms. <i>Frontiers in Oncology</i> , 2021, 11, 765151.	1.3	2
102	PO-81 Oversulfated dermatan sulfate (DS) from ascidians, but not mammalian DS, inhibit P-selectin in vitro and metastasis in vivo. <i>Thrombosis Research</i> , 2010, 125, S188.	0.8	1
103	Abstract 1275: Chemotactic factors underlying tumor infiltration by immunocompetent cells in colorectal cancer. <i>Cancer Research</i> , 2015, 75, 1275-1275.	0.4	1
104	Selectins, Heparins, and Cancer: Rationale for Clinical Trials.. <i>Blood</i> , 2008, 112, sci-20-sci-20.	0.6	1
105	The Solute Carrier MFSD1 Decreases the Activation Status of \hat{I}^21 Integrin and Thus Tumor Metastasis. <i>Frontiers in Oncology</i> , 2022, 12, 777634.	1.3	1
106	Mo1737 Role of Sialylation by St3gal4 Sialyltransferase in Mouse Models of Colitis. <i>Gastroenterology</i> , 2012, 142, S-673.	0.6	0
107	370: Lymphotoxin signalling alters the vasculature to increase tumour cell metastasis. <i>European Journal of Cancer</i> , 2014, 50, S88.	1.3	0
108	PO-187 Liquid-phase polarity facilitates attachment, adhesion and metastasis of tumour cells. <i>ESMO Open</i> , 2018, 3, A94.	2.0	0

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109	Abstract 2363: Dual effects of unique oversulfated dermatan sulfates from ascidians (Chordata-Tunicata) on tumor invasion: inhibition of epithelial-mesenchymal transition and hematogeneous metastasis. , 2011, , .		0
110	Stage dependent increase of CCL2 and CCL5 in peripheral blood of colorectal cancer patients.. Journal of Clinical Oncology, 2015, 33, e22111-e22111.	0.8	0
111	Abstract B44: Sulfated fucan inhibits tumor interaction with endothelial cells and tumor growth: Possible contribution of an antivascular endothelial growth factor (VEGF) neutralizing activity. , 2016, , .		0
112	Abstract 1582: Tumor-associated stromal cells increase malignancy of human colorectal cancers triggering EMT induction. Cancer Research, 2016, 76, 1582-1582.	0.4	0
113	Abstract A123: Modulation of immune cell trafficking into human colorectal cancer by gut microbiota. , 2016, , .		0
114	Abstract 952: Modulation of immune cell trafficking into human colorectal cancer by gut microbiota. , 2017, , .		0
115	Abstract 2821: Gut commensal bacteria modulate functions of tumor-associated neutrophils in human colorectal cancer. , 2019, , .		0
116	Abstract 2821: Gut commensal bacteria modulate functions of tumor-associated neutrophils in human colorectal cancer. , 2019, , .		0