

Shamgar Ben-Eliyahu

List of Publications by Year in descending order

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106
papers

7,866
citations

47006

47
h-index

49909

87
g-index

112
all docs

112
docs citations

112
times ranked

5478
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence that stress and surgical interventions promote tumor development by suppressing natural killer cell activity. <i>International Journal of Cancer</i> , 1999, 80, 880-888.	5.1	359
2	Suppression of Natural Killer Cell Activity and Promotion of Tumor Metastasis by Ketamine, Thiopental, and Halothane, but Not by Propofol: Mediating Mechanisms and Prophylactic Measures. <i>Anesthesia and Analgesia</i> , 2003, 97, 1331-1339.	2.2	358
3	Exploiting the critical perioperative period to improve long-term cancer outcomes. <i>Nature Reviews Clinical Oncology</i> , 2015, 12, 213-226.	27.6	352
4	Potential Prophylactic Measures Against Postoperative Immunosuppression: Could They Reduce Recurrence Rates in Oncological Patients?. <i>Annals of Surgical Oncology</i> , 2003, 10, 972-992.	1.5	294
5	Excitatory amino acid antagonists (kynurenic acid and MK-801) attenuate the development of morphine tolerance in the rat. <i>Brain Research</i> , 1991, 547, 81-88.	2.2	262
6	Perioperative Use of β -blockers and COX-2 Inhibitors May Improve Immune Competence and Reduce the Risk of Tumor Metastasis. <i>Annals of Surgical Oncology</i> , 2008, 15, 2042-2052.	1.5	251
7	Evidence that postoperative pain is a mediator of the tumor-promoting effects of surgery in rats. <i>Pain</i> , 2001, 90, 191-199.	4.2	250
8	Attenuation of the Tumor-promoting Effect of Surgery by Spinal Blockade in Rats. <i>Anesthesiology</i> , 2001, 94, 1066-1073.	2.5	250
9	Improving Postoperative Immune Status and Resistance to Cancer Metastasis. <i>Annals of Surgery</i> , 2011, 253, 798-810.	4.2	215
10	Improving Survival Rates in Two Models of Spontaneous Postoperative Metastasis in Mice by Combined Administration of a β -Adrenergic Antagonist and a Cyclooxygenase-2 Inhibitor. <i>Journal of Immunology</i> , 2010, 184, 2449-2457.	0.8	213
11	The promotion of tumor metastasis by surgery and stress: Immunological basis and implications for psychoneuroimmunology. <i>Brain, Behavior, and Immunity</i> , 2003, 17, 27-36.	4.1	210
12	Suppression of NK Cell Activity and of Resistance to Metastasis by Stress: A Role for Adrenal Catecholamines and β -Adrenoceptors. <i>NeuroImmunoModulation</i> , 2000, 8, 154-164.	1.8	199
13	Perioperative COX-2 and β -Adrenergic Blockade Improves Metastatic Biomarkers in Breast Cancer Patients in a Phase-II Randomized Trial. <i>Clinical Cancer Research</i> , 2017, 23, 4651-4661.	7.0	194
14	Marginating pulmonary-NK activity and resistance to experimental tumor metastasis: suppression by surgery and the prophylactic use of a β -adrenergic antagonist and a prostaglandin synthesis inhibitor. <i>Brain, Behavior, and Immunity</i> , 2005, 19, 114-126.	4.1	189
15	Surgery and stress promote cancer metastasis: New outlooks on perioperative mediating mechanisms and immune involvement. <i>Brain, Behavior, and Immunity</i> , 2013, 30, S32-S40.	4.1	177
16	Effects of Fentanyl on Natural Killer Cell Activity and on Resistance to Tumor Metastasis in Rats. <i>NeuroImmunoModulation</i> , 2004, 11, 255-260.	1.8	169
17	Morphine attenuates surgery-induced enhancement of metastatic colonization in rats. <i>Pain</i> , 1993, 54, 21-28.	4.2	151
18	Can regional analgesia reduce the risk of recurrence after breast cancer?. <i>Contemporary Clinical Trials</i> , 2008, 29, 517-526.	1.8	149

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19	Blood Transfusion Promotes Cancer Progression: A Critical Role for Aged Erythrocytes. <i>Anesthesiology</i> , 2008, 109, 989-997.	2.5	144
20	The NMDA receptor antagonist MK-801 prevents long-lasting non-associative morphine tolerance in the rat. <i>Brain Research</i> , 1992, 575, 304-308.	2.2	135
21	Delayed application of MK-801 attenuates development of morphine tolerance in rats. <i>Brain Research</i> , 1991, 558, 163-165.	2.2	128
22	Acute alcohol intoxication suppresses natural killer cell activity and promotes tumor metastasis. <i>Nature Medicine</i> , 1996, 2, 457-460.	30.7	116
23	Prostaglandin E2 Suppresses NK Activity In Vivo and Promotes Postoperative Tumor Metastasis in Rats. <i>Annals of Surgical Oncology</i> , 2003, 10, 469-479.	1.5	113
24	Differential behavioural and hormonal responses of voles and spiny mice to owl calls. <i>Animal Behaviour</i> , 1999, 58, 1085-1093.	1.9	112
25	The Effects of Sex, Menstrual Cycle, and Oral Contraceptives on the Number and Activity of Natural Killer Cells. <i>Gynecologic Oncology</i> , 2001, 81, 254-262.	1.4	110
26	Stress and cancer: mechanisms, significance and future directions. <i>Nature Reviews Cancer</i> , 2021, 21, 767-785.	28.4	107
27	Hypothermia in Barbiturate-anesthetized Rats Suppresses Natural Killer Cell Activity and Compromises Resistance to Tumor Metastasis. <i>Anesthesiology</i> , 1999, 91, 732-732.	2.5	96
28	Do Stress Responses Promote Leukemia Progression? An Animal Study Suggesting a Role for Epinephrine and Prostaglandin-E2 through Reduced NK Activity. <i>PLoS ONE</i> , 2011, 6, e19246.	2.5	96
29	A New Approach to Reducing Postsurgical Cancer Recurrence: Perioperative Targeting of Catecholamines and Prostaglandins. <i>Clinical Cancer Research</i> , 2012, 18, 4895-4902.	7.0	94
30	Social confrontation and tumor metastasis in rats: Defeat and β^2 -adrenergic mechanisms. <i>Physiology and Behavior</i> , 1996, 60, 277-282.	2.1	92
31	Dexmedetomidine promotes metastasis in rodent models of breast, lung, and colon cancers. <i>British Journal of Anaesthesia</i> , 2018, 120, 188-196.	3.4	83
32	Immune perturbations in patients along the perioperative period: Alterations in cell surface markers and leukocyte subtypes before and after surgery. <i>Brain, Behavior, and Immunity</i> , 2010, 24, 376-386.	4.1	80
33	Differences in number and activity of peripheral natural killer cells in primary versus secondary recurrent miscarriage. <i>Fertility and Sterility</i> , 2003, 80, 368-375.	1.0	76
34	Stress, NK cells, and cancer: Still a promissory note. <i>Brain, Behavior, and Immunity</i> , 2007, 21, 881-887.	4.1	71
35	Perioperative COX2 and β^2 -adrenergic blockade improves biomarkers of tumor metastasis, immunity, and inflammation in colorectal cancer: A randomized controlled trial. <i>Cancer</i> , 2020, 126, 3991-4001.	4.1	68
36	Immune suppression while awaiting surgery and following it: Dissociations between plasma cytokine levels, their induced production, and NK cell cytotoxicity. <i>Brain, Behavior, and Immunity</i> , 2007, 21, 503-513.	4.1	66

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37	In vivo suppression of NK cell cytotoxicity by stress and surgery: Glucocorticoids have a minor role compared to catecholamines and prostaglandins. <i>Brain, Behavior, and Immunity</i> , 2014, 37, 207-219.	4.1	62
38	Reducing liver metastases of colon cancer in the context of extensive and minor surgeries through β_2 -adrenoceptors blockade and COX2 inhibition. <i>Brain, Behavior, and Immunity</i> , 2016, 58, 91-98.	4.1	62
39	Perioperative inhibition of β_2 -adrenergic and COX2 signaling in a clinical trial in breast cancer patients improves tumor Ki-67 expression, serum cytokine levels, and PBMCs transcriptome. <i>Brain, Behavior, and Immunity</i> , 2018, 73, 294-309.	4.1	61
40	The immune-suppressive nature of pain. <i>Seminars in Oncology Nursing</i> , 1997, 13, 10-15.	1.5	60
41	Serum levels of sex hormones and corticosterone throughout 4- and 5-day estrous cycles in Fischer 344 rats and their simulation in ovariectomized females. <i>Journal of Endocrinological Investigation</i> , 2003, 26, 1013-1022.	3.3	60
42	Harnessing cancer immunotherapy during the unexploited immediate perioperative period. <i>Nature Reviews Clinical Oncology</i> , 2020, 17, 313-326.	27.6	60
43	Morphine fails to produce tolerance when administered in the presence of formalin pain in rats. <i>Brain Research</i> , 1993, 627, 287-290.	2.2	59
44	Higher Natural Killer Cell Activity in Schizophrenic Patients: The Impact of Serum Factors, Medication, and Smoking. <i>Brain, Behavior, and Immunity</i> , 2000, 14, 153-169.	4.1	56
45	Hormonal changes affect the bone and bone marrow cells in a rat model. <i>Journal of Cellular Biochemistry</i> , 2000, 79, 407-415.	2.6	50
46	Stimulation of the hypothalamic paraventricular nucleus produces analgesia not mediated by vasopressin or endogenous opioids. <i>Brain Research</i> , 1990, 537, 169-174.	2.2	48
47	Ethanol increases tumor progression in rats: Possible involvement of natural killer cells. <i>Brain, Behavior, and Immunity</i> , 1992, 6, 74-86.	4.1	48
48	Perioperative biobehavioral interventions to prevent cancer recurrence through combined inhibition of β_2 -adrenergic and cyclooxygenase 2 signaling. <i>Cancer</i> , 2019, 125, 45-56.	4.1	48
49	Intraoperative use of dexmedetomidine is associated with decreased overall survival after lung cancer surgery. <i>Journal of Anaesthesiology Clinical Pharmacology</i> , 2017, 33, 317.	0.7	44
50	Prophylactic TLR9 stimulation reduces brain metastasis through microglia activation. <i>PLoS Biology</i> , 2019, 17, e2006859.	5.6	40
51	N-methyl-d-aspartic acid (NMDA) receptor antagonist MK-801 blocks non-opioid stress-induced analgesia. I. Comparison of opiate receptor-deficient and opiate receptor-rich strains of mice. <i>Brain Research</i> , 1991, 551, 293-296.	2.2	39
52	High NK cell activity in recurrent miscarriage: what are we really measuring?. <i>Human Reproduction</i> , 2006, 21, 2421-2425.	0.9	39
53	Perioperative treatment with the new synthetic β_2 agonist β_2 agonist reduces cancer metastasis without adverse effects. <i>International Journal of Cancer</i> , 2016, 138, 1754-1764.	5.1	38
54	Stress-induced suppression of natural killer cell cytotoxicity in the rat: A naltrexone-insensitive paradigm.. <i>Behavioral Neuroscience</i> , 1990, 104, 235-238.	1.2	37

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55	Characterization of stimulation-produced analgesia from the nucleus tractus solitarius in the rat. <i>Brain Research</i> , 1989, 486, 175-180.	2.2	36
56	Increased surgery-induced metastasis and suppressed natural killer cell activity during proestrus/estrus in rats. <i>Breast Cancer Research and Treatment</i> , 1997, 45, 159-167.	2.5	33
57	CpG-C Oligodeoxynucleotides Limit the Deleterious Effects of $\hat{\imath}^2$ -adrenoceptor Stimulation on NK Cytotoxicity and Metastatic Dissemination. <i>Journal of Immunotherapy</i> , 2009, 32, 280-291.	2.4	33
58	Synergism between immunostimulation and prevention of surgery-induced immune suppression: An approach to reduce post-operative tumor progression. <i>Brain, Behavior, and Immunity</i> , 2010, 24, 952-958.	4.1	33
59	The price of anticancer intervention. Does surgery promote metastasis?. <i>Lancet Oncology</i> , The, 2002, 3, 578-9.	10.7	33
60	Continuous stress disrupts immunostimulatory effects of IL-12. <i>Brain, Behavior, and Immunity</i> , 2011, 25, 727-735.	4.1	32
61	Indomethacin attenuates the immunosuppressive and tumor-promoting effects of surgery. <i>Journal of Pain</i> , 2002, 3, 301-308.	1.4	29
62	Surgery as a Double-Edged Sword: A Clinically Feasible Approach to Overcome the Metastasis-Promoting Effects of Surgery by Blunting Stress and Prostaglandin Responses. <i>Cancers</i> , 2010, 2, 1929-1951.	3.7	29
63	Natural killer cell activity in vasopressin-deficient rats (brattleboro strain). <i>Brain Research</i> , 1989, 479, 16-22.	2.2	27
64	Derangement in stress response of apolipoprotein E-deficient mice. <i>Neuroscience Letters</i> , 1996, 206, 212-214.	2.1	27
65	Reducing the risk of post-surgical cancer recurrence: a perioperative anti-inflammatory anti-stress approach. <i>Future Oncology</i> , 2018, 14, 1017-1021.	2.4	27
66	Natural Killer Cell Activity and Resistance to Tumor Metastasis in Prepubescent Rats: Deficient Baselines, but Invulnerability to Stress and $\hat{\imath}^2$ -Adrenergic Stimulation. <i>NeuroImmunoModulation</i> , 2000, 7, 160-168.	1.8	25
67	Inducing a mode of NK-resistance to suppression by stress and surgery: A potential approach based on low dose of poly I $\hat{\imath}$ C to reduce postoperative cancer metastasis. <i>Brain, Behavior, and Immunity</i> , 2007, 21, 395-408.	4.1	25
68	Amelioration of Operation-Induced Suppression of Marginating Pulmonary NK Activity using Poly IC: A Potential Approach to Reduce Postoperative Metastasis. <i>Annals of Surgical Oncology</i> , 2007, 14, 841-852.	1.5	25
69	Resilience of the Immune System in Healthy Young Students to 30-Hour Sleep Deprivation with Psychological Stress. <i>NeuroImmunoModulation</i> , 2013, 20, 194-204.	1.8	25
70	The misleading nature of in vitro and ex vivo findings in studying the impact of stress hormones on NK cell cytotoxicity. <i>Brain, Behavior, and Immunity</i> , 2015, 45, 277-286.	4.1	24
71	A role for NK cells in greater susceptibility of young rats to metastatic formation. <i>Developmental and Comparative Immunology</i> , 1999, 23, 87-96.	2.3	23
72	The effects of a Chinese herb formula, anti-cancer number one (ACNO), on NK cell activity and tumor metastasis in rats. <i>International Immunopharmacology</i> , 2001, 1, 1947-1956.	3.8	23

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73	Metastatic-promoting effects of LPS: Sexual dimorphism and mediation by catecholamines and prostaglandins. <i>Brain, Behavior, and Immunity</i> , 2009, 23, 611-621.	4.1	21
74	The Marginating-pulmonary Immune Compartment in Rats: Characteristics of Continuous Inflammation and Activated NK Cells. <i>Journal of Immunotherapy</i> , 2010, 33, 16-29.	2.4	21
75	Tumor Excision as a Metastatic Russian Roulette: Perioperative Interventions to Improve Long-Term Survival of Cancer Patients. <i>Trends in Cancer</i> , 2020, 6, 951-959.	7.4	21
76	Prophylactic IL-12 treatment reduces postoperative metastasis: mediation by increased numbers but not cytotoxicity of NK cells. <i>Breast Cancer Research and Treatment</i> , 2008, 107, 211-223.	2.5	20
77	Plasma IL-12 levels are suppressed in vivo by stress and surgery through endogenous release of glucocorticoids and prostaglandins but not catecholamines or opioids. <i>Psychoneuroendocrinology</i> , 2014, 42, 11-23.	2.7	20
78	Sensory Deprivation Triggers Synaptic and Intrinsic Plasticity in the Hippocampus. <i>Cerebral Cortex</i> , 2017, 27, 3457-3470.	2.9	20
79	PGE2 suppresses NK activity in vivo directly and through adrenal hormones: Effects that cannot be reflected by ex vivo assessment of NK cytotoxicity. <i>Brain, Behavior, and Immunity</i> , 2013, 28, 128-138.	4.1	19
80	The development of sexual dimorphism in natural killer cell activity and resistance to tumor metastasis in the Fischer 344 rat. <i>Journal of Neuroimmunology</i> , 1995, 63, 69-77.	2.3	18
81	Maleâ€“female differences in the impact of β^2 -adrenoceptor stimulation on resistance to experimental metastasis: Exploring the effects of age and gonadal hormone involvement. <i>Journal of Neuroimmunology</i> , 2008, 193, 113-119.	2.3	18
82	Fish oil attenuates surgery-induced immunosuppression, limits post-operative metastatic dissemination and increases long-term recurrence-free survival in rodents inoculated with cancer cells. <i>Clinical Nutrition</i> , 2012, 31, 396-404.	5.0	18
83	Deleterious synergistic effects of distress and surgery on cancer metastasis: Abolishment through an integrated perioperative immune-stimulating stress-inflammatory-reducing intervention. <i>Brain, Behavior, and Immunity</i> , 2019, 80, 170-178.	4.1	17
84	The Effect of Pre-operative Psychological Interventions on Psychological, Physiological, and Immunological Indices in Oncology Patients: A Scoping Review. <i>Frontiers in Psychology</i> , 2022, 13, 839065.	2.1	16
85	Diurnal changes in lung tumor clearance and their relation to NK cell cytotoxicity in the blood and spleen. <i>International Journal of Cancer</i> , 2001, 94, 401-406.	5.1	15
86	Stress and skin leukocyte trafficking as a dual-stage process. <i>Brain, Behavior, and Immunity</i> , 2012, 26, 267-276.	4.1	14
87	The impact of surgical extent and sex on the hepatic metastasis of colon cancer. <i>Surgery Today</i> , 2014, 44, 1925-1934.	1.5	14
88	Effect of beta blocker combined with COX-2 inhibitor on colonic anastomosis in rats. <i>International Journal of Colorectal Disease</i> , 2010, 25, 1459-1464.	2.2	12
89	Poly I-C Induces Early Embryo Loss in F344 Rats: a Potential Role for NK Cells. <i>American Journal of Reproductive Immunology</i> , 2005, 54, 49-53.	1.2	11
90	CpG-C immunotherapeutic efficacy is jeopardized by ongoing exposure to stress: Potential implications for clinical use. <i>Brain, Behavior, and Immunity</i> , 2011, 25, 67-76.	4.1	11

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91	Spontaneous regression of micro-metastases following primary tumor excision: a critical role for primary tumor secretome. <i>BMC Biology</i> , 2020, 18, 163.	3.8	11
92	Autologous control of a highly malignant syngeneic CRNK-16 leukemia in the rat: a role for NK cells. <i>Cancer Immunology, Immunotherapy</i> , 2006, 55, 1348-1357.	4.2	10
93	Regeneration of Functional Adrenal Tissue Following Bilateral Adrenalectomy. <i>Endocrinology</i> , 2018, 159, 248-259.	2.8	10
94	Prevention of liver metastases through perioperative acute CpG-C immune stimulation. <i>Cancer Immunology, Immunotherapy</i> , 2020, 69, 2021-2031.	4.2	9
95	Harnessing the Perioperative Period to Improve Long-term Cancer Outcomes. <i>Journal of the National Cancer Institute</i> , 2018, 110, 1137-1138.	6.3	8
96	Can we really know if a stressor increases or decreases natural killer cell activity?. <i>Brain, Behavior, and Immunity</i> , 2012, 26, 1224-1225.	4.1	7
97	The marginating-pulmonary immune compartment in mice exhibits increased NK cytotoxicity and unique cellular characteristics. <i>Immunologic Research</i> , 2014, 58, 28-39.	2.9	7
98	Anesthesiologists at work: an increase in pro-inflammatory and Th2 cytokine production, and alterations in proliferative immune responses. <i>Acta Anaesthesiologica Scandinavica</i> , 2006, 50, 1223-1228.	1.6	5
99	Maintaining unperturbed cerebral blood flow is key in the study of brain metastasis and its interactions with stress and inflammatory responses. <i>Brain, Behavior, and Immunity</i> , 2017, 62, 265-276.	4.1	5
100	The Combined Blockade of β_2 -Adrenoceptor and COX-2 During the Perioperative Period to Improve Long-term Cancer Outcomes. <i>International Anesthesiology Clinics</i> , 2016, 54, 72-91.	0.8	4
101	Heart rate variability as a predictor of disease exacerbation in pediatric inflammatory bowel disease. <i>Journal of Psychosomatic Research</i> , 2022, 158, 110911.	2.6	4
102	The Role of Perioperative Pharmacological Adjuncts in Cancer Outcomes: Beta-Adrenergic Receptor Antagonists, NSAIDs and Anti-fibrinolytics. <i>Current Anesthesiology Reports</i> , 2015, 5, 291-304.	2.0	3
103	Perioperative Stress, Inflammation, and Cancer Progression: Opportunities for Intervention in Breast and Colorectal Cancer Surgery Utilizing Beta-Adrenergic Blockade and COX-2 Inhibition. <i>Current Anesthesiology Reports</i> , 2018, 8, 386-392.	2.0	2
104	Selective Harvesting of Marginating-pulmonary Leukocytes. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	1
105	Selective Harvesting of Marginating-hepatic Leukocytes. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	1
106	Neuroendocrine Regulation of Cancer Progression: II. Immunological Mechanisms, Clinical Relevance, and Prophylactic Measures. , 2007, , 251-265.		1