

# Shamgar Ben-Eliyahu

## List of Publications by Citations

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106  
papers

6,286  
citations

43  
h-index

78  
g-index

112  
ext. papers

7,059  
ext. citations

8  
avg, IF

5.73  
L-index

#	Paper	IF	Citations
106	Evidence that stress and surgical interventions promote tumor development by suppressing natural killer cell activity. <i>International Journal of Cancer</i> , <b>1999</b> , 80, 880-8	7.5	299
105	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> , <b>2003</b> , 97, 1331-1339	3.9	269
104	Exploiting the critical perioperative period to improve long-term cancer outcomes. <i>Nature Reviews Clinical Oncology</i> , <b>2015</b> , 12, 213-26	19.4	248
103	Potential prophylactic measures against postoperative immunosuppression: could they reduce recurrence rates in oncological patients?. <i>Annals of Surgical Oncology</i> , <b>2003</b> , 10, 972-92	3.1	248
102	Excitatory amino acid antagonists (kynurenic acid and MK-801) attenuate the development of morphine tolerance in the rat. <i>Brain Research</i> , <b>1991</b> , 547, 77-81	3.7	227
101	Perioperative use of beta-blockers and COX-2 inhibitors may improve immune competence and reduce the risk of tumor metastasis. <i>Annals of Surgical Oncology</i> , <b>2008</b> , 15, 2042-52	3.1	211
100	Attenuation of the tumor-promoting effect of surgery by spinal blockade in rats. <i>Anesthesiology</i> , <b>2001</b> , 94, 1066-73	4.3	202
99	Evidence that postoperative pain is a mediator of the tumor-promoting effects of surgery in rats. <i>Pain</i> , <b>2001</b> , 90, 191-9	8	201
98	Improving survival rates in two models of spontaneous postoperative metastasis in mice by combined administration of a beta-adrenergic antagonist and a cyclooxygenase-2 inhibitor. <i>Journal of Immunology</i> , <b>2010</b> , 184, 2449-57	5.3	174
97	The promotion of tumor metastasis by surgery and stress: immunological basis and implications for psychoneuroimmunology. <i>Brain, Behavior, and Immunity</i> , <b>2003</b> , 17 Suppl 1, S27-36	16.6	172
96	Suppression of NK cell activity and of resistance to metastasis by stress: a role for adrenal catecholamines and beta-adrenoceptors. <i>NeuroImmunoModulation</i> , <b>2000</b> , 8, 154-64	2.5	170
95	Marginating pulmonary-NK activity and resistance to experimental tumor metastasis: suppression by surgery and the prophylactic use of a beta-adrenergic antagonist and a prostaglandin synthesis inhibitor. <i>Brain, Behavior, and Immunity</i> , <b>2005</b> , 19, 114-26	16.6	166
94	Improving postoperative immune status and resistance to cancer metastasis: a combined perioperative approach of immunostimulation and prevention of excessive surgical stress responses. <i>Annals of Surgery</i> , <b>2011</b> , 253, 798-810	7.8	164
93	Surgery and stress promote cancer metastasis: new outlooks on perioperative mediating mechanisms and immune involvement. <i>Brain, Behavior, and Immunity</i> , <b>2013</b> , 30 Suppl, S32-40	16.6	134
92	Effects of fentanyl on natural killer cell activity and on resistance to tumor metastasis in rats. Dose and timing study. <i>NeuroImmunoModulation</i> , <b>2004</b> , 11, 255-60	2.5	132
91	Perioperative COX-2 and $\beta$ -Adrenergic Blockade Improves Metastatic Biomarkers in Breast Cancer Patients in a Phase-II Randomized Trial. <i>Clinical Cancer Research</i> , <b>2017</b> , 23, 4651-4661	12.9	131
90	Morphine attenuates surgery-induced enhancement of metastatic colonization in rats. <i>Pain</i> , <b>1993</b> , 54, 21-28	8	124

89	The NMDA receptor antagonist MK-801 prevents long-lasting non-associative morphine tolerance in the rat. <i>Brain Research</i> , <b>1992</b> , 575, 304-8	3.7	124
88	Can regional analgesia reduce the risk of recurrence after breast cancer? Methodology of a multicenter randomized trial. <i>Contemporary Clinical Trials</i> , <b>2008</b> , 29, 517-26	2.3	120
87	Blood transfusion promotes cancer progression: a critical role for aged erythrocytes. <i>Anesthesiology</i> , <b>2008</b> , 109, 989-97	4.3	117
86	Delayed application of MK-801 attenuates development of morphine tolerance in rats. <i>Brain Research</i> , <b>1991</b> , 558, 163-5	3.7	116
85	Acute alcohol intoxication suppresses natural killer cell activity and promotes tumor metastasis. <i>Nature Medicine</i> , <b>1996</b> , 2, 457-60	50.5	106
84	Differential behavioural and hormonal responses of voles and spiny mice to owl calls. <i>Animal Behaviour</i> , <b>1999</b> , 58, 1085-1093	2.8	104
83	Prostaglandin e(2) suppresses NK activity in vivo and promotes postoperative tumor metastasis in rats. <i>Annals of Surgical Oncology</i> , <b>2003</b> , 10, 469-79	3.1	97
82	The effects of sex, menstrual cycle, and oral contraceptives on the number and activity of natural killer cells. <i>Gynecologic Oncology</i> , <b>2001</b> , 81, 254-62	4.9	95
81	Social confrontation and tumor metastasis in rats: defeat and beta-adrenergic mechanisms. <i>Physiology and Behavior</i> , <b>1996</b> , 60, 277-82	3.5	87
80	Hypothermia in barbiturate-anesthetized rats suppresses natural killer cell activity and compromises resistance to tumor metastasis: a role for adrenergic mechanisms. <i>Anesthesiology</i> , <b>1999</b> , 91, 732-40	4.3	77
79	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> , <b>2011</b> , 6, e19246	3.7	76
78	A new approach to reducing postsurgical cancer recurrence: perioperative targeting of catecholamines and prostaglandins. <i>Clinical Cancer Research</i> , <b>2012</b> , 18, 4895-902	12.9	71
77	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> , <b>2010</b> , 24, 376-86	16.6	63
76	Stress, NK cells, and cancer: Still a promissory note. <i>Brain, Behavior, and Immunity</i> , <b>2007</b> , 21, 881-7	16.6	61
75	Differences in number and activity of peripheral natural killer cells in primary versus secondary recurrent miscarriage. <i>Fertility and Sterility</i> , <b>2003</b> , 80, 368-75	4.8	61
74	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> , <b>2007</b> , 21, 503-13	16.6	60
73	Morphine fails to produce tolerance when administered in the presence of formalin pain in rats. <i>Brain Research</i> , <b>1993</b> , 627, 287-90	3.7	55
72	Higher natural killer cell activity in schizophrenic patients: the impact of serum factors, medication, and smoking. <i>Brain, Behavior, and Immunity</i> , <b>2000</b> , 14, 153-69	16.6	52

71	The immune-suppressive nature of pain. <i>Seminars in Oncology Nursing</i> , <b>1997</b> , 13, 10-5	3.7	51
70	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> , <b>2003</b> , 26, 1013-22	5.2	51
69	Hormonal changes affect the bone and bone marrow cells in a rat model. <i>Journal of Cellular Biochemistry</i> , <b>2000</b> , 79, 407-15	4.7	48
68	Stimulation of the hypothalamic paraventricular nucleus produces analgesia not mediated by vasopressin or endogenous opioids. <i>Brain Research</i> , <b>1990</b> , 537, 169-74	3.7	47
67	Dexmedetomidine promotes metastasis in rodent models of breast, lung, and colon cancers. <i>British Journal of Anaesthesia</i> , <b>2018</b> , 120, 188-196	5.4	47
66	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> , <b>2014</b> , 37, 207-19	16.6	46
65	Ethanol increases tumor progression in rats: possible involvement of natural killer cells. <i>Brain, Behavior, and Immunity</i> , <b>1992</b> , 6, 74-86	16.6	46
64	Reducing liver metastases of colon cancer in the context of extensive and minor surgeries through $\beta$ adrenoceptors blockade and COX2 inhibition. <i>Brain, Behavior, and Immunity</i> , <b>2016</b> , 58, 91-98	16.6	46
63	Perioperative inhibition of $\beta$ 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> , <b>2018</b> , 73, 294-309	16.6	40
62	Stress-induced suppression of natural killer cell cytotoxicity in the rat: A naltrexone-insensitive paradigm.. <i>Behavioral Neuroscience</i> , <b>1990</b> , 104, 235-238	2.1	37
61	High NK cell activity in recurrent miscarriage: what are we really measuring?. <i>Human Reproduction</i> , <b>2006</b> , 21, 2421-5	5.7	36
60	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> , <b>1991</b> , 551, 293-6	3.7	36
59	Characterization of stimulation-produced analgesia from the nucleus tractus solitarius in the rat. <i>Brain Research</i> , <b>1989</b> , 486, 175-80	3.7	34
58	Increased surgery-induced metastasis and suppressed natural killer cell activity during proestrus/estrus in rats. <i>Breast Cancer Research and Treatment</i> , <b>1997</b> , 45, 159-67	4.4	32
57	Perioperative biobehavioral interventions to prevent cancer recurrence through combined inhibition of $\beta$ adrenergic and cyclooxygenase 2 signaling. <i>Cancer</i> , <b>2019</b> , 125, 45-56	6.4	32
56	Synergism between immunostimulation and prevention of surgery-induced immune suppression: an approach to reduce post-operative tumor progression. <i>Brain, Behavior, and Immunity</i> , <b>2010</b> , 24, 952-8	16.6	31
55	CpG-C oligodeoxynucleotides limit the deleterious effects of beta-adrenoceptor stimulation on NK cytotoxicity and metastatic dissemination. <i>Journal of Immunotherapy</i> , <b>2009</b> , 32, 280-91	5	31
54	The price of anticancer intervention. Does surgery promote metastasis?. <i>Lancet Oncology</i> , <b>2002</b> , 3, 578-9	21.7	31

53	Continuous stress disrupts immunostimulatory effects of IL-12. <i>Brain, Behavior, and Immunity</i> , <b>2011</b> , 25, 727-35	16.6	30
52	Perioperative treatment with the new synthetic TLR-4 agonist GLA-SE reduces cancer metastasis without adverse effects. <i>International Journal of Cancer</i> , <b>2016</b> , 138, 1754-64	7.5	30
51	Perioperative COX2 and $\beta$ -adrenergic blockade improves biomarkers of tumor metastasis, immunity, and inflammation in colorectal cancer: A randomized controlled trial. <i>Cancer</i> , <b>2020</b> , 126, 3991-4001	6.4	27
50	Harnessing cancer immunotherapy during the unexploited immediate perioperative period. <i>Nature Reviews Clinical Oncology</i> , <b>2020</b> , 17, 313-326	19.4	27
49	Intraoperative use of dexmedetomidine is associated with decreased overall survival after lung cancer surgery. <i>Journal of Anaesthesiology Clinical Pharmacology</i> , <b>2017</b> , 33, 317-323	1.3	27
48	Natural killer cell activity in vasopressin-deficient rats (Brattleboro strain). <i>Brain Research</i> , <b>1989</b> , 479, 16-22	3.7	25
47	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> , <b>2010</b> , 2, 1929-51	6.6	24
46	Amelioration of operation-induced suppression of marginating pulmonary NK activity using poly I:C: a potential approach to reduce postoperative metastasis. <i>Annals of Surgical Oncology</i> , <b>2007</b> , 14, 841-52	3.1	24
45	Derangement in stress response of apolipoprotein E-deficient mice. <i>Neuroscience Letters</i> , <b>1996</b> , 206, 212-4	3.3	24
44	Inducing a mode of NK-resistance to suppression by stress and surgery: a potential approach based on low dose of poly I-C to reduce postoperative cancer metastasis. <i>Brain, Behavior, and Immunity</i> , <b>2007</b> , 21, 395-408	16.6	23
43	Natural killer cell activity and resistance to tumor metastasis in prepubescent rats: deficient baselines, but invulnerability to stress and beta-adrenergic stimulation. <i>NeuroImmunoModulation</i> , <b>2000</b> , 7, 160-8	2.5	22
42	Indomethacin attenuates the immunosuppressive and tumor-promoting effects of surgery. <i>Journal of Pain</i> , <b>2002</b> , 3, 301-8	5.2	21
41	Prophylactic TLR9 stimulation reduces brain metastasis through microglia activation. <i>PLoS Biology</i> , <b>2019</b> , 17, e2006859	9.7	20
40	Resilience of the immune system in healthy young students to 30-hour sleep deprivation with psychological stress. <i>NeuroImmunoModulation</i> , <b>2013</b> , 20, 194-204	2.5	20
39	Metastatic-promoting effects of LPS: sexual dimorphism and mediation by catecholamines and prostaglandins. <i>Brain, Behavior, and Immunity</i> , <b>2009</b> , 23, 611-21	16.6	20
38	The marginating-pulmonary immune compartment in rats: characteristics of continuous inflammation and activated NK cells. <i>Journal of Immunotherapy</i> , <b>2010</b> , 33, 16-29	5	20
37	A role for NK cells in greater susceptibility of young rats to metastatic formation. <i>Developmental and Comparative Immunology</i> , <b>1999</b> , 23, 87-96	3.2	20
36	Prophylactic IL-12 treatment reduces postoperative metastasis: mediation by increased numbers but not cytotoxicity of NK cells. <i>Breast Cancer Research and Treatment</i> , <b>2008</b> , 107, 211-23	4.4	19

35	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> , <b>2001</b> , 1, 1947-56	5.8	19
34	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> , <b>2014</b> , 42, 11-23	5	18
33	Male--female differences in the impact of beta-adrenoceptor stimulation on resistance to experimental metastasis: exploring the effects of age and gonadal hormone involvement. <i>Journal of Neuroimmunology</i> , <b>2008</b> , 193, 113-9	3.5	18
32	Sensory Deprivation Triggers Synaptic and Intrinsic Plasticity in the Hippocampus. <i>Cerebral Cortex</i> , <b>2017</b> , 27, 3457-3470	5.1	17
31	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> , <b>2015</b> , 45, 277-86	16.6	17
30	Reducing the risk of post-surgical cancer recurrence: a perioperative anti-inflammatory anti-stress approach. <i>Future Oncology</i> , <b>2018</b> , 14, 1017-1021	3.6	17
29	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> , <b>2013</b> , 28, 128-38	16.6	16
28	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> , <b>1995</b> , 63, 69-77	3.5	16
27	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> , <b>2012</b> , 31, 396-404	5.9	15
26	Diurnal changes in lung tumor clearance and their relation to NK cell cytotoxicity in the blood and spleen. <i>International Journal of Cancer</i> , <b>2001</b> , 94, 401-6	7.5	15
25	Stress and cancer: mechanisms, significance and future directions. <i>Nature Reviews Cancer</i> , <b>2021</b> , 21, 767-785	3.85	14
24	Stress and skin leukocyte trafficking as a dual-stage process. <i>Brain, Behavior, and Immunity</i> , <b>2012</b> , 26, 267-76	16.6	13
23	A seven-day cycle in COVID-19 infection, hospitalization, and mortality rates: Do weekend social interactions kill susceptible people?		13
22	Impact of surgical extent and sex on the hepatic metastasis of colon cancer. <i>Surgery Today</i> , <b>2014</b> , 44, 1925-34	3	12
21	Effect of beta blocker combined with COX-2 inhibitor on colonic anastomosis in rats. <i>International Journal of Colorectal Disease</i> , <b>2010</b> , 25, 1459-64	3	10
20	Autologous control of a highly malignant syngeneic CRNK-16 leukemia in the rat: a role for NK cells. <i>Cancer Immunology, Immunotherapy</i> , <b>2006</b> , 55, 1348-57	7.4	10
19	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> , <b>2019</b> , 80, 170-178	16.6	9
18	CpG-C immunotherapeutic efficacy is jeopardized by ongoing exposure to stress: potential implications for clinical use. <i>Brain, Behavior, and Immunity</i> , <b>2011</b> , 25, 67-76	16.6	9

17	Poly I-C induces early embryo loss in f344 rats: a potential role for NK cells. <i>American Journal of Reproductive Immunology</i> , <b>2005</b> , 54, 49-53	3.8	8
16	Tumor Excision as a Metastatic Russian Roulette: Perioperative Interventions to Improve Long-Term Survival of Cancer Patients. <i>Trends in Cancer</i> , <b>2020</b> , 6, 951-959	12.5	8
15	Prevention of liver metastases through perioperative acute CpG-C immune stimulation. <i>Cancer Immunology, Immunotherapy</i> , <b>2020</b> , 69, 2021-2031	7.4	6
14	The marginating-pulmonary immune compartment in mice exhibits increased NK cytotoxicity and unique cellular characteristics. <i>Immunologic Research</i> , <b>2014</b> , 58, 28-39	4.3	6
13	Can we really know if a stressor increases or decreases natural killer cell activity?. <i>Brain, Behavior, and Immunity</i> , <b>2012</b> , 26, 1224-5	16.6	5
12	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> , <b>2017</b> , 62, 265-276	16.6	4
11	Regeneration of Functional Adrenal Tissue Following Bilateral Adrenalectomy. <i>Endocrinology</i> , <b>2018</b> , 159, 248-259	4.8	4
10	The Combined Blockade of $\beta$ Adrenoceptor and COX-2 During the Perioperative Period to Improve Long-term Cancer Outcomes. <i>International Anesthesiology Clinics</i> , <b>2016</b> , 54, 72-91	0.6	4
9	Anesthesiologists at work: an increase in pro-inflammatory and Th2 cytokine production, and alterations in proliferative immune responses. <i>Acta Anaesthesiologica Scandinavica</i> , <b>2006</b> , 50, 1223-8	1.9	4
8	The Effect of Pre-operative Psychological Interventions on Psychological, Physiological, and Immunological Indices in Oncology Patients: A Scoping Review.. <i>Frontiers in Psychology</i> , <b>2022</b> , 13, 839065 <sup>3,4</sup>		3
7	The Role of Perioperative Pharmacological Adjuncts in Cancer Outcomes: Beta-Adrenergic Receptor Antagonists, NSAIDs and Anti-fibrinolytics. <i>Current Anesthesiology Reports</i> , <b>2015</b> , 5, 291-304	1	2
6	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> , <b>2018</b> , 8, 386-392	1	2
5	Spontaneous regression of micro-metastases following primary tumor excision: a critical role for primary tumor secretome. <i>BMC Biology</i> , <b>2020</b> , 18, 163	7.3	1
4	Selective Harvesting of Marginating-hepatic Leukocytes. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	1
3	Neuroendocrine Regulation of Cancer Progression: II. Immunological Mechanisms, Clinical Relevance, and Prophylactic Measures <b>2007</b> , 251-265		1
2	Selective Harvesting of Marginating-pulmonary Leukocytes. <i>Journal of Visualized Experiments</i> , <b>2016</b> ,	1.6	1
1	Heart rate variability as a predictor of disease exacerbation in pediatric inflammatory bowel disease.. <i>Journal of Psychosomatic Research</i> , <b>2022</b> , 158, 110911	4.1	1