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	The Effect of Pre-operative Psychological Interventions on Psychological, Physiological, and Immunological Indices in Oncology Patients: A Scoping Review. Frontiers in Psychology, 2022, 13, 839065.	2.1	16
2	Heart rate variability as a predictor of disease exacerbation in pediatric inflammatory bowel disease. Journal of Psychosomatic Research, 2022, 158, 110911.	2.6	4
3	Stress and cancer: mechanisms, significance and future directions. Nature Reviews Cancer, 2021, 21, 767-785.	28.4	107
4	Tumor Excision as a Metastatic Russian Roulette: Perioperative Interventions to Improve Long-Term Survival of Cancer Patients. Trends in Cancer, 2020, 6, 951-959.	7.4	21
5	Spontaneous regression of micro-metastases following primary tumor excision: a critical role for primary tumor secretome. BMC Biology, 2020, 18, 163.	3.8	11
6	Prevention of liver metastases through perioperative acute CpG-C immune stimulation. Cancer Immunology, Immunotherapy, 2020, 69, 2021-2031.	4.2	9
7	Perioperative COX2 andÂÎ²â€adrenergic blockade improves biomarkers of tumor metastasis, immunity, and inflammation in colorectal cancer: A randomized controlled trial. Cancer, 2020, 126, 3991-4001.	4.1	68
8	Harnessing cancer immunotherapy during the unexploited immediate perioperative period. Nature Reviews Clinical Oncology, 2020, 17, 313-326.	27.6	60
9	Deleterious synergistic effects of distress and surgery on cancer metastasis: Abolishment through an integrated perioperative immune-stimulating stress-inflammatory-reducing intervention. Brain, Behavior, and Immunity, 2019, 80, 170-178.	4.1	17
10	Prophylactic TLR9 stimulation reduces brain metastasis through microglia activation. PLoS Biology, 2019, 17, e2006859.	5.6	40
11	Perioperative biobehavioral interventions to prevent cancer recurrence through combined inhibition of Î²â€adrenergic and cyclooxygenase 2 signaling. Cancer, 2019, 125, 45-56.	4.1	48
12	Reducing the risk of post-surgical cancer recurrence: a perioperative anti-inflammatory anti-stress approach. Future Oncology, 2018, 14, 1017-1021.	2.4	27
13	Regeneration of Functional Adrenal Tissue Following Bilateral Adrenalectomy. Endocrinology, 2018, 159, 248-259.	2.8	10
14	Dexmedetomidine promotes metastasis in rodent models of breast, lung, and colon cancers. British Journal of Anaesthesia, 2018, 120, 188-196.	3.4	83
15	Perioperative Stress, Inflammation, and Cancer Progression: Opportunities for Intervention in Breast and Colorectal Cancer Surgery Utilizing Beta-Adrenergic Blockade and COX-2 Inhibition. Current Anesthesiology Reports, 2018, 8, 386-392.	2.0	2
16	Perioperative inhibition of Î²-adrenergic and COX2 signaling in a clinical trial in breast cancer patients improves tumor Ki-67 expression, serum cytokine levels, and PBMCs transcriptome. Brain, Behavior, and Immunity, 2018, 73, 294-309.	4.1	61
17	Harnessing the Perioperative Period to Improve Long-term Cancer Outcomes. Journal of the National Cancer Institute, 2018, 110, 1137-1138.	6.3	8
18	Maintaining unperturbed cerebral blood flow is key in the study of brain metastasis and its interactions with stress and inflammatory responses. Brain, Behavior, and Immunity, 2017, 62, 265-276.	4.1	5

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19	Sensory Deprivation Triggers Synaptic and Intrinsic Plasticity in the Hippocampus. Cerebral Cortex, 2017, 27, 3457-3470.	2.9	20
20	Perioperative COX-2 and Î²-Adrenergic Blockade Improves Metastatic Biomarkers in Breast Cancer Patients in a Phase-II Randomized Trial. Clinical Cancer Research, 2017, 23, 4651-4661.	7.0	194
21	Intraoperative use of dexmedetomidine is associated with decreased overall survival after lung cancer surgery. Journal of Anaesthesiology Clinical Pharmacology, 2017, 33, 317.	0.7	44
22	Selective Harvesting of Marginating-pulmonary Leukocytes. Journal of Visualized Experiments, 2016, , .	0.3	1
23	Reducing liver metastases of colon cancer in the context of extensive and minor surgeries through Î²-adrenoceptors blockade and COX2 inhibition. Brain, Behavior, and Immunity, 2016, 58, 91-98.	4.1	62
24	Perioperative treatment with the new synthetic <scp>TLR</scp>â€4 agonist <scp>GLAâ€SE</scp> reduces cancer metastasis without adverse effects. International Journal of Cancer, 2016, 138, 1754-1764.	5.1	38
25	Selective Harvesting of Marginating-hepatic Leukocytes. Journal of Visualized Experiments, 2016, , .	0.3	1
26	The Combined Blockade of Î²-Adrenoceptor and COX-2 During the Perioperative Period to Improve Long-term Cancer Outcomes. International Anesthesiology Clinics, 2016, 54, 72-91.	0.8	4
27	Exploiting the critical perioperative period to improve long-term cancer outcomes. Nature Reviews Clinical Oncology, 2015, 12, 213-226.	27.6	352
28	The misleading nature of in vitro and ex vivo findings in studying the impact of stress hormones on NK cell cytotoxicity. Brain, Behavior, and Immunity, 2015, 45, 277-286.	4.1	24
29	The Role of Perioperative Pharmacological Adjuncts in Cancer Outcomes: Beta-Adrenergic Receptor Antagonists, NSAIDs and Anti-fibrinolytics. Current Anesthesiology Reports, 2015, 5, 291-304.	2.0	3
30	In vivo suppression of NK cell cytotoxicity by stress and surgery: Glucocorticoids have a minor role compared to catecholamines and prostaglandins. Brain, Behavior, and Immunity, 2014, 37, 207-219.	4.1	62
31	The impact of surgical extent and sex on the hepatic metastasis of colon cancer. Surgery Today, 2014, 44, 1925-1934.	1.5	14
32	The marginating-pulmonary immune compartment in mice exhibits increased NK cytotoxicity and unique cellular characteristics. Immunologic Research, 2014, 58, 28-39.	2.9	7
33	Plasma IL-12 levels are suppressed in vivo by stress and surgery through endogenous release of glucocorticoids and prostaglandins but not catecholamines or opioids. Psychoneuroendocrinology, 2014, 42, 11-23.	2.7	20
34	Surgery and stress promote cancer metastasis: New outlooks on perioperative mediating mechanisms and immune involvement. Brain, Behavior, and Immunity, 2013, 30, S32-S40.	4.1	177
35	Resilience of the Immune System in Healthy Young Students to 30-Hour Sleep Deprivation with Psychological Stress. NeuroImmunoModulation, 2013, 20, 194-204.	1.8	25
36	PGE2 suppresses NK activity in vivo directly and through adrenal hormones: Effects that cannot be reflected by ex vivo assessment of NK cytotoxicity. Brain, Behavior, and Immunity, 2013, 28, 128-138.	4.1	19

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37	A New Approach to Reducing Postsurgical Cancer Recurrence: Perioperative Targeting of Catecholamines and Prostaglandins. Clinical Cancer Research, 2012, 18, 4895-4902.	7.0	94
38	Stress and skin leukocyte trafficking as a dual-stage process. Brain, Behavior, and Immunity, 2012, 26, 267-276.	4.1	14
39	Can we really know if a stressor increases or decreases natural killer cell activity?. Brain, Behavior, and Immunity, 2012, 26, 1224-1225.	4.1	7
40	Fish oil attenuates surgery-induced immunosuppression, limits post-operative metastatic dissemination and increases long-term recurrence-free survival in rodents inoculated with cancer cells. Clinical Nutrition, 2012, 31, 396-404.	5.0	18
41	CpG-C immunotherapeutic efficacy is jeopardized by ongoing exposure to stress: Potential implications for clinical use. Brain, Behavior, and Immunity, 2011, 25, 67-76.	4.1	11
42	Continuous stress disrupts immunostimulatory effects of IL-12. Brain, Behavior, and Immunity, 2011, 25, 727-735.	4.1	32
43	Improving Postoperative Immune Status and Resistance to Cancer Metastasis. Annals of Surgery, 2011, 253, 798-810.	4.2	215
44	Do Stress Responses Promote Leukemia Progression? An Animal Study Suggesting a Role for Epinephrine and Prostaglandin-E2 through Reduced NK Activity. PLoS ONE, 2011, 6, e19246.	2.5	96
45	The Marginating-pulmonary Immune Compartment in Rats: Characteristics of Continuous Inflammation and Activated NK Cells. Journal of Immunotherapy, 2010, 33, 16-29.	2.4	21
46	Effect of beta blocker combined with COX-2 inhibitor on colonic anastomosis in rats. International Journal of Colorectal Disease, 2010, 25, 1459-1464.	2.2	12
47	Improving Survival Rates in Two Models of Spontaneous Postoperative Metastasis in Mice by Combined Administration of a Î²-Adrenergic Antagonist and a Cyclooxygenase-2 Inhibitor. Journal of Immunology, 2010, 184, 2449-2457.	0.8	213
48	Surgery as a Double-Edged Sword: A Clinically Feasible Approach to Overcome the Metastasis-Promoting Effects of Surgery by Blunting Stress and Prostaglandin Responses. Cancers, 2010, 2, 1929-1951.	3.7	29
49	Immune perturbations in patients along the perioperative period: Alterations in cell surface markers and leukocyte subtypes before and after surgery. Brain, Behavior, and Immunity, 2010, 24, 376-386.	4.1	80
50	Synergism between immunostimulation and prevention of surgery-induced immune suppression: An approach to reduce post-operative tumor progression. Brain, Behavior, and Immunity, 2010, 24, 952-958.	4.1	33
51	Metastatic-promoting effects of LPS: Sexual dimorphism and mediation by catecholamines and prostaglandins. Brain, Behavior, and Immunity, 2009, 23, 611-621.	4.1	21
52	CpG-C Oligodeoxynucleotides Limit the Deleterious Effects of Î²-adrenoceptor Stimulation on NK Cytotoxicity and Metastatic Dissemination. Journal of Immunotherapy, 2009, 32, 280-291.	2.4	33
53	Prophylactic IL-12 treatment reduces postoperative metastasis: mediation by increased numbers but not cytotoxicity of NK cells. Breast Cancer Research and Treatment, 2008, 107, 211-223.	2.5	20
54	Perioperative Use of Î²-blockers and COX-2 Inhibitors May Improve Immune Competence and Reduce the Risk of Tumor Metastasis. Annals of Surgical Oncology, 2008, 15, 2042-2052.	1.5	251

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55	Maleâ€“female differences in the impact of Î²-adrenoceptor stimulation on resistance to experimental metastasis: Exploring the effects of age and gonadal hormone involvement. Journal of Neuroimmunology, 2008, 193, 113-119.	2.3	18
56	Can regional analgesia reduce the risk of recurrence after breast cancer?. Contemporary Clinical Trials, 2008, 29, 517-526.	1.8	149
57	Blood Transfusion Promotes Cancer Progression: A Critical Role for Aged Erythrocytes. Anesthesiology, 2008, 109, 989-997.	2.5	144
58	Inducing a mode of NK-resistance to suppression by stress and surgery: A potential approach based on low dose of poly Iâ€“C to reduce postoperative cancer metastasis. Brain, Behavior, and Immunity, 2007, 21, 395-408.	4.1	25
59	Immune suppression while awaiting surgery and following it: Dissociations between plasma cytokine levels, their induced production, and NK cell cytotoxicity. Brain, Behavior, and Immunity, 2007, 21, 503-513.	4.1	66
60	Stress, NK cells, and cancer: Still a promissory note. Brain, Behavior, and Immunity, 2007, 21, 881-887.	4.1	71
61	Amelioration of Operation-Induced Suppression of Marginating Pulmonary NK Activity using Poly IC: A Potential Approach to Reduce Postoperative Metastasis. Annals of Surgical Oncology, 2007, 14, 841-852.	1.5	25
62	Neuroendocrine Regulation of Cancer Progression: II. Immunological Mechanisms, Clinical Relevance, and Prophylactic Measures. , 2007, , 251-265.		1
63	Anesthesiologists at work: an increase in pro-inflammatory and Th2 cytokine production, and alterations in proliferative immune responses. Acta Anaesthesiologica Scandinavica, 2006, 50, 1223-1228.	1.6	5
64	Autologous control of a highly malignant syngeneic CRNK-16 leukemia in the rat: a role for NK cells. Cancer Immunology, Immunotherapy, 2006, 55, 1348-1357.	4.2	10
65	High NK cell activity in recurrent miscarriage: what are we really measuring?. Human Reproduction, 2006, 21, 2421-2425.	0.9	39
66	Poly I-C Induces Early Embryo Loss in F344 Rats: a Potential Role for NK Cells. American Journal of Reproductive Immunology, 2005, 54, 49-53.	1.2	11
67	Marginating pulmonary-NK activity and resistance to experimental tumor metastasis: suppression by surgery and the prophylactic use of a Î²-adrenergic antagonist and a prostaglandin synthesis inhibitor. Brain, Behavior, and Immunity, 2005, 19, 114-126.	4.1	189
68	Effects of Fentanyl on Natural Killer Cell Activity and on Resistance to Tumor Metastasis in Rats. NeuroImmunoModulation, 2004, 11, 255-260.	1.8	169
69	Prostaglandin E2 Suppresses NK Activity In Vivo and Promotes Postoperative Tumor Metastasis in Rats. Annals of Surgical Oncology, 2003, 10, 469-479.	1.5	113
70	Differences in number and activity of peripheral natural killer cells in primary versus secondary recurrent miscarriage. Fertility and Sterility, 2003, 80, 368-375.	1.0	76
71	Serum levels of sex hormones and corticosterone throughout 4- and 5-day estrous cycles in Fischer 344 rats and their simulation in ovariectomized females. Journal of Endocrinological Investigation, 2003, 26, 1013-1022.	3.3	60
72	Potential Prophylactic Measures Against Postoperative Immunosuppression: Could They Reduce Recurrence Rates in Oncological Patients?. Annals of Surgical Oncology, 2003, 10, 972-992.	1.5	294

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73	The promotion of tumor metastasis by surgery and stress: Immunological basis and implications for psychoneuroimmunology. Brain, Behavior, and Immunity, 2003, 17, 27-36.	4.1	210
74	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. Anesthesia and Analgesia, 2003, 97, 1331-1339.	2.2	358
75	Indomethacin attenuates the immunosuppressive and tumor-promoting effects of surgery. Journal of Pain, 2002, 3, 301-308.	1.4	29
76	The price of anticancer intervention. Does surgery promote metastasis?. Lancet Oncology, The, 2002, 3, 578-9.	10.7	33
77	Evidence that postoperative pain is a mediator of the tumor-promoting effects of surgery in rats. Pain, 2001, 90, 191-199.	4.2	250
78	The effects of a Chinese herb formula, anti-cancer number one (ACNO), on NK cell activity and tumor metastasis in rats. International Immunopharmacology, 2001, 1, 1947-1956.	3.8	23
79	Attenuation of the Tumor-promoting Effect of Surgery by Spinal Blockade in Rats. Anesthesiology, 2001, 94, 1066-1073.	2.5	250
80	Diurnal changes in lung tumor clearance and their relation to NK cell cytotoxicity in the blood and spleen. International Journal of Cancer, 2001, 94, 401-406.	5.1	15
81	The Effects of Sex, Menstrual Cycle, and Oral Contraceptives on the Number and Activity of Natural Killer Cells. Gynecologic Oncology, 2001, 81, 254-262.	1.4	110
82	Natural Killer Cell Activity and Resistance to Tumor Metastasis in Prepubescent Rats: Deficient Baselines, but Invulnerability to Stress and Î²-Adrenergic Stimulation. NeuroImmunoModulation, 2000, 7, 160-168.	1.8	25
83	Hormonal changes affect the bone and bone marrow cells in a rat model. Journal of Cellular Biochemistry, 2000, 79, 407-415.	2.6	50
84	Suppression of NK Cell Activity and of Resistance to Metastasis by Stress: A Role for Adrenal Catecholamines and Î²-Adrenoceptors. NeuroImmunoModulation, 2000, 8, 154-164.	1.8	199
85	Higher Natural Killer Cell Activity in Schizophrenic Patients: The Impact of Serum Factors, Medication, and Smoking. Brain, Behavior, and Immunity, 2000, 14, 153-169.	4.1	56
86	Differential behavioural and hormonal responses of voles and spiny mice to owl calls. Animal Behaviour, 1999, 58, 1085-1093.	1.9	112
87	Evidence that stress and surgical interventions promote tumor development by suppressing natural killer cell activity. International Journal of Cancer, 1999, 80, 880-888.	5.1	359
88	A role for NK cells in greater susceptibility of young rats to metastatic formation. Developmental and Comparative Immunology, 1999, 23, 87-96.	2.3	23
89	Hypothermia in Barbiturate-anesthetized Rats Suppresses Natural Killer Cell Activity and Compromises Resistance to Tumor MetastasisÂ. Anesthesiology, 1999, 91, 732-732.	2.5	96
90	The immune-suppressive nature of pain. Seminars in Oncology Nursing, 1997, 13, 10-15.	1.5	60

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91	Increased surgery-induced metastasis and suppressed natural killer cell activity during proestrus/estrus in rats. Breast Cancer Research and Treatment, 1997, 45, 159-167.	2.5	33
92	Social confrontation and tumor metastasis in rats: Defeat and Î²-adrenergic mechanisms. Physiology and Behavior, 1996, 60, 277-282.	2.1	92
93	Derangement in stress response of apolipoprotein E-deficient mice. Neuroscience Letters, 1996, 206, 212-214.	2.1	27
94	Acute alcohol intoxication suppresses natural killer cell activity and promotes tumor metastasis. Nature Medicine, 1996, 2, 457-460.	30.7	116
95	The development of sexual dimorphism in natural killer cell activity and resistance to tumor metastasis in the Fischer 344 rat. Journal of Neuroimmunology, 1995, 63, 69-77.	2.3	18
96	Morphine fails to produce tolerance when administered in the presence of formalin pain in rats. Brain Research, 1993, 627, 287-290.	2.2	59
97	Morphine attenuates surgery-induced enhancement of metastatic colonization in rats. Pain, 1993, 54, 21-28.	4.2	151
98	Ethanol increases tumor progression in rats: Possible involvement of natural killer cells. Brain, Behavior, and Immunity, 1992, 6, 74-86.	4.1	48
99	The NMDA receptor antagonist MK-801 prevents long-lasting non-associative morphine tolerance in the rat. Brain Research, 1992, 575, 304-308.	2.2	135
100	Excitatory amino acid antagonists (kynurenic acid and MK-801) attenuate the development of morphine tolerance in the rat. Brain Research, 1991, 547, 81-88.	2.2	262
101	Delayed application of MK-801 attenuates development of morphine tolerance in rats. Brain Research, 1991, 558, 163-165.	2.2	128
102	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. Brain Research, 1991, 551, 293-296.	2.2	39
103	Stress-induced suppression of natural killer cell cytotoxicity in the rat: A naltrexone-insensitive paradigm.. Behavioral Neuroscience, 1990, 104, 235-238.	1.2	37
104	Stimulation of the hypothalamic paraventricular nucleus produces analgesia not mediated by vasopressin or endogenous opioids. Brain Research, 1990, 537, 169-174.	2.2	48
105	Characterization of stimulation-produced analgesia from the nucleus tractus solitarius in the rat. Brain Research, 1989, 486, 175-180.	2.2	36
106	Natural killer cell activity in vasopressin-deficient rats (brattleboro strain). Brain Research, 1989, 479, 16-22.	2.2	27