

# Mitsuru Futakuchi

## List of Publications by Year in descending order

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105  
papers

3,620  
citations

147566

31  
h-index

149479

56  
g-index

107  
all docs

107  
docs citations

107  
times ranked

4281  
citing authors

#	ARTICLE	IF	CITATIONS
1	MMP-7 promotes prostate cancer-induced osteolysis via the solubilization of RANKL. <i>Cancer Cell</i> , 2005, 7, 485-496.	7.7	349
2	Cancer-secreted hsa-miR-940 induces an osteoblastic phenotype in the bone metastatic microenvironment via targeting ARHGAP1 and FAM134A. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 2204-2209.	3.3	200
3	Dose-dependent mesothelioma induction by intraperitoneal administration of multiwall carbon nanotubes in p53 heterozygous mice. <i>Cancer Science</i> , 2012, 103, 1440-1444.	1.7	170
4	Multiwalled carbon nanotubes intratracheally instilled into the rat lung induce development of pleural malignant mesothelioma and lung tumors. <i>Cancer Science</i> , 2016, 107, 924-935.	1.7	116
5	Matrix Metalloproteinase (MMP)-13 Regulates Mammary Tumor-Induced Osteolysis by Activating MMP9 and Transforming Growth Factor- $\beta$ Signaling at the Tumor-Bone Interface. <i>Cancer Research</i> , 2010, 70, 3494-3504.	0.4	111
6	Anticancer effect of hyperthermia on prostate cancer mediated by magnetite cationic liposomes and immune-response induction in transplanted syngeneic rats. <i>Prostate</i> , 2005, 64, 373-381.	1.2	110
7	Inhibition of mammary gland carcinogenesis by green tea catechins and other naturally occurring antioxidants in female Sprague-Dawley rats pretreated with 7,12-dimethylbenz[a]anthracene. <i>Cancer Letters</i> , 1994, 83, 149-156.	3.2	105
8	Effects of arctiin on PhIP-induced mammary, colon and pancreatic carcinogenesis in female Sprague-Dawley rats and MeIQx-induced hepatocarcinogenesis in male F344 rats. <i>Cancer Letters</i> , 2000, 155, 79-88.	3.2	103
9	Multiwalled carbon nanotubes translocate into the pleural cavity and induce visceral mesothelial proliferation in rats. <i>Cancer Science</i> , 2012, 103, 2045-2050.	1.7	101
10	Strong promoting activity of phenylethyl isothiocyanate and benzyl isothiocyanate on urinary bladder carcinogenesis in F344 male rats. , 1998, 77, 773-777.		95
11	Cancer prevention by bovine lactoferrin: from animal studies to human trial. <i>BioMetals</i> , 2010, 23, 399-409.	1.8	91
12	Cathepsin G-mediated enhanced TGF- $\beta$ signaling promotes angiogenesis via upregulation of VEGF and MCP-1. <i>Cancer Letters</i> , 2010, 288, 162-169.	3.2	86
13	Cathepsin G Enhances Mammary Tumor-Induced Osteolysis by Generating Soluble Receptor Activator of Nuclear Factor- $\kappa$ B Ligand. <i>Cancer Research</i> , 2008, 68, 5803-5811.	0.4	84
14	Experimental prostate carcinogenesis in rodent models. <i>Mutation Research - Reviews in Mutation Research</i> , 2000, 462, 219-226.	2.4	79
15	Heterogeneity of tumor cells in the bone microenvironment: Mechanisms and therapeutic targets for bone metastasis of prostate or breast cancer. <i>Advanced Drug Delivery Reviews</i> , 2016, 99, 206-211.	6.6	69
16	Anticarcinogenesis pathways activated by bovine lactoferrin in the murine small intestine. <i>Biochimie</i> , 2009, 91, 86-101.	1.3	67
17	Size- and shape-dependent pleural translocation, deposition, fibrogenesis, and mesothelial proliferation by multiwalled carbon nanotubes. <i>Cancer Science</i> , 2014, 105, 763-769.	1.7	64
18	Chemoprevention of heterocyclic amine-induced carcinogenesis by phenolic compounds in rats. <i>Cancer Letters</i> , 1999, 143, 173-178.	3.2	62

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19	Transforming growth factor $\beta$ signaling at the tumor-bone interface promotes mammary tumor growth and osteoclast activation. <i>Cancer Science</i> , 2009, 100, 71-81.	1.7	58
20	Detection of Lung Cancer Lymph Node Metastases from Whole-Slide Histopathologic Images Using a Two-Step Deep Learning Approach. <i>American Journal of Pathology</i> , 2019, 189, 2428-2439.	1.9	55
21	Suppressive Effects of Dietary Genistin and Daidzin on Rat Prostate Carcinogenesis. <i>Japanese Journal of Cancer Research</i> , 2000, 91, 786-791.	1.7	54
22	Effect of heat therapy using magnetic nanoparticles conjugated with cationic liposomes on prostate tumor in bone. <i>Prostate</i> , 2008, 68, 784-792.	1.2	54
23	Carcinogenicity of 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP) in the rat prostate and induction of invasive carcinomas by subsequent treatment with testosterone propionate. <i>Cancer Letters</i> , 1999, 143, 217-221.	3.2	50
24	Complete regression of experimental prostate cancer in nude mice by repeated hyperthermia using magnetite cationic liposomes and a newly developed solenoid containing a ferrite core. <i>Prostate</i> , 2006, 66, 718-727.	1.2	50
25	Involvement of macrophage inflammatory protein 1 $\alpha$ (MIP1 $\alpha$ ) in promotion of rat lung and mammary carcinogenic activity of nanoscale titanium dioxide particles administered by intra-pulmonary spraying. <i>Carcinogenesis</i> , 2010, 31, 927-935.	1.3	48
26	Inhibition of conjugated fatty acids derived from safflower or perilla oil of induction and development of mammary tumors in rats induced by 2-amino-1-methyl-6-phenylimidazo[4,5-b]pyridine (PhIP). <i>Cancer Letters</i> , 2002, 178, 131-139.	3.2	42
27	Suppression of metastasis by nuclear factor $\kappa$ B inhibitors in an in vivo lung metastasis model of chemically induced hepatocellular carcinoma. <i>Cancer Science</i> , 2004, 95, 18-24.	1.7	39
28	Inhibition of intestinal polyp growth by oral ingestion of bovine lactoferrin and immune cells in the large intestine. <i>BioMetals</i> , 2014, 27, 1017-1029.	1.8	39
29	Loss of NDRG2 Expression Confers Oral Squamous Cell Carcinoma with Enhanced Metastatic Potential. <i>Cancer Research</i> , 2017, 77, 2363-2374.	0.4	35
30	Transforming growth factor $\beta$ derived from bone matrix promotes cell proliferation of prostate cancer and osteoclast activation-associated osteolysis in the bone microenvironment. <i>Cancer Science</i> , 2008, 99, 316-323.	1.7	34
31	Establishment of an in vivo Highly Metastatic Rat Hepatocellular Carcinoma Model. <i>Japanese Journal of Cancer Research</i> , 1999, 90, 1196-1202.	1.7	33
32	A Medium-Term, Rapid Rat Bioassay Model for the Detection of Carcinogenic Potential of Chemicals. <i>Toxicologic Pathology</i> , 2010, 38, 182-187.	0.9	33
33	Stage and organ dependent effects of 1-O-hexyl-2,3,5-trimethylhydroquinone, ascorbic acid derivatives, N-heptadecane-8,10-dione and phenylethyl isothiocyanate in a rat multiorgan carcinogenesis model. , 1998, 76, 851-856.		32
34	Cancer-Associated Fibroblasts Enhance Survival and Progression of the Aggressive Pancreatic Tumor Via FGF-2 and CXCL8. <i>Cancer Microenvironment</i> , 2019, 12, 37-46.	3.1	32
35	Synergistic enhancement of hepatic foci development by combined treatment of rats with 10 heterocyclic amines at low doses. <i>Carcinogenesis</i> , 1994, 15, 1037-1041.	1.3	30
36	Inhibitory effects of low doses of melatonin on induction of preneoplastic liver lesions in a medium-term liver bioassay in F344 rats: relation to the influence of electromagnetic near field exposure. <i>Cancer Letters</i> , 2000, 155, 105-114.	3.2	30

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37	Comparative Study of Toxic Effects of Anatase and Rutile Type Nanosized Titanium Dioxide Particles in vivo and in vitro. <i>Asian Pacific Journal of Cancer Prevention</i> , 2014, 15, 929-935.	0.5	30
38	Highly metastatic hepatocellular carcinomas induced in male F344 rats treated with N-nitrosomorpholine in combination with other hepatocarcinogens show a high incidence of p53 gene mutations along with altered mRNA expression of tumor-related genes. <i>Cancer Letters</i> , 1997, 112, 33-45.	3.2	29
39	Studies of initiation and promotion of carcinogenesis by N-nitroso compounds. <i>Cancer Letters</i> , 1998, 123, 185-191.	3.2	29
40	Dose response study of conjugated fatty acid derived from safflower oil on mammary and colon carcinogenesis pretreated with 7,12-dimethylbenz[a]anthracene (DMBA) and 1,2-dimethylhydrazine (DMH) in female Spragueâ€Dawley rats. <i>Cancer Letters</i> , 2003, 196, 161-168.	3.2	29
41	Comparison of Reversibility of Rat Forestomach Lesions Induced by Genotoxic and Non-genotoxic Carcinogens. <i>Japanese Journal of Cancer Research</i> , 1993, 84, 1120-1129.	1.7	27
42	Lack of promoting effect of titanium dioxide particles on ultraviolet B-initiated skin carcinogenesis in rats. <i>Food and Chemical Toxicology</i> , 2011, 49, 1298-1302.	1.8	27
43	Establishment and characterization of highly osteolytic luminal breast cancer cell lines by intracaudal arterial injection. <i>Genes To Cells</i> , 2020, 25, 111-123.	0.5	27
44	Establishment of rat hepatocellular carcinoma cell lines with differing metastatic potential in nude mice. <i>International Journal of Cancer</i> , 2001, 91, 797-802.	2.3	26
45	Lack of inhibitory effects of green tea catechins in 1,2-dimethylhydrazine-induced rat intestinal carcinogenesis model: comparison of the different formulations, administration routes and doses. <i>Cancer Letters</i> , 2002, 188, 163-170.	3.2	26
46	Site-dependent modulating effects of conjugated fatty acids from safflower oil in a rat two-stage carcinogenesis model in female Spragueâ€Dawley rats. <i>Cancer Letters</i> , 2001, 168, 15-21.	3.2	25
47	Site-specific Effects of Testosterone Propionate on the Prostate of Rat Pretreated with 3,2â€²-Dimethyl-4-aminobiphenyl:Dose-dependent Induction of Invasive Carcinomas. <i>Japanese Journal of Cancer Research</i> , 1995, 86, 645-648.	1.7	24
48	Modification of the Carcinogenic Potency of Quinoline, a Hepatocarcinogen, by Fluorine Atom Substitution: Evaluation of Carcinogenicity by a Medium-Term Assay.. <i>Biological and Pharmaceutical Bulletin</i> , 1997, 20, 40-43.	0.6	24
49	Suppression of Lung Metastasis by Aspirin but Not Indomethacin in an in vivo Model of Chemically Induced Hepatocellular Carcinoma. <i>Japanese Journal of Cancer Research</i> , 2002, 93, 1175-1181.	1.7	24
50	C5a inhibitor protects against ischemia/reperfusion injury in rat small intestine. <i>Microbiology and Immunology</i> , 2016, 60, 35-46.	0.7	22
51	The Effects of TGF- $\beta$ 2 Signaling on Cancer Cells and Cancer Stem Cells in the Bone Microenvironment. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5117.	1.8	22
52	Toxicology of engineered nanomaterials - a review of carcinogenic potential. <i>Asian Pacific Journal of Cancer Prevention</i> , 2009, 10, 975-80.	0.5	22
53	Both Early and Late Stages of Hepatocarcinogenesis Are Enhanced in Cx32 Dominant Negative Mutant Transgenic Rats with Disrupted Gap Junctional Intercellular Communication. <i>Journal of Membrane Biology</i> , 2007, 218, 101-106.	1.0	21
54	Hepatocyte Growth Factor Enhancement of Preneoplastic Hepatic Foci Development in Rats Treated with Diethylnitrosamine and N-Ethyl-N-hydroxyethylnitrosamine. <i>Japanese Journal of Cancer Research</i> , 1995, 86, 718-723.	1.7	20

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55	Clinicopathological analysis on cancers of autopsy cases in a geriatric hospital. <i>Pathology International</i> , 1997, 47, 293-300.	0.6	20
56	Phenotypic alteration of hepatocellular foci in rats treated with clofibrate and phenobarbital. <i>Cancer Letters</i> , 1994, 83, 89-95.	3.2	19
57	Protective mechanisms against the intestinal nematode <i>Strongyloides venezuelensis</i> in <i>Schistosoma japonicum</i> -infected mice. <i>Parasite Immunology</i> , 2000, 22, 279-286.	0.7	18
58	Modification of an in vivo Lung Metastasis Model of Hepatocellular Carcinoma by Low Dose N-nitrosomorpholine and Diethylnitrosamine. <i>Clinical and Experimental Metastasis</i> , 2005, 22, 441-447.	1.7	18
59	Animal model for mammary tumor growth in the bone microenvironment. <i>Breast Cancer</i> , 2013, 20, 195-203.	1.3	17
60	Modification of hepato- and renal carcinogenesis by catechol and its isomers in rats pretreated with N-ethyl-N-hydroxyethyl nitrosamine. <i>Teratogenesis, Carcinogenesis, and Mutagenesis</i> , 1993, 13, 127-137.	0.8	16
61	Mature acinar cells are refractory to carcinoma development by targeted activation of Ras oncogene in adult rats. <i>Cancer Science</i> , 2010, 101, 341-346.	1.7	16
62	Murine Herc6 Plays a Critical Role in Protein ISGylation <i>In Vivo</i> and Has an ISGylation-Independent Function in Seminal Vesicles. <i>Journal of Interferon and Cytokine Research</i> , 2015, 35, 351-358.	0.5	16
63	Enhanced expression and shedding of receptor activator of NF- $\kappa$ B ligand during tumor-bone interaction potentiates mammary tumor-induced osteolysis. <i>Clinical and Experimental Metastasis</i> , 2009, 26, 797-808.	1.7	15
64	Nanosized zinc oxide particles do not promote DHPN-induced lung carcinogenesis but cause reversible epithelial hyperplasia of terminal bronchioles. <i>Archives of Toxicology</i> , 2014, 88, 65-75.	1.9	15
65	Chemoprevention of 2-amino-1-methyl-6-phenylimidazo- [4,5-b]pyridine-induced colon carcinogenesis by 1-O-hexyl-2,3,5-trimethylhydroquinone after initiation with 1,2-dimethylhydrazine in F344 rats. <i>Carcinogenesis</i> , 2002, 23, 283-287.	1.3	14
66	Fenton reaction-induced renal carcinogenesis in <i>Mutyh</i> -deficient mice exhibits less chromosomal aberrations than the rat model. <i>Pathology International</i> , 2017, 67, 564-574.	0.6	14
67	Effects of Antioxidant 1-O-Hexyl-2,3,5-trimethylhydroquinone or Ascorbic Acid on Carcinogenesis Induced by Administration of Aminopyrine and Sodium Nitrite in a Rat Multi-organ Carcinogenesis Model. <i>Japanese Journal of Cancer Research</i> , 2002, 93, 1299-1307.	1.7	13
68	A Cross-Species Analysis of a Mouse Model of Breast Cancer-Specific Osteolysis and Human Bone Metastases Using Gene Expression Profiling. <i>BMC Cancer</i> , 2011, 11, 304.	1.1	13
69	Lack of promoting effect of titanium dioxide particles on chemically-induced skin carcinogenesis in rats and mice. <i>Journal of Toxicological Sciences</i> , 2012, 37, 317-327.	0.7	13
70	Ki-ras mutations with frequent normal allele loss versus absence of p53 mutations in rat prostate and seminal vesicle carcinomas induced with 3,2-dimethyl-4-aminobiphenyl. <i>Molecular Carcinogenesis</i> , 1995, 13, 21-26.	1.3	11
71	A novel monoclonal antibody targeting coxsackie virus and adenovirus receptor inhibits tumor growth in vivo. <i>Scientific Reports</i> , 2017, 7, 40400.	1.6	11
72	Immunohistochemically demonstrated androgen receptor expression in the rat prostate during carcinogenesis induced by 3,2-dimethyl-4-aminobiphenyl with or without testosterone. <i>Urologic Oncology: Seminars and Original Investigations</i> , 1995, 1, 263-268.	0.8	9

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73	Low susceptibility of the spontaneously hypertensive rat (SHR) to quinoline-induction of hepatic hemangioendothelial sarcomas. <i>Cancer Letters</i> , 1996, 104, 37-41.	3.2	9
74	Effects of low dose mixtures of four N-nitroso compounds on hepatic foci development in the rat. <i>Cancer Letters</i> , 1996, 106, 263-269.	3.2	8
75	Persistent Pleural Lesions and Inflammation by Pulmonary Exposure of Multiwalled Carbon Nanotubes. <i>Chemical Research in Toxicology</i> , 2018, 31, 1025-1031.	1.7	8
76	Chemokine (Câ€C motif) ligand 3 detection in the serum of persons exposed to asbestos: A patientâ€Cbased study. <i>Cancer Science</i> , 2015, 106, 825-832.	1.7	7
77	Establishment of Transplantable Rat Prostate Carcinomas from Primary Lesions Induced by 3,2'-Dimethyl-4-aminobiphenyl and Testosterone.. <i>Journal of Toxicologic Pathology</i> , 1998, 11, 27-32.	0.3	6
78	Development of Androgen-independent Carcinomas from Androgen-dependent Preneoplastic Lesions in the Male Accessory Sex Organs of Rats Treated with 3,2â€C-Dimethyl-4-aminobiphenyl and Testosterone Propionate. <i>Japanese Journal of Cancer Research</i> , 1999, 90, 23-30.	1.7	6
79	Evaluation of a biomarker for the diagnosis of pancreas cancer using an animal model. <i>Journal of Toxicologic Pathology</i> , 2019, 32, 135-141.	0.3	6
80	Thirteen-week oral toxicity study of magnesium chloride in B6C3F1 mice. <i>Toxicology Letters</i> , 1994, 73, 25-32.	0.4	4
81	Lack of Prophylactic Effect of Incadronate on Skeletal Lesions Associated with Implants of Prostate Cancer. <i>European Urology</i> , 2006, 49, 176-182.	0.9	4
82	Modifying effects of chitin, chitosan and their related compounds on 2-amino-3,8-dimethylimidazo[4,5-f]quinoxaline (MeIQx) in a rat medium-term hepatocarcinogenesis model, and their post-initiation effects in a female rat 2-stage multi-organ carcinogenesis model. <i>Food and Chemical Toxicology</i> , 2008, 46, 2758-2763.	1.8	4
83	A novel reporter rat strain that expresses LacZ upon Creâ€Cmediated recombination. <i>Genesis</i> , 2013, 51, 268-274.	0.8	4
84	Rat N-ERC/Mesothelin as a Marker for In Vivo Screening of Drugs against Pancreas Cancer. <i>PLoS ONE</i> , 2014, 9, e111481.	1.1	4
85	Pathogenesis of follicular thymic hyperplasia associated with rheumatoid arthritis. <i>Pathology International</i> , 2022, 72, 252-260.	0.6	3
86	Kinetics of Marked Development of Lung Metastasis of Rat Prostatic Carcinomas Transplanted in Syngeneic Rats. <i>Clinical and Experimental Metastasis</i> , 2005, 22, 309-318.	1.7	2
87	Therapeutic and Preventive Effects of Osteoclastogenesis Inhibitory Factor on Osteolysis, Proliferation of Mammary Tumor Cell and Induction of Cancer Stem Cells in the Bone Microenvironment. <i>International Journal of Molecular Sciences</i> , 2018, 19, 888.	1.8	2
88	Myocardial Damage and Microvasculopathy in a Patient With Systemic Sclerosis. <i>Circulation Journal</i> , 2021, 85, 224.	0.7	2
89	Promotive effects of cell proliferation and chromosomal instability induced by tribbles-related protein 3 in mouse mammary tumor cells. <i>Oncology Reports</i> , 2013, 30, 64-70.	1.2	1
90	A Novel Transgenic Mouse Model Carrying Human Tribbles Related Protein 3 (TRB3) Gene and Its Site Specific Phenotype. <i>Biological and Pharmaceutical Bulletin</i> , 2014, 37, 1068-1074.	0.6	1

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91	Differences in Expression Patterns of Cell Cycle Regulators after Cessation of Genotoxic and Non-genotoxic Carcinogen Treatment in the Rat Forestomach. <i>Journal of Toxicologic Pathology</i> , 2008, 21, 77-87.	0.3	1
92	Combined Chemopreventive Effects of Perilla or Corn Oil and Indomethacin in a Rat Medium-Term Multiorgan Carcinogenesis Model. <i>Journal of Toxicologic Pathology</i> , 2007, 20, 245-252.	0.3	1
93	HEAT THERAPY WITH CATIONIC LIPOSOME MIGHT SUPPRESS THE PROLIFERATION OF PROSTATE CANCER IN BONE MICROENVIRONMENT VIA THE REDUCTION OF TGF- $\beta$ 2 LEVEL IN BONE MICROENVIRONMENT. <i>Journal of Urology</i> , 2008, 179, 420-421.	0.2	0
94	In vivo 18F-fluorodeoxyglucose-positron emission tomography/computed tomography imaging of pancreatic tumors in a transgenic rat model carrying the human KRASG12V oncogene. <i>Oncology Letters</i> , 2015, 9, 2112-2118.	0.8	0
95	Suppression of C5a decreases ischemia/reperfusion injury and increases proliferation of epithelial cells in the rat small intestine. <i>Immunobiology</i> , 2016, 221, 1146.	0.8	0
96	Pulmonary atherosclerosis in a patient with chronic thromboembolic pulmonary hypertension. <i>Pathology International</i> , 2021, 71, 164-166.	0.6	0
97	Mathematical Modeling of Tumor Malignancy in Bone Microenvironment. <i>Springer Proceedings in Mathematics and Statistics</i> , 2021, , 235-241.	0.1	0
98	Gene expression profiling using a unique murine mammary tumor model reveal role of novel genes regulating tumor-stromal interaction in mammary tumor-induced osteolysis. <i>FASEB Journal</i> , 2006, 20, A222.	0.2	0
99	547: Suppression of the Prostate Tumor Growth and Bone Destruction in the Bone Microenvironment by Heat Therapy with Magnetic Nano-Particle Conjugated with Cationic Liposome. <i>Journal of Urology</i> , 2007, 177, 182-182.	0.2	0
100	Abstract 3604: Evaluation of carcinogenic effect of multiwall carbon nanotubes on the rat lung at 2 and 52 weeks after pulmonary instillation.. , 2013, , .		0
101	Abstract 3606: Effect of anatase type nanosized titanium dioxide particles on the rat lung and cultured macrophage.. , 2013, , .		0
102	Abstract 182: A new anticancer agent derived from decenoic acid for the treatment of colon cancer. , 2017, , .		0
103	Abstract 2178: Growth inhibition of the crude extracts of <i>Musa basjoo</i> in human colon carcinoma cells. , 2017, , .		0
104	Calvarial Bone Implantation and in vivo Imaging of Tumor Cells in Mice. <i>Bio-protocol</i> , 2019, 9, e3151.	0.2	0
105	Oncogenic isoform switch of tumor suppressor BCL11B in adult T-cell leukemia/lymphoma. <i>Experimental Hematology</i> , 2022, 111, 41-49.	0.2	0