# Muthusamy Thangaraju

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 71 papers | 7,431 citations | 87886 38 h-index | 114455 63 g-index |
| 72 all docs | 72 docs citations | 72 times ranked | 10788 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Activation of Gpr109a, Receptor for Niacin and the Commensal Metabolite Butyrate, Suppresses Colonic Inflammation and Carcinogenesis. Immunity, 2014, 40, 128-139. | 14.3 | 1,654 |
| 2 | Nutrient transporters in cancer: Relevance to Warburg hypothesis and beyond. , 2009, 121, 29-40. | | 613 |
| 3 | GPR109A Is a G-proteinâ€“Coupled Receptor for the Bacterial Fermentation Product Butyrate and Functions as a Tumor Suppressor in Colon. Cancer Research, 2009, 69, 2826-2832. | 0.9 | 553 |
| 4 | Monocytic and granulocytic myeloid derived suppressor cells differentially regulate spatiotemporal tumour plasticity during metastatic cascade. Nature Communications, 2017, 8, 14979. | 12.8 | 292 |
| 5 | Transporters and receptors for short-chain fatty acids as the molecular link between colonic bacteria and the host. Current Opinion in Pharmacology, 2013, 13, 869-874. | 3.5 | 229 |
| 6 | Blockade of Dendritic Cell Development by Bacterial Fermentation Products Butyrate and Propionate through a Transporter (Slc5a8)-dependent Inhibition of Histone Deacetylases. Journal of Biological Chemistry, 2010, 285, 27601-27608. | 3.4 | 219 |
| 7 | Butyrate suppresses colonic inflammation through HDAC1-dependent Fas upregulation and Fas-mediated apoptosis of T cells. American Journal of Physiology - Renal Physiology, 2012, 302, G1405-G1415. | 3.4 | 218 |
| 8 | DNMT1 is essential for mammary and cancer stem cell maintenance and tumorigenesis. Nature Communications, 2015, 6, 6910. | 12.8 | 204 |
| 9 | Sodium-coupled Monocarboxylate Transporters in Normal Tissues and in Cancer. AAPS Journal, 2008, 10, 193-9. | 4.4 | 189 |
| 10 | SLC6A14 (ATB0,+) Protein, a Highly Concentrative and Broad Specific Amino Acid Transporter, Is a Novel and Effective Drug Target for Treatment of Estrogen Receptor-positive Breast Cancer. Journal of Biological Chemistry, 2011, 286, 31830-31838. | 3.4 | 157 |
| 11 | SLC5A8 Triggers Tumor Cell Apoptosis through Pyruvate-Dependent Inhibition of Histone Deacetylases. Cancer Research, 2006, 66, 11560-11564. | 0.9 | 132 |
| 12 | Colon cancer cells maintain low levels of pyruvate to avoid cell death caused by inhibition of HDAC1/HDAC3. Biochemical Journal, 2009, 417, 379-389. | 3.7 | 129 |
| 13 | Colonic Gene Expression in Conventional and Germ-Free Mice with a Focus on the Butyrate Receptor GPR109A and the Butyrate Transporter SLC5A8. Journal of Gastrointestinal Surgery, 2010, 14, 449-461. | 1.7 | 127 |
| 14 | SIRT1 Is Essential for Oncogenic Signaling by Estrogen/Estrogen Receptor Î± in Breast Cancer. Cancer Research, 2011, 71, 6654-6664. | 0.9 | 122 |
| 15 | Combined Inhibition of DNMT and HDAC Blocks the Tumorigenicity of Cancer Stem-like Cells and Attenuates Mammary Tumor Growth. Cancer Research, 2016, 76, 3224-3235. | 0.9 | 122 |
| 16 | Interaction of tryptophan derivatives with SLC6A14 (ATB0,+) reveals the potential of the transporter as a drug target for cancer chemotherapy. Biochemical Journal, 2008, 414, 343-355. | 3.7 | 110 |
| 17 | Caspase-8-mediated Intracellular Acidification Precedes Mitochondrial Dysfunction in Somatostatin-induced Apoptosis. Journal of Biological Chemistry, 2000, 275, 9244-9250. | 3.4 | 103 |
| 18 | Canonical Wnt Signaling in Dendritic Cells Regulates Th1/Th17 Responses and Suppresses Autoimmune Neuroinflammation. Journal of Immunology, 2015, 194, 3295-3304. | 0.8 | 101 |

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|---|---|---|---|
| 19 | GPR81, a Cell-Surface Receptor for Lactate, Regulates Intestinal Homeostasis and Protects Mice from Experimental Colitis. Journal of Immunology, 2018, 200, 1781-1789. | 0.8 | 99 |
| 20 | The Niacin/Butyrate Receptor GPR109A Suppresses Mammary Tumorigenesis by Inhibiting Cell Survival. Cancer Research, 2014, 74, 1166-1178. | 0.9 | 97 |
| 21 | Regulation of Acidification and Apoptosis by SHP-1 and Bcl-2. Journal of Biological Chemistry, 1999, 274, 29549-29557. | 3.4 | 94 |
| 22 | GPR109A as an Anti-Inflammatory Receptor in Retinal Pigment Epithelial Cells and Its Relevance to Diabetic Retinopathy. , 2012, 53, 2208. | | 90 |
| 23 | Effect of tamoxifen on plasma lipids and lipoproteins in postmenopausal women with breast cancer. Cancer, 1994, 73, 659-663. | 4.1 | 89 |
| 24 | C/EBPÎ´ is a crucial regulator of pro-apoptotic gene expression during mammary gland involution. Development (Cambridge), 2005, 132, 4675-4685. | 2.5 | 84 |
| 25 | Repression of IFN Regulatory Factor 8 by DNA Methylation Is a Molecular Determinant of Apoptotic Resistance and Metastatic Phenotype in Metastatic Tumor Cells. Cancer Research, 2007, 67, 3301-3309. | 0.9 | 82 |
| 26 | SLC transporters as a novel class of tumour suppressors: identity, function and molecular mechanisms. Biochemical Journal, 2016, 473, 1113-1124. | 3.7 | 81 |
| 27 | Prevention of Excitotoxicity in Primary Retinal Ganglion Cells by (+)-Pentazocine, a Sigma Receptor-1â€“Specific Ligand. , 2007, 48, 4785. | | 79 |
| 28 | c/ebpÎ´ Null Mouse as a Model for the Double Knock-out of slc5a8 and slc5a12 in Kidney. Journal of Biological Chemistry, 2006, 281, 26769-26773. | 3.4 | 76 |
| 29 | Sigma Receptor 1 Modulates Endoplasmic Reticulum Stress in Retinal Neurons. , 2011, 52, 527. | | 76 |
| 30 | Sodium-Coupled Transport of the Short Chain Fatty Acid Butyrate by SLC5A8 and Its Relevance to Colon Cancer. Journal of Gastrointestinal Surgery, 2008, 12, 1773-1782. | 1.7 | 72 |
| 31 | Deletion of the amino acid transporter Slc6a14 suppresses tumour growth in spontaneous mouse models of breast cancer. Biochemical Journal, 2015, 469, 17-23. | 3.7 | 72 |
| 32 | Deletion of LRP5 and LRP6 in dendritic cells enhances antitumor immunity. OncoImmunology, 2016, 5, e1115941. | 4.6 | 72 |
| 33 | Metabolic Reprogramming by MYCN Confers Dependence on the Serine-Glycine-One-Carbon Biosynthetic Pathway. Cancer Research, 2019, 79, 3837-3850. | 0.9 | 68 |
| 34 | Homeostatic PPARÎ± Signaling Limits Inflammatory Responses to Commensal Microbiota in the Intestine. Journal of Immunology, 2016, 196, 4739-4749. | 0.8 | 62 |
| 35 | Lactate-Dependent Regulation of Immune Responses by Dendritic Cells and Macrophages. Frontiers in Immunology, 2021, 12, 691134. | 4.8 | 59 |
| 36 | Transport by SLC5A8 with subsequent inhibition of histone deacetylase 1 (HDAC1) and HDAC3 underlies the antitumor activity of 3â€bromopyruvate. Cancer, 2009, 115, 4655-4666. | 4.1 | 57 |

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|---|---|---|---|
| 37 | Effect of tamoxifen on lipid peroxide and antioxidative system in postmenopausal women with breast cancer. Cancer, 1994, 74, 78-82. | 4.1 | 54 |
| 38 | Iron Overload Accelerates the Progression of Diabetic Retinopathy in Association with Increased Retinal Renin Expression. Scientific Reports, 2018, 8, 3025. | 3.3 | 52 |
| 39 | Absence of iron-regulatory protein Hfe results in hyperproliferation of retinal pigment epithelium: role of cystine/glutamate exchanger. Biochemical Journal, 2009, 424, 243-252. | 3.7 | 51 |
| 40 | IFN Regulatory Factor 8 Mediates Apoptosis in Nonhemopoietic Tumor Cells via Regulation of Fas Expression. Journal of Immunology, 2007, 179, 4775-4782. | 0.8 | 48 |
| 41 | IFNÎ³ Induces DNA Methylationâ€“Silenced GPR109A Expression via pSTAT1/p300 and H3K18 Acetylation in Colon Cancer. Cancer Immunology Research, 2015, 3, 795-805. | 3.4 | 44 |
| 42 | Type 2 cGMP-dependent protein kinase regulates proliferation and differentiation in the colonic mucosa. American Journal of Physiology - Renal Physiology, 2012, 303, G209-G219. | 3.4 | 39 |
| 43 | The plasma membrane transporter SLC5A8 suppresses tumour progression through depletion of survivin without involving its transport function. Biochemical Journal, 2013, 450, 169-178. | 3.7 | 39 |
| 44 | Oral Pathobiont Activates Anti-Apoptotic Pathway, Promoting both Immune Suppression and Oncogenic Cell Proliferation. Scientific Reports, 2018, 8, 16607. | 3.3 | 35 |
| 45 | Canonical Wnt Signaling in CD11c+ APCs Regulates Microbiota-Induced Inflammation and Immune Cell Homeostasis in the Colon. Journal of Immunology, 2018, 200, 3259-3268. | 0.8 | 34 |
| 46 | SLC6A14, a Na+/Clâ^'-coupled amino acid transporter, functions as a tumor promoter in colon and is a target for Wnt signaling. Biochemical Journal, 2020, 477, 1409-1425. | 3.7 | 33 |
| 47 | Promoter Methylation Modulates Indoleamine 2,3-Dioxygenase 1 Induction by Activated T Cells in Human Breast Cancers. Cancer Immunology Research, 2017, 5, 330-344. | 3.4 | 28 |
| 48 | Î±-Lipoic acid inhibits the migration and invasion of breast cancer cells through inhibition of TGFÎ² signaling. Life Sciences, 2018, 207, 15-22. | 4.3 | 28 |
| 49 | Molecular Mechanism of SLC5A8 Inactivation in Breast Cancer. Molecular and Cellular Biology, 2013, 33, 3920-3935. | 2.3 | 27 |
| 50 | Chronic exposure to excess iron promotes EMT and cancer via p53 loss in pancreatic cancer. Asian Journal of Pharmaceutical Sciences, 2020, 15, 237-251. | 9.1 | 24 |
| 51 | Deferiprone: Pan-selective Histone Lysine Demethylase Inhibition Activity and Structure Activity Relationship Study. Scientific Reports, 2019, 9, 4802. | 3.3 | 20 |
| 52 | Selenomethionine (Se-Met) Induces the Cystine/Glutamate Exchanger SLC7A11 in Cultured Human Retinal Pigment Epithelial (RPE) Cells: Implications for Antioxidant Therapy in Aging Retina. Antioxidants, 2021, 10, 9. | 5.1 | 20 |
| 53 | Expression and function of SLC38A5, an amino acid-coupled Na+/H+ exchanger, in triple-negative breast cancer and its relevance to macropinocytosis. Biochemical Journal, 2021, 478, 3957-3976. | 3.7 | 20 |
| 54 | Loss ofHfeLeads to Progression of Tumor Phenotype in Primary Retinal Pigment Epithelial Cells. , 2013, 54, 63. | | 19 |

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|---|---|---|---|
| 55 | RAD51AP1 Deficiency Reduces Tumor Growth by Targeting Stem Cell Self-Renewal. Cancer Research, 2020, 80, 3855-3866. | 0.9 | 19 |
| 56 | Increased Retinal Expression of the Pro-Angiogenic Receptor GPR91 via BMP6 in a Mouse Model of Juvenile Hemochromatosis. , 2016, 57, 1612. | | 14 |
| 57 | RAD51AP1 Loss Attenuates Colorectal Cancer Stem Cell Renewal and Sensitizes to Chemotherapy. Molecular Cancer Research, 2021, 19, 1486-1497. | 3.4 | 13 |
| 58 | Alcohol-induced ketonemia is associated with lowering of blood glucose, downregulation of gluconeogenic genes, and depletion of hepatic glycogen in type 2 diabetic db/db mice. Biochemical Pharmacology, 2019, 160, 46-61. | 4.4 | 11 |
| 59 | Design, Synthesis, and Molecular Docking Studies of Curcumin Hybrid Conjugates as Potential Therapeutics for Breast Cancer. Pharmaceuticals, 2022, 15, 451. | 3.8 | 11 |
| 60 | Wasf3 Deficiency Reveals Involvement in Metastasis in a Mouse Model of Breast Cancer. American Journal of Pathology, 2019, 189, 2450-2458. | 3.8 | 10 |
| 61 | Activation of Transcription Factor 4 in Dendritic Cells Controls Th1/Th17 Responses and Autoimmune Neuroinflammation. Journal of Immunology, 2021, 207, 1428-1436. | 0.8 | 10 |
| 62 | Comparison of mammary gland involution between 129S1 and C57BL/6 inbred mouse strains: differential regulation of Bcl2a1, Trp53, Cebpb, and Cebpd expression. Oncogene, 2004, 23, 2548-2553. | 5.9 | 9 |
| 63 | The Wntâ€“Î²-Cateninâ€“IL-10 Signaling Axis in Intestinal APCs Protects Mice from Colitis-Associated Colon Cancer in Response to Gut Microbiota. Journal of Immunology, 2020, 205, 2265-2275. | 0.8 | 8 |
| 64 | Molecular targeting of renal cell carcinoma by an oral combination. Oncogenesis, 2020, 9, 52. | 4.9 | 8 |
| 65 | Downregulation of retinoblastoma protein is involved in the enhanced cytotoxicity of 4-hydroxytamoxifen plus mifepristone combination therapy versus antiestrogen monotherapy of human breast cancer. International Journal of Oncology, 2007, 31, 643. | 3.3 | 6 |
| 66 | Exacerbation of AMD Phenotype in Lasered CNV Murine Model by Dysbiotic Oral Pathogens. Antioxidants, 2021, 10, 309. | 5.1 | 5 |
| 67 | Cyclic 3â€²,5â€²-guanosine monophosphate-dependent protein kinase inhibits colon cancer cell adaptation to hypoxia. Cancer, 2011, 117, 5282-5293. | 4.1 | 4 |
| 68 | Influence of Cyclophosphamide and Vitamin E Administration on the Rate of Lipid Peroxidation in Experimental fibrosarcoma in Rats.. Journal of Clinical Biochemistry and Nutrition, 1995, 18, 79-87. | 1.4 | 2 |
| 69 | Genetic Deletion of LRP5 and LRP6 in Macrophages Exacerbates Colitis-Associated Systemic Inflammation and Kidney Injury in Response to Intestinal Commensal Microbiota. Journal of Immunology, 2022, 209, 368-378. | 0.8 | 2 |
| 70 | Vitamin B3: niacin and transcriptome analysis in relation to the GPR109A receptor. , 2020, , 673-690. | | 1 |
| 71 | Netrin-1 overexpression induces polycystic kidney disease - a novel mechanism contributing cystogenesis in ADPKD.. American Journal of Pathology, 2022, , . | 3.8 | 0 |