

# Senthil K Muthuswamy

## List of Publications by Year in descending order

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85  
papers

10,613  
citations

53794

45  
h-index

58581

82  
g-index

91  
all docs

91  
docs citations

91  
times ranked

15062  
citing authors

#	ARTICLE	IF	CITATIONS
1	Morphogenesis and oncogenesis of MCF-10A mammary epithelial acini grown in three-dimensional basement membrane cultures. <i>Methods</i> , 2003, 30, 256-268.	3.8	1,715
2	The Role of Apoptosis in Creating and Maintaining Luminal Space within Normal and Oncogene-Expressing Mammary Acini. <i>Cell</i> , 2002, 111, 29-40.	28.9	742
3	Ductal pancreatic cancer modeling and drug screening using human pluripotent stem cell- and patient-derived tumor organoids. <i>Nature Medicine</i> , 2015, 21, 1364-1371.	30.7	591
4	ErbB2, but not ErbB1, reinitiates proliferation and induces luminal repopulation in epithelial acini. <i>Nature Cell Biology</i> , 2001, 3, 785-792.	10.3	523
5	Integrins and EGFR coordinately regulate the pro-apoptotic protein Bim to prevent anoikis. <i>Nature Cell Biology</i> , 2003, 5, 733-740.	10.3	481
6	HER2 kinase domain mutation results in constitutive phosphorylation and activation of HER2 and EGFR and resistance to EGFR tyrosine kinase inhibitors. <i>Cancer Cell</i> , 2006, 10, 25-38.	16.8	426
7	Deregulation of Scribble Promotes Mammary Tumorigenesis and Reveals a Role for Cell Polarity in Carcinoma. <i>Cell</i> , 2008, 135, 865-878.	28.9	364
8	The splicing factor SRSF1 regulates apoptosis and proliferation to promote mammary epithelial cell transformation. <i>Nature Structural and Molecular Biology</i> , 2012, 19, 220-228.	8.2	342
9	Controlled Dimerization of ErbB Receptors Provides Evidence for Differential Signaling by Homo- and Heterodimers. <i>Molecular and Cellular Biology</i> , 1999, 19, 6845-6857.	2.3	316
10	Targeting the disordered C terminus of PTP1B with an allosteric inhibitor. <i>Nature Chemical Biology</i> , 2014, 10, 558-566.	8.0	294
11	Prostate cancer-associated SPOP mutations confer resistance to BET inhibitors through stabilization of BRD4. <i>Nature Medicine</i> , 2017, 23, 1063-1071.	30.7	240
12	Par6 $\alpha$ PKC uncouples ErbB2 induced disruption of polarized epithelial organization from proliferation control. <i>Nature Cell Biology</i> , 2006, 8, 1235-1245.	10.3	226
13	Cooperation of the ErbB2 receptor and transforming growth factor $\beta$ in induction of migration and invasion in mammary epithelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1257-1262.	7.1	222
14	A role for microRNAs in maintenance of mouse mammary epithelial progenitor cells. <i>Genes and Development</i> , 2007, 21, 3238-3243.	5.9	195
15	Requirement for Both Shc and Phosphatidylinositol 3 $\alpha$ Kinase Signaling Pathways in Polyomavirus Middle T-Mediated Mammary Tumorigenesis. <i>Molecular and Cellular Biology</i> , 1998, 18, 2344-2359.	2.3	189
16	$\beta$ -Np63 $\beta$ Is an Oncogene that Targets Chromatin Remodeler Lsh to Drive Skin Stem Cell Proliferation and Tumorigenesis. <i>Cell Stem Cell</i> , 2011, 8, 164-176.	11.1	175
17	Activation of the c-Src tyrosine kinase is required for the induction of mammary tumors in transgenic mice.. <i>Genes and Development</i> , 1994, 8, 23-32.	5.9	174
18	Epidermal Growth Factor Receptor-Dependent Regulation of Integrin-Mediated Signaling and Cell Cycle Entry in Epithelial Cells. <i>Molecular and Cellular Biology</i> , 2004, 24, 8586-8599.	2.3	153

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19	Loss of Par3 promotes breast cancer metastasis by compromising cell-cell cohesion. <i>Nature Cell Biology</i> , 2013, 15, 189-200.	10.3	143
20	Bim Regulation of Lumen Formation in Cultured Mammary Epithelial Acini Is Targeted by Oncogenes. <i>Molecular and Cellular Biology</i> , 2005, 25, 4591-4601.	2.3	130
21	Rotational motion during three-dimensional morphogenesis of mammary epithelial acini relates to laminin matrix assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 163-168.	7.1	130
22	Cell Polarity as a Regulator of Cancer Cell Behavior Plasticity. <i>Annual Review of Cell and Developmental Biology</i> , 2012, 28, 599-625.	9.4	123
23	The Polarity Protein Par6 Induces Cell Proliferation and Is Overexpressed in Breast Cancer. <i>Cancer Research</i> , 2008, 68, 8201-8209.	0.9	121
24	Polarity protein alterations in carcinoma: a focus on emerging roles for polarity regulators. <i>Current Opinion in Genetics and Development</i> , 2010, 20, 41-50.	3.3	112
25	Brk is coamplified with ErbB2 to promote proliferation in breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12463-12468.	7.1	104
26	Short Preoperative Treatment With Erlotinib Inhibits Tumor Cell Proliferation in Hormone Receptor-Positive Breast Cancers. <i>Journal of Clinical Oncology</i> , 2008, 26, 897-906.	1.6	103
27	LLGL2 rescues nutrient stress by promoting leucine uptake in ER+ breast cancer. <i>Nature</i> , 2019, 569, 275-279.	27.8	99
28	Targeting Pin1 renders pancreatic cancer eradicable by synergizing with immunochemotherapy. <i>Cell</i> , 2021, 184, 4753-4771.e27.	28.9	99
29	Mislocalization of the Cell Polarity Protein Scribble Promotes Mammary Tumorigenesis and Is Associated with Basal Breast Cancer. <i>Cancer Research</i> , 2014, 74, 3180-3194.	0.9	97
30	A Rac-Pak signaling pathway is essential for ErbB2-mediated transformation of human breast epithelial cancer cells. <i>Oncogene</i> , 2010, 29, 5839-5849.	5.9	92
31	A Brake Becomes an Accelerator: PTP1B-A New Therapeutic Target for Breast Cancer. <i>Cancer Cell</i> , 2007, 11, 214-216.	16.8	86
32	Par complex in cancer: a regulator of normal cell polarity joins the dark side. <i>Oncogene</i> , 2008, 27, 6878-6887.	5.9	86
33	Polarity proteins regulate mammalian cell-cell junctions and cancer pathogenesis. <i>Current Opinion in Cell Biology</i> , 2009, 21, 694-700.	5.4	82
34	Cyfp1 Is a Putative Invasion Suppressor in Epithelial Cancers. <i>Cell</i> , 2009, 137, 1047-1061.	28.9	77
35	G-protein-coupled receptor GPR161 is overexpressed in breast cancer and is a promoter of cell proliferation and invasion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4191-4196.	7.1	70
36	Differential Functions of Splicing Factors in Mammary Transformation and Breast Cancer Metastasis. <i>Cell Reports</i> , 2019, 29, 2672-2688.e7.	6.4	70

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37	Personalized RNA Medicine for Pancreatic Cancer. <i>Clinical Cancer Research</i> , 2018, 24, 1734-1747.	7.0	67
38	PDX-derived organoids model in vivo drug response and secrete biomarkers. <i>JCI Insight</i> , 2020, 5, .	5.0	66
39	Identification of PTPN23 as a novel regulator of cell invasion in mammary epithelial cells from a loss-of-function screen of the 'PTP-ome'. <i>Genes and Development</i> , 2011, 25, 1412-1425.	5.9	65
40	Genome-wide synthetic lethal screen unveils novel CAIX-NFS1/xCT axis as a targetable vulnerability in hypoxic solid tumors. <i>Science Advances</i> , 2021, 7, .	10.3	65
41	Controlled Activation of ErbB1/ErbB2 Heterodimers Promote Invasion of Three-Dimensional Organized Epithelia in an ErbB1-Dependent Manner: Implications for Progression of ErbB2-Overexpressing Tumors. <i>Cancer Research</i> , 2006, 66, 5201-5208.	0.9	61
42	Commitment and oncogene-induced plasticity of human stem cell-derived pancreatic acinar and ductal organoids. <i>Cell Stem Cell</i> , 2021, 28, 1090-1104.e6.	11.1	57
43	p130Cas is an essential transducer element in ErbB2 transformation. <i>FASEB Journal</i> , 2010, 24, 3796-3808.	0.5	49
44	ErbB receptors and cell polarity: New pathways and paradigms for understanding cell migration and invasion. <i>Experimental Cell Research</i> , 2009, 315, 707-716.	2.6	48
45	Preclinical target validation using patient-derived cells. <i>Nature Reviews Drug Discovery</i> , 2015, 14, 149-150.	46.4	46
46	Using Three-Dimensional Acinar Structures for Molecular and Cell Biological Assays. <i>Methods in Enzymology</i> , 2006, 406, 692-701.	1.0	45
47	Reinterpreting polarity and cancer: The changing landscape from tumor suppression to tumor promotion. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2018, 1869, 103-116.	7.4	42
48	An interaction between Scribble and the NADPH oxidase complex controls M1 macrophage polarization and function. <i>Nature Cell Biology</i> , 2016, 18, 1244-1252.	10.3	41
49	A novel role for <i>14-3-3</i> in regulating epithelial cell polarity. <i>Genes and Development</i> , 2010, 24, 947-956.	5.9	40
50	Organoid Sensitivity Correlates with Therapeutic Response in Patients with Pancreatic Cancer. <i>Clinical Cancer Research</i> , 2022, 28, 708-718.	7.0	38
51	Activation Of The Src Family Of Tyrosine Kinases In Mammary Tumorigenesis. <i>Advances in Cancer Research</i> , 1994, 64, 111-123.	5.0	35
52	Illuminating the Center: Mechanisms Regulating Lumen Formation and Maintenance in Mammary Morphogenesis. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2006, 11, 205-211.	2.7	34
53	Expression Profiling during Mammary Epithelial Cell Three-Dimensional Morphogenesis Identifies PTPRO as a Novel Regulator of Morphogenesis and ErbB2-Mediated Transformation. <i>Molecular and Cellular Biology</i> , 2012, 32, 3913-3924.	2.3	34
54	The Signaling Adaptor Gab1 Regulates Cell Polarity by Acting as a PAR Protein Scaffold. <i>Molecular Cell</i> , 2012, 47, 469-483.	9.7	33

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55	Discovery of New Targets to Control Metastasis in Pancreatic Cancer by Single-cell Transcriptomics Analysis of Circulating Tumor Cells. <i>Molecular Cancer Therapeutics</i> , 2020, 19, 1751-1760.	4.1	31
56	Dysregulation of Cell Polarity Proteins Synergize with Oncogenes or the Microenvironment to Induce Invasive Behavior in Epithelial Cells. <i>PLoS ONE</i> , 2012, 7, e34343.	2.5	30
57	Regulators of Metastasis Modulate the Migratory Response to Cell Contact under Spatial Confinement. <i>Biophysical Journal</i> , 2016, 110, 1886-1895.	0.5	27
58	Trastuzumab resistance: all roads lead to SRC. <i>Nature Medicine</i> , 2011, 17, 416-418.	30.7	26
59	Empirical identification and validation of tumor-targeting T cell receptors from circulation using autologous pancreatic tumor organoids. , 2021, 9, e003213.		25
60	Abnormal exocrine-endocrine cell cross-talk promotes $\beta$ -cell dysfunction and loss in MODY8. <i>Nature Metabolism</i> , 2022, 4, 76-89.	11.9	25
61	Organoid Models of Cancer Explode with Possibilities. <i>Cell Stem Cell</i> , 2018, 22, 290-291.	11.1	20
62	Shc is required for ErbB2-induced inhibition of apoptosis but is dispensable for cell proliferation and disruption of cell polarity. <i>Oncogene</i> , 2010, 29, 174-187.	5.9	19
63	Reporters to mark and eliminate basal or luminal epithelial cells in culture and in vivo. <i>PLoS Biology</i> , 2018, 16, e2004049.	5.6	17
64	3D culture reveals a signaling network. <i>Breast Cancer Research</i> , 2011, 13, 103.	5.0	16
65	Synthesis and Structure-Activity Relationships of DCLK1 Kinase Inhibitors Based on a 5,11-Dihydro-6 <i>H</i> -benzo[ <i>e</i> ]pyrimido[5,4- <i>b</i> ][1,4]diazepin-6-one Scaffold. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 7817-7826.	6.4	16
66	ErbB2 Makes $\beta$ 4 Integrin an Accomplice in Tumorigenesis. <i>Cell</i> , 2006, 126, 443-445.	28.9	14
67	Golgi Stabilization, Not Its Front-Rear Bias, Is Associated with EMT-Enhanced Fibrillar Migration. <i>Biophysical Journal</i> , 2018, 115, 2067-2077.	0.5	14
68	Elevated levels of mitochondrial CoQ10 induce ROS-mediated apoptosis in pancreatic cancer. <i>Scientific Reports</i> , 2021, 11, 5749.	3.3	14
69	Autocrine prolactin: an emerging market for homegrown (prolactin) despite the imports. <i>Genes and Development</i> , 2012, 26, 2253-2258.	5.9	12
70	Bringing together the organoid field: from early beginnings to the road ahead. <i>Development (Cambridge)</i> , 2017, 144, 963-967.	2.5	12
71	Self-organization in cancer: Implications for histopathology, cancer cell biology, and metastasis. <i>Cancer Cell</i> , 2021, 39, 443-446.	16.8	12
72	Insights into Immune Escape During Tumor Evolution and Response to Immunotherapy Using a Rat Model of Breast Cancer. <i>Cancer Immunology Research</i> , 2022, 10, 680-697.	3.4	12

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73	Epithelial Cell Organization Suppresses Myc Function by Attenuating Myc Expression. <i>Cancer Research</i> , 2011, 71, 3822-3830.	0.9	11
74	A Novel Phosphatidic Acid-Protein-tyrosine Phosphatase D2 Axis Is Essential for ERBB2 Signaling in Mammary Epithelial Cells. <i>Journal of Biological Chemistry</i> , 2015, 290, 9646-9659.	3.4	11
75	SCRIBBLE is required for pregnancy-induced alveologenesis in the adult mammary gland. <i>Journal of Cell Science</i> , 2016, 129, 2307-15.	2.0	11
76	Polarity protein SCRIB interacts with SLC3A2 to regulate proliferation and tamoxifen resistance in ER+ breast cancer. <i>Communications Biology</i> , 2022, 5, 403.	4.4	8
77	Positive Quantitative Relationship between EMT and Contact-Initiated Sliding on Fiber-like Tracks. <i>Biophysical Journal</i> , 2016, 111, 1569-1574.	0.5	7
78	A New Tumor Suppressor That Regulates Tissue Architecture. <i>PLoS Medicine</i> , 2009, 6, e1000073.	8.4	6
79	Disruption of the coordinate expression of muscle genes in a transfected BC <sub>3</sub> H1 myoblast cell line producing a low level of the adenovirus E1A transforming protein. <i>Biochemistry and Cell Biology</i> , 1992, 70, 1268-1276.	2.0	3
80	A Hybrid Neuro-Fuzzy Based Fault Diagnostic Technique for Bearings Condition-Based Maintenance. , 0, , ,		2
81	The Unfolded Protein Response Causes Prothrombotic Transformation of Pancreatic Cancer Linking Tumor Progression with Cancer-Associated Thrombosis. <i>Blood</i> , 2019, 134, 632-632.	1.4	2
82	Scribble is required for pregnancy-induced alveologenesis in the adult mammary gland. <i>Development (Cambridge)</i> , 2016, 143, e1.1-e1.1.	2.5	1
83	Large scale proteomics of circulating extracellular vesicles to reveal novel biomarkers for pancreatic cancer.. <i>Journal of Clinical Oncology</i> , 2022, 40, 523-523.	1.6	1
84	Impact of Epithelial Organization on Myc Expression and Activityâ€™Response. <i>Cancer Research</i> , 2012, 72, 1036-1036.	0.9	0
85	Editorial overview: Cell differentiation and development: New kids in the block â€™ new tools and concepts opening new doors in development. <i>Current Opinion in Cell Biology</i> , 2017, 49, iv-v.	5.4	0