

# Cecilia Sahlgren

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81

papers

5,653

citations

35

h-index

75

g-index

83

ext. papers

6,281

ext. citations

7.5

avg, IF

5.62

L-index

#	Paper	IF	Citations
81	Notch signaling mediates hypoxia-induced tumor cell migration and invasion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 6392-7	11.5	616
80	Mesoporous silica nanoparticles in medicine--recent advances. <i>Advanced Drug Delivery Reviews</i> , <b>2013</b> , 65, 689-702	18.5	509
79	Towards multifunctional, targeted drug delivery systems using mesoporous silica nanoparticles--opportunities & challenges. <i>Nanoscale</i> , <b>2010</b> , 2, 1870-83	7.7	442
78	Targeting of porous hybrid silica nanoparticles to cancer cells. <i>ACS Nano</i> , <b>2009</b> , 3, 197-206	16.7	438
77	Intermediate filament protein partnership in astrocytes. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 23996-4006	5.4	286
76	Nanoparticles in targeted cancer therapy: mesoporous silica nanoparticles entering preclinical development stage. <i>Nanomedicine</i> , <b>2012</b> , 7, 111-20	5.6	205
75	Targeted intracellular delivery of hydrophobic agents using mesoporous hybrid silica nanoparticles as carrier systems. <i>Nano Letters</i> , <b>2009</b> , 9, 3308-11	11.5	194
74	Mesoporous silica nanoparticles as drug delivery systems for targeted inhibition of Notch signaling in cancer. <i>Molecular Therapy</i> , <b>2011</b> , 19, 1538-46	11.7	176
73	Cancer-cell-specific induction of apoptosis using mesoporous silica nanoparticles as drug-delivery vectors. <i>Small</i> , <b>2010</b> , 6, 1234-41	11	142
72	Notch signaling regulates platelet-derived growth factor receptor-beta expression in vascular smooth muscle cells. <i>Circulation Research</i> , <b>2008</b> , 102, 1483-91	15.7	136
71	A nestin scaffold links Cdk5/p35 signaling to oxidant-induced cell death. <i>EMBO Journal</i> , <b>2006</b> , 25, 4808-19	10.3	132
70	The expression of intermediate filament protein nestin as related to vimentin and desmin in regenerating skeletal muscle. <i>Journal of Neuropathology and Experimental Neurology</i> , <b>2001</b> , 60, 588-97	3.1	127
69	Cdk5 regulates the organization of Nestin and its association with p35. <i>Molecular and Cellular Biology</i> , <b>2003</b> , 23, 5090-106	4.8	123
68	Multifunctional mesoporous silica nanoparticles for combined therapeutic, diagnostic and targeted action in cancer treatment. <i>Current Drug Targets</i> , <b>2011</b> , 12, 1166-86	3	122
67	Astrocytes negatively regulate neurogenesis through the Jagged1-mediated Notch pathway. <i>Stem Cells</i> , <b>2012</b> , 30, 2320-9	5.8	108
66	Whole-tissue biopsy phenotyping of three-dimensional tumours reveals patterns of cancer heterogeneity. <i>Nature Biomedical Engineering</i> , <b>2017</b> , 1, 796-806	19	96
65	Non-canonical Notch signaling activates IL-6/JAK/STAT signaling in breast tumor cells and is controlled by p53 and IKK. <i>Oncogene</i> , <b>2013</b> , 32, 4892-902	9.2	95

64	Mitotic reorganization of the intermediate filament protein nestin involves phosphorylation by cdc2 kinase. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 16456-63	5.4	93
63	Core-shell designs of photoluminescent nanodiamonds with porous silica coatings for bioimaging and drug delivery II: application. <i>Nanoscale</i> , <b>2013</b> , 5, 3713-22	7.7	88
62	Cancer-cell targeting and cell-specific delivery by mesoporous silica nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 2707		86
61	Hypo- and hyperactivated Notch signaling induce a glycolytic switch through distinct mechanisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 18814-9	11.5	83
60	Specific and innervation-regulated expression of the intermediate filament protein nestin at neuromuscular and myotendinous junctions in skeletal muscle. <i>American Journal of Pathology</i> , <b>1999</b> , 154, 591-600	5.8	78
59	Inhibiting Notch Activity in Breast Cancer Stem Cells by Glucose Functionalized Nanoparticles Carrying Esecretase Inhibitors. <i>Molecular Therapy</i> , <b>2016</b> , 24, 926-36	11.7	76
58	High levels of Notch signaling down-regulate Numb and Numlike. <i>Journal of Cell Biology</i> , <b>2006</b> , 175, 535-40	7.3	71
57	Mesoporous silica nanoparticles in tissue engineering--a perspective. <i>Nanomedicine</i> , <b>2016</b> , 11, 391-402	5.6	67
56	Selective regulation of Notch ligands during angiogenesis is mediated by vimentin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E4574-E4581	11.5	61
55	A biomimetic microfluidic model to study signalling between endothelial and vascular smooth muscle cells under hemodynamic conditions. <i>Lab on A Chip</i> , <b>2018</b> , 18, 1607-1620	7.2	58
54	Feasibility Study of the Permeability and Uptake of Mesoporous Silica Nanoparticles across the Blood-Brain Barrier. <i>PLoS ONE</i> , <b>2016</b> , 11, e0160705	3.7	55
53	Shape engineering vs organic modification of inorganic nanoparticles as a tool for enhancing cellular internalization. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 358	5	51
52	Notch induces cyclin-D1-dependent proliferation during a specific temporal window of neural differentiation in ES cells. <i>Developmental Biology</i> , <b>2010</b> , 348, 153-66	3.1	49
51	Vimentin regulates Notch signaling strength and arterial remodeling in response to hemodynamic stress. <i>Scientific Reports</i> , <b>2019</b> , 9, 12415	4.9	38
50	Nestin as a regulator of Cdk5 in differentiating myoblasts. <i>Molecular Biology of the Cell</i> , <b>2011</b> , 22, 1539-49	3.5	38
49	Phosphorylation of Notch1 by Pim kinases promotes oncogenic signaling in breast and prostate cancer cells. <i>Oncotarget</i> , <b>2016</b> , 7, 43220-43238	3.3	38
48	Mechanosensitivity of Jagged-Notch signaling can induce a switch-type behavior in vascular homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, E3682-E3691	11.5	35
47	Mesoporous silica nanoparticle-based substrates for cell directed delivery of Notch signalling modulators to control myoblast differentiation. <i>Nanoscale</i> , <b>2014</b> , 6, 1490-8	7.7	35

46	Mesoporous silica particle-PLA-PANI hybrid scaffolds for cell-directed intracellular drug delivery and tissue vascularization. <i>Nanoscale</i> , <b>2015</b> , 7, 14434-43	7.7	33
45	PKC $\beta$ regulates Notch receptor routing and activity in a Notch signaling-dependent manner. <i>Cell Research</i> , <b>2014</b> , 24, 433-50	24.7	31
44	Analyses in zebrafish embryos reveal that nanotoxicity profiles are dependent on surface-functionalization controlled penetrance of biological membranes. <i>Scientific Reports</i> , <b>2017</b> , 7, 8423	4.9	30
43	Keratins regulate colonic epithelial cell differentiation through the Notch1 signalling pathway. <i>Cell Death and Differentiation</i> , <b>2017</b> , 24, 984-996	12.7	29
42	Cardiac Progenitor Cells and the Interplay with Their Microenvironment. <i>Stem Cells International</i> , <b>2017</b> , 2017, 7471582	5	29
41	Targeted modulation of cell differentiation in distinct regions of the gastrointestinal tract via oral administration of differently PEG-PEI functionalized mesoporous silica nanoparticles. <i>International Journal of Nanomedicine</i> , <b>2016</b> , 11, 299-313	7.3	28
40	Interactions between Notch- and hypoxia-induced transcriptomes in embryonic stem cells. <i>Experimental Cell Research</i> , <b>2010</b> , 316, 1610-24	4.2	26
39	Active targeting of mesoporous silica drug carriers enhances $\beta$ -secretase inhibitor efficacy in an in vivo model for breast cancer. <i>Nanomedicine</i> , <b>2014</b> , 9, 971-87	5.6	25
38	Tailored Approaches in Drug Development and Diagnostics: From Molecular Design to Biological Model Systems. <i>Advanced Healthcare Materials</i> , <b>2017</b> , 6, 1700258	10.1	25
37	Genetically-encoded tools for cAMP probing and modulation in living systems. <i>Frontiers in Pharmacology</i> , <b>2015</b> , 6, 196	5.6	25
36	Nestin Regulates Neurogenesis in Mice Through Notch Signaling From Astrocytes to Neural Stem Cells. <i>Cerebral Cortex</i> , <b>2019</b> , 29, 4050-4066	5.1	25
35	Notch signaling and its integration with other signaling mechanisms. <i>Regenerative Medicine</i> , <b>2006</b> , 1, 195-205	2.5	24
34	The nervous system of Tricladida. I. Neuroanatomy of Procerodes littoralis (Maricola, Procerodidae): an immunocytochemical study. <i>Invertebrate Neuroscience</i> , <b>1995</b> , 1, 113-22	1.2	23
33	Prolonged Dye Release from Mesoporous Silica-Based Imaging Probes Facilitates Long-Term Optical Tracking of Cell Populations In Vivo. <i>Small</i> , <b>2016</b> , 12, 1578-92	11	23
32	Loss of CSL Unlocks a Hypoxic Response and Enhanced Tumor Growth Potential in Breast Cancer Cells. <i>Stem Cell Reports</i> , <b>2016</b> , 6, 643-651	8	22
31	Preparation, characterization, and preliminary biocompatibility evaluation of particulate spin-coated mesoporous silica films. <i>Microporous and Mesoporous Materials</i> , <b>2014</b> , 188, 203-209	5.3	16
30	Protein kinase Czeta regulates Cdk5/p25 signaling during myogenesis. <i>Molecular Biology of the Cell</i> , <b>2010</b> , 21, 1423-34	3.5	16
29	Mapping of the three-dimensional lymphatic microvasculature in bladder tumours using light-sheet microscopy. <i>British Journal of Cancer</i> , <b>2018</b> , 118, 995-999	8.7	15

28	Combination of magnetic field and surface functionalization for reaching synergistic effects in cellular labeling by magnetic core-shell nanospheres. <i>Biomaterials Science</i> , <b>2014</b> , 2, 1750-1760	7.4	14
27	Strategies to assess phosphoprotein phosphatase and protein kinase-mediated regulation of the cytoskeleton. <i>Methods in Enzymology</i> , <b>1998</b> , 298, 542-69	1.7	14
26	Nanoparticles carrying fingolimod and methotrexate enables targeted induction of apoptosis and immobilization of invasive thyroid cancer. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , <b>2020</b> , 148, 1-9	5.7	14
25	Sumoylation of Notch1 represses its target gene expression during cell stress. <i>Cell Death and Differentiation</i> , <b>2018</b> , 25, 600-615	12.7	13
24	Cardiomyocyte progenitor cell mechanoresponse unrevealed: strain avoidance and mechanosome development. <i>Integrative Biology (United Kingdom)</i> , <b>2016</b> , 8, 991-1001	3.7	12
23	Notch signaling promotes a HIF2 $\beta$ -driven hypoxic response in multiple tumor cell types. <i>Oncogene</i> , <b>2018</b> , 37, 6083-6095	9.2	11
22	Notch in mechanotransduction - from molecular mechanosensitivity to tissue mechanostasis. <i>Journal of Cell Science</i> , <b>2020</b> , 133,	5.3	11
21	Decoding the PTM-switchboard of Notch. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2019</b> , 1866, 118507	4.9	10
20	Three-dimensional single-cell imaging for the analysis of RNA and protein expression in intact tumour biopsies. <i>Nature Biomedical Engineering</i> , <b>2020</b> , 4, 875-888	19	9
19	Decoding breast cancer tissue-stroma interactions using species-specific sequencing. <i>Breast Cancer Research</i> , <b>2015</b> , 17, 109	8.3	7
18	Influence of the Assembly State on the Functionality of a Supramolecular Jagged1-Mimicking Peptide Additive. <i>ACS Omega</i> , <b>2019</b> , 4, 8178-8187	3.9	6
17	Targeting Somatostatin Receptors By Functionalized Mesoporous Silica Nanoparticles - Are We Striking Home?. <i>Nanotheranostics</i> , <b>2018</b> , 2, 320-346	5.6	6
16	A Supramolecular Platform for the Introduction of Fc-Fusion Bioactive Proteins on Biomaterial Surfaces. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 2044-2054	4.3	4
15	Novel, fast-processed crystalline and amorphous manganese oxide nanoparticles for stem cell labeling. <i>Inorganic Chemistry Frontiers</i> , <b>2015</b> , 2, 640-648	6.8	4
14	iGIST-A Kinetic Bioassay for Pertussis Toxin Based on Its Effect on Inhibitory GPCR Signaling. <i>ACS Sensors</i> , <b>2020</b> , 5, 3438-3448	9.2	4
13	Cell Volume (3D) Correlative Microscopy Facilitated by Intracellular Fluorescent Nanodiamonds as Multi-Modal Probes. <i>Nanomaterials</i> , <b>2020</b> , 11,	5.4	4
12	From structural resilience to cell specification - Intermediate filaments as regulators of cell fate. <i>FASEB Journal</i> , <b>2021</b> , 35, e21182	0.9	4
11	Spheroid three-dimensional culture enhances Notch signaling in cardiac progenitor cells. <i>MRS Communications</i> , <b>2017</b> , 7, 496-501	2.7	3

10	Computational Characterization of The Dish-In-A-Dish, A High Yield Culture Platform for Endothelial Shear Stress Studies on the Orbital Shaker. <i>Micromachines</i> , <b>2020</b> , 11,	3.3	3
9	Sensitization of MCF7 Cells with High Notch1 Activity by Cisplatin and Histone Deacetylase Inhibitors Applied Together. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
8	Rational evaluation of human serum albumin coated mesoporous silica nanoparticles for xenogenic-free stem cell therapies. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2020</b> , 600, 124945	5.1	1
7	iGIST - a kinetic bioassay for pertussis toxin based on its effect on inhibitory GPCR signaling		1
6	PIM-induced phosphorylation of Notch3 promotes breast cancer tumorigenicity in a CSL-independent fashion. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100593	5.4	1
5	Engineering tissue morphogenesis: taking it up a Notch.. <i>Trends in Biotechnology</i> , <b>2022</b> ,	15.1	1
4	Targetability Validation of Peptide-Functionalized Mesoporous Silica Nanoparticles in the Presence of Serum Proteins. <i>Frontiers in Chemistry</i> , <b>2020</b> , 8, 603616	5	0
3	GIT1 protects against breast cancer growth through negative regulation of Notch.. <i>Nature Communications</i> , <b>2022</b> , 13, 1537	17.4	0
2	In Situ Coupled Electrochemical-Goniometry as a Tool to Reveal Conformational Changes of Charged Peptides. <i>Advanced Materials Interfaces</i> , <b>2022</b> , 9, 2101480	4.6	0
1	Optogenetic control of NOTCH1 signaling.. <i>Cell Communication and Signaling</i> , <b>2022</b> , 20, 67	7.5	0