

# Cecilia Sahlgren

## List of Publications by Year in Descending Order

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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	Engineering tissue morphogenesis: taking it up a Notch.. <i>Trends in Biotechnology</i> , <b>2022</b> ,	15.1	1
80	GIT1 protects against breast cancer growth through negative regulation of Notch.. <i>Nature Communications</i> , <b>2022</b> , 13, 1537	17.4	0
79	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
78	Optogenetic control of NOTCH1 signaling.. <i>Cell Communication and Signaling</i> , <b>2022</b> , 20, 67	7.5	0
77	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
76	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
75	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
74	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
73	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
72	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
71	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
70	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
69	Notch in mechanotransduction - from molecular mechanosensitivity to tissue mechanostasis. <i>Journal of Cell Science</i> , <b>2020</b> , 133,	5.3	11
68	Cell Volume (3D) Correlative Microscopy Facilitated by Intracellular Fluorescent Nanodiamonds as Multi-Modal Probes. <i>Nanomaterials</i> , <b>2020</b> , 11,	5.4	4
67	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
66	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
65	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

64	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
63	Decoding the PTM-switchboard of Notch. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2019</b> , 1866, 118507	4.9	10
62	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
61	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
60	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
59	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
58	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
57	Targeting Somatostatin Receptors By Functionalized Mesoporous Silica Nanoparticles - Are We Striking Home?. <i>Nanotheranostics</i> , <b>2018</b> , 2, 320-346	5.6	6
56	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
55	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
54	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
53	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
52	Spheroid three-dimensional culture enhances Notch signaling in cardiac progenitor cells. <i>MRS Communications</i> , <b>2017</b> , 7, 496-501	2.7	3
51	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
50	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
49	Cardiac Progenitor Cells and the Interplay with Their Microenvironment. <i>Stem Cells International</i> , <b>2017</b> , 2017, 7471582	5	29
48	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
47	Mesoporous silica nanoparticles in tissue engineering--a perspective. <i>Nanomedicine</i> , <b>2016</b> , 11, 391-402	5.6	67

46	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
45	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
44	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
43	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
42	Inhibiting Notch Activity in Breast Cancer Stem Cells by Glucose Functionalized Nanoparticles Carrying $\beta$ secretase Inhibitors. <i>Molecular Therapy</i> , <b>2016</b> , 24, 926-36	11.7	76
41	Cardiomyocyte progenitor cell mechanoresponse unveiled: strain avoidance and mechanosome development. <i>Integrative Biology (United Kingdom)</i> , <b>2016</b> , 8, 991-1001	3.7	12
40	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
39	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
38	Decoding breast cancer tissue-stroma interactions using species-specific sequencing. <i>Breast Cancer Research</i> , <b>2015</b> , 17, 109	8.3	7
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	PKC $\zeta$ 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
35	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
34	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
33	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
32	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
31	Non-canonical Notch signaling activates IL-6/JAK/STAT signaling in breast tumor cells and is controlled by p53 and IKK $\beta$ . <i>Oncogene</i> , <b>2013</b> , 32, 4892-902	9.2	95
30	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
29	Mesoporous silica nanoparticles in medicine--recent advances. <i>Advanced Drug Delivery Reviews</i> , <b>2013</b> , 65, 689-702	18.5	509

28	Astrocytes negatively regulate neurogenesis through the Jagged1-mediated Notch pathway. <i>Stem Cells</i> , <b>2012</b> , 30, 2320-9	5.8	108
27	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
26	Nanoparticles in targeted cancer therapy: mesoporous silica nanoparticles entering preclinical development stage. <i>Nanomedicine</i> , <b>2012</b> , 7, 111-20	5.6	205
25	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
24	Nestin as a regulator of Cdk5 in differentiating myoblasts. <i>Molecular Biology of the Cell</i> , <b>2011</b> , 22, 1539-49	5	38
23	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
22	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
21	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
20	Towards multifunctional, targeted drug delivery systems using mesoporous silica nanoparticles--opportunities & challenges. <i>Nanoscale</i> , <b>2010</b> , 2, 1870-83	7.7	442
19	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
18	Cancer-cell targeting and cell-specific delivery by mesoporous silica nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 2707		86
17	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
16	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
15	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
14	Targeting of porous hybrid silica nanoparticles to cancer cells. <i>ACS Nano</i> , <b>2009</b> , 3, 197-206	16.7	438
13	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
12	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
11	High levels of Notch signaling down-regulate Numb and Numbl like. <i>Journal of Cell Biology</i> , <b>2006</b> , 175, 535-40	7.3	71

10	Notch signaling and its integration with other signaling mechanisms. <i>Regenerative Medicine</i> , <b>2006</b> , 1, 195-205	2.5	24
9	A nestin scaffold links Cdk5/p35 signaling to oxidant-induced cell death. <i>EMBO Journal</i> , <b>2006</b> , 25, 4808-19	3	132
8	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
7	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
6	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
5	Intermediate filament protein partnership in astrocytes. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 23996-4006	5.4	86
4	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
3	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
2	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
1	iGIST - a kinetic bioassay for pertussis toxin based on its effect on inhibitory GPCR signaling		1