

# Cecilia Sahlgren

## List of Publications by Year in descending order

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80  
papers

6,798  
citations

87888

38  
h-index

62596

80  
g-index

83  
all docs

83  
docs citations

83  
times ranked

10517  
citing authors

#	ARTICLE	IF	CITATIONS
1	Notch signaling mediates hypoxia-induced tumor cell migration and invasion. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6392-6397.	7.1	726
2	Mesoporous silica nanoparticles in medicine—Recent advances. Advanced Drug Delivery Reviews, 2013, 65, 689-702.	13.7	585
3	Towards multifunctional, targeted drug delivery systems using mesoporous silica nanoparticles — opportunities & challenges. Nanoscale, 2010, 2, 1870.	5.6	504
4	Targeting of Porous Hybrid Silica Nanoparticles to Cancer Cells. ACS Nano, 2009, 3, 197-206.	14.6	477
5	Intermediate Filament Protein Partnership in Astrocytes. Journal of Biological Chemistry, 1999, 274, 23996-24006.	3.4	313
6	Nanoparticles in targeted cancer therapy: mesoporous silica nanoparticles entering preclinical development stage. Nanomedicine, 2012, 7, 111-120.	3.3	233
7	Targeted Intracellular Delivery of Hydrophobic Agents using Mesoporous Hybrid Silica Nanoparticles as Carrier Systems. Nano Letters, 2009, 9, 3308-3311.	9.1	209
8	Mesoporous Silica Nanoparticles as Drug Delivery Systems for Targeted Inhibition of Notch Signaling in Cancer. Molecular Therapy, 2011, 19, 1538-1546.	8.2	197
9	Cancer—Cell—Specific Induction of Apoptosis Using Mesoporous Silica Nanoparticles as Drug—Delivery Vectors. Small, 2010, 6, 1234-1241.	10.0	163
10	Notch Signaling Regulates Platelet-Derived Growth Factor Receptor- $\beta$ Expression in Vascular Smooth Muscle Cells. Circulation Research, 2008, 102, 1483-1491.	4.5	161
11	Multifunctional Mesoporous Silica Nanoparticles for Combined Therapeutic, Diagnostic and Targeted Action in Cancer Treatment. Current Drug Targets, 2011, 12, 1166-1186.	2.1	156
12	A nestin scaffold links Cdk5/p35 signaling to oxidant-induced cell death. EMBO Journal, 2006, 25, 4808-4819.	7.8	150
13	The Expression of Intermediate Filament protein Nestin as Related to Vimentin and Desmin in Regenerating Skeletal Muscle. Journal of Neuropathology and Experimental Neurology, 2001, 60, 588-597.	1.7	144
14	Cdk5 Regulates the Organization of Nestin and Its Association with p35. Molecular and Cellular Biology, 2003, 23, 5090-5106.	2.3	131
15	Whole-tissue biopsy phenotyping of three-dimensional tumours reveals patterns of cancer heterogeneity. Nature Biomedical Engineering, 2017, 1, 796-806.	22.5	131
16	Astrocytes Negatively Regulate Neurogenesis Through the Jagged1—Mediated Notch Pathway. Stem Cells, 2012, 30, 2320-2329.	3.2	123
17	Non-canonical Notch signaling activates IL-6/JAK/STAT signaling in breast tumor cells and is controlled by p53 and IKK $\alpha$ /IKK $\beta$ . Oncogene, 2013, 32, 4892-4902.	5.9	121
18	Hypo- and hyperactivated Notch signaling induce a glycolytic switch through distinct mechanisms. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18814-18819.	7.1	112

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19	Core-shell designs of photoluminescent nanodiamonds with porous silica coatings for bioimaging and drug delivery II: application. <i>Nanoscale</i> , 2013, 5, 3713.	5.6	111
20	Mitotic Reorganization of the Intermediate Filament Protein Nestin Involves Phosphorylation by cdc2 Kinase. <i>Journal of Biological Chemistry</i> , 2001, 276, 16456-16463.	3.4	105
21	Inhibiting Notch Activity in Breast Cancer Stem Cells by Glucose Functionalized Nanoparticles Carrying I <sup>3</sup> -secretase Inhibitors. <i>Molecular Therapy</i> , 2016, 24, 926-936.	8.2	91
22	Cancer-cell targeting and cell-specific delivery by mesoporous silica nanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 2707.	6.7	89
23	A biomimetic microfluidic model to study signalling between endothelial and vascular smooth muscle cells under hemodynamic conditions. <i>Lab on A Chip</i> , 2018, 18, 1607-1620.	6.0	88
24	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> , 1999, 154, 591-600.	3.8	87
25	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> , 2017, 114, E4574-E4581.	7.1	86
26	Mesoporous silica nanoparticles in tissue engineering – a perspective. <i>Nanomedicine</i> , 2016, 11, 391-402.	3.3	83
27	High levels of Notch signaling down-regulate Numb and Numblake. <i>Journal of Cell Biology</i> , 2006, 175, 535-540.	5.2	76
28	Feasibility Study of the Permeability and Uptake of Mesoporous Silica Nanoparticles across the Blood-Brain Barrier. <i>PLoS ONE</i> , 2016, 11, e0160705.	2.5	74
29	Vimentin regulates Notch signaling strength and arterial remodeling in response to hemodynamic stress. <i>Scientific Reports</i> , 2019, 9, 12415.	3.3	62
30	Shape engineering vs organic modification of inorganic nanoparticles as a tool for enhancing cellular internalization. <i>Nanoscale Research Letters</i> , 2012, 7, 358.	5.7	61
31	Notch induces cyclin-D1-dependent proliferation during a specific temporal window of neural differentiation in ES cells. <i>Developmental Biology</i> , 2010, 348, 153-166.	2.0	57
32	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> , 2018, 115, E3682-E3691.	7.1	51
33	Phosphorylation of Notch1 by Pim kinases promotes oncogenic signaling in breast and prostate cancer cells. <i>Oncotarget</i> , 2016, 7, 43220-43238.	1.8	49
34	Nestin Regulates Neurogenesis in Mice Through Notch Signaling From Astrocytes to Neural Stem Cells. <i>Cerebral Cortex</i> , 2019, 29, 4050-4066.	2.9	46
35	Analyses in zebrafish embryos reveal that nanotoxicity profiles are dependent on surface-functionalization controlled penetrance of biological membranes. <i>Scientific Reports</i> , 2017, 7, 8423.	3.3	44
36	Keratins regulate colonic epithelial cell differentiation through the Notch1 signalling pathway. <i>Cell Death and Differentiation</i> , 2017, 24, 984-996.	11.2	43

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37	Nestin as a regulator of Cdk5 in differentiating myoblasts. <i>Molecular Biology of the Cell</i> , 2011, 22, 1539-1549.	2.1	42
38	Mesoporous silica nanoparticle-based substrates for cell directed delivery of Notch signalling modulators to control myoblast differentiation. <i>Nanoscale</i> , 2014, 6, 1490-1498.	5.6	41
39	Cardiac Progenitor Cells and the Interplay with Their Microenvironment. <i>Stem Cells International</i> , 2017, 2017, 1-20.	2.5	39
40	Tailored Approaches in Drug Development and Diagnostics: From Molecular Design to Biological Model Systems. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700258.	7.6	38
41	PKC $\zeta$ regulates Notch receptor routing and activity in a Notch signaling-dependent manner. <i>Cell Research</i> , 2014, 24, 433-450.	12.0	37
42	Mesoporous silica particle-PLA $\alpha$ -PANI hybrid scaffolds for cell-directed intracellular drug delivery and tissue vascularization. <i>Nanoscale</i> , 2015, 7, 14434-14443.	5.6	37
43	Notch in mechanotransduction $\alpha$ from molecular mechanosensitivity to tissue mechanostasis. <i>Journal of Cell Science</i> , 2020, 133, .	2.0	37
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> , 2016, 11, 299.	6.7	31
45	Loss of CSL Unlocks a Hypoxic Response and Enhanced Tumor Growth Potential in Breast Cancer Cells. <i>Stem Cell Reports</i> , 2016, 6, 643-651.	4.8	31
46	Interactions between Notch- and hypoxia-induced transcriptomes in embryonic stem cells. <i>Experimental Cell Research</i> , 2010, 316, 1610-1624.	2.6	30
47	Active targeting of mesoporous silica drug carriers enhances $\beta$ -secretase inhibitor efficacy in an <i>in vivo</i> model for breast cancer. <i>Nanomedicine</i> , 2014, 9, 971-987.	3.3	30
48	Nanoparticles carrying fingolimod and methotrexate enables targeted induction of apoptosis and immobilization of invasive thyroid cancer. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2020, 148, 1-9.	4.3	28
49	The nervous system of Tricladida. I. Neuroanatomy of <i>Procerodes littoralis</i> (Maricola, Procerodidae): An immunocytochemical study. <i>Invertebrate Neuroscience</i> , 1995, 1, 113-122.	1.8	27
50	Prolonged Dye Release from Mesoporous Silica-Based Imaging Probes Facilitates Long-Term Optical Tracking of Cell Populations In Vivo. <i>Small</i> , 2016, 12, 1578-1592.	10.0	26
51	Notch signaling and its integration with other signaling mechanisms. <i>Regenerative Medicine</i> , 2006, 1, 195-205.	1.7	25
52	Genetically-encoded tools for cAMP probing and modulation in living systems. <i>Frontiers in Pharmacology</i> , 2015, 6, 196.	3.5	25
53	Decoding the PTM-switchboard of Notch. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2019, 1866, 118507.	4.1	25
54	Mapping of the three-dimensional lymphatic microvasculature in bladder tumours using light-sheet microscopy. <i>British Journal of Cancer</i> , 2018, 118, 995-999.	6.4	24

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55	Cardiomyocyte progenitor cell mechanoresponse unveiled: strain avoidance and mechanosome development. Integrative Biology (United Kingdom), 2016, 8, 991-1001.	1.3	21
56	Three-dimensional single-cell imaging for the analysis of RNA and protein expression in intact tumour biopsies. Nature Biomedical Engineering, 2020, 4, 875-888.	22.5	21
57	Sumoylation of Notch1 represses its target gene expression during cell stress. Cell Death and Differentiation, 2018, 25, 600-615.	11.2	20
58	Notch signaling promotes a HIF2 $\alpha$ -driven hypoxic response in multiple tumor cell types. Oncogene, 2018, 37, 6083-6095.	5.9	20
59	Preparation, characterization, and preliminary biocompatibility evaluation of particulate spin-coated mesoporous silica films. Microporous and Mesoporous Materials, 2014, 188, 203-209.	4.4	18
60	Protein Kinase C $\eta$ Regulates Cdk5/p25 Signaling during Myogenesis. Molecular Biology of the Cell, 2010, 21, 1423-1434.	2.1	17
61	[42] Strategies to assess phosphoprotein phosphatase and protein kinase-mediated regulation of the cytoskeleton. Methods in Enzymology, 1998, 298, 542-569.	1.0	14
62	Combination of magnetic field and surface functionalization for reaching synergistic effects in cellular labeling by magnetic core-shell nanospheres. Biomaterials Science, 2014, 2, 1750-1760.	5.4	14
63	Computational Characterization of the Dish-In-A-Dish, A High Yield Culture Platform for Endothelial Shear Stress Studies on the Orbital Shaker. Micromachines, 2020, 11, 552.	2.9	13
64	iGIST-A Kinetic Bioassay for Pertussis Toxin Based on Its Effect on Inhibitory GPCR Signaling. ACS Sensors, 2020, 5, 3438-3448.	7.8	12
65	Decoding breast cancer tissue-stroma interactions using species-specific sequencing. Breast Cancer Research, 2015, 17, 109.	5.0	11
66	A Supramolecular Platform for the Introduction of Fc-Fusion Bioactive Proteins on Biomaterial Surfaces. ACS Applied Polymer Materials, 2019, 1, 2044-2054.	4.4	10
67	Influence of the Assembly State on the Functionality of a Supramolecular Jagged1-Mimicking Peptide Additive. ACS Omega, 2019, 4, 8178-8187.	3.5	9
68	PIM-induced phosphorylation of Notch3 promotes breast cancer tumorigenicity in a CSL-independent fashion. Journal of Biological Chemistry, 2021, 296, 100593.	3.4	9
69	Cell Volume (3D) Correlative Microscopy Facilitated by Intracellular Fluorescent Nanodiamonds as Multi-Modal Probes. Nanomaterials, 2021, 11, 14.	4.1	9
70	Targeting Somatostatin Receptors By Functionalized Mesoporous Silica Nanoparticles - Are We Striking Home?. Nanotheranostics, 2018, 2, 320-346.	5.2	8
71	From structural resilience to cell specification - Intermediate filaments as regulators of cell fate. FASEB Journal, 2021, 35, e21182.	0.5	8
72	Engineering tissue morphogenesis: taking it up a Notch. Trends in Biotechnology, 2022, 40, 945-957.	9.3	7

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73	Novel, fast-processed crystalline and amorphous manganese oxide nanoparticles for stem cell labeling. <i>Inorganic Chemistry Frontiers</i> , 2015, 2, 640-648.	6.0	6
74	Spheroid three-dimensional culture enhances Notch signaling in cardiac progenitor cells. <i>MRS Communications</i> , 2017, 7, 496-501.	1.8	6
75	In Situ Coupled Electrochemical Goniometry as a Tool to Reveal Conformational Changes of Charged Peptides. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	6
76	Optogenetic control of NOTCH1 signaling. <i>Cell Communication and Signaling</i> , 2022, 20, 67.	6.5	6
77	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> , 2020, 600, 124945.	4.7	5
78	Sensitization of MCF7 Cells with High Notch1 Activity by Cisplatin and Histone Deacetylase Inhibitors Applied Together. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5184.	4.1	5
79	GIT1 protects against breast cancer growth through negative regulation of Notch. <i>Nature Communications</i> , 2022, 13, 1537.	12.8	5
80	In vitro Targetability Validation of Peptide-Functionalized Mesoporous Silica Nanoparticles in the Presence of Serum Proteins. <i>Frontiers in Chemistry</i> , 2020, 8, 603616.	3.6	2