

# Sven Diederichs

## List of Publications by Year in descending order

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110  
papers

17,666  
citations

41344  
49  
h-index

25787  
108  
g-index

116  
all docs

116  
docs citations

116  
times ranked

24799  
citing authors

#	ARTICLE	IF	CITATIONS
1	Many roads to maturity: microRNA biogenesis pathways and their regulation. <i>Nature Cell Biology</i> , 2009, 11, 228-234.	10.3	2,328
2	MALAT-1, a novel noncoding RNA, and thymosin Î²4 predict metastasis and survival in early-stage non-small cell lung cancer. <i>Oncogene</i> , 2003, 22, 8031-8041.	5.9	1,986
3	The hallmarks of cancer. <i>RNA Biology</i> , 2012, 9, 703-719.	3.1	1,627
4	Detection of Mutations in <i>EGFR</i> in Circulating Lung-Cancer Cells. <i>New England Journal of Medicine</i> , 2008, 359, 366-377.	27.0	1,602
5	The Noncoding RNA <i>MALAT1</i> Is a Critical Regulator of the Metastasis Phenotype of Lung Cancer Cells. <i>Cancer Research</i> , 2013, 73, 1180-1189.	0.9	1,413
6	MALAT1 â€” a paradigm for long noncoding RNA function in cancer. <i>Journal of Molecular Medicine</i> , 2013, 91, 791-801.	3.9	624
7	Dual Role for Argonautes in MicroRNA Processing and Posttranscriptional Regulation of MicroRNA Expression. <i>Cell</i> , 2007, 131, 1097-1108.	28.9	573
8	Long noncoding RNA HOTTIP/HOXA13 expression is associated with disease progression and predicts outcome in hepatocellular carcinoma patients. <i>Hepatology</i> , 2014, 59, 911-923.	7.3	382
9	Loss of the abundant nuclear non-coding RNA <i>MALAT1</i> is compatible with life and development. <i>RNA Biology</i> , 2012, 9, 1076-1087.	3.1	355
10	Non-coding RNA in hepatocellular carcinoma: Mechanisms, biomarkers and therapeutic targets. <i>Journal of Hepatology</i> , 2017, 67, 603-618.	3.7	292
11	The four dimensions of noncoding RNA conservation. <i>Trends in Genetics</i> , 2014, 30, 121-123.	6.7	284
12	Translocation Products in Acute Myeloid Leukemia Activate the Wnt Signaling Pathway in Hematopoietic Cells. <i>Molecular and Cellular Biology</i> , 2004, 24, 2890-2904.	2.3	280
13	Epigenetically Deregulated microRNA-375 Is Involved in a Positive Feedback Loop with Estrogen Receptor Î± in Breast Cancer Cells. <i>Cancer Research</i> , 2010, 70, 9175-9184.	0.9	260
14	From junk to master regulators of invasion: lncRNA functions in migration, EMT and metastasis. <i>International Journal of Cancer</i> , 2016, 139, 269-280.	5.1	236
15	Tumor-derived exosomes modulate PD-L1 expression in monocytes. <i>Science Immunology</i> , 2017, 2, .	11.9	236
16	The dark matter of the cancer genome: aberrations in regulatory elements, untranslated regions, splice sites, non-coding RNA and synonymous mutations. <i>EMBO Molecular Medicine</i> , 2016, 8, 442-457.	6.9	209
17	Posttranscriptional destabilization of the liver-specific long noncoding RNA <i>HULC</i> by the IGF2 mRNA-binding protein 1 (IGF2BP1). <i>Hepatology</i> , 2013, 58, 1703-1712.	7.3	208
18	Argonaute proteins regulate microRNA stability: Increased microRNA abundance by Argonaute proteins is due to microRNA stabilization. <i>RNA Biology</i> , 2011, 8, 1149-1157.	3.1	183

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19	Sequence Variations of MicroRNAs in Human Cancer: Alterations in Predicted Secondary Structure Do Not Affect Processing. <i>Cancer Research</i> , 2006, 66, 6097-6104.	0.9	173
20	Tumor Suppressive MicroRNAs miR-34a/c Control Cancer Cell Expression of ULBP2, a Stress-Induced Ligand of the Natural Killer Cell Receptor NKG2D. <i>Cancer Research</i> , 2012, 72, 460-471.	0.9	172
21	S100 Family Members and Trypsinogens Are Predictors of Distant Metastasis and Survival in Early-Stage Non-Small Cell Lung Cancer. <i>Cancer Research</i> , 2004, 64, 5564-5569.	0.9	169
22	Insulin-like growth factor 2 mRNA-binding protein 1 (IGF2BP1) is an important protumorigenic factor in hepatocellular carcinoma. <i>Hepatology</i> , 2014, 59, 1900-1911.	7.3	155
23	Functionally defective germline variants of sialic acid acetyltransferase in autoimmunity. <i>Nature</i> , 2010, 466, 243-247.	27.8	150
24	A pan-cancer analysis of synonymous mutations. <i>Nature Communications</i> , 2019, 10, 2569.	12.8	147
25	Noncoding RNA gene silencing through genomic integration of RNA destabilizing elements using zinc finger nucleases. <i>Genome Research</i> , 2011, 21, 1944-1954.	5.5	142
26	Epigenetic inactivation of the p53-induced long noncoding RNA TP53 target 1 in human cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E7535-E7544.	7.1	140
27	Challenges of CRISPR/Cas9 applications for long non-coding RNA genes. <i>Nucleic Acids Research</i> , 2017, 45, gkw883.	14.5	138
28	The <i>IGF2</i> intronic miR-483 selectively enhances transcription from <i>IGF2</i> fetal promoters and enhances tumorigenesis. <i>Genes and Development</i> , 2013, 27, 2543-2548.	5.9	135
29	miR-137 Inhibits the Invasion of Melanoma Cells through Downregulation of Multiple Oncogenic Target Genes. <i>Journal of Investigative Dermatology</i> , 2013, 133, 768-775.	0.7	126
30	Identification of Metastasis-Associated Receptor Tyrosine Kinases in Non-Small Cell Lung Cancer. <i>Cancer Research</i> , 2005, 65, 1778-1782.	0.9	124
31	The cancer-associated microprotein CASIMO1 controls cell proliferation and interacts with squalene epoxidase modulating lipid droplet formation. <i>Oncogene</i> , 2018, 37, 4750-4768.	5.9	111
32	The Long Noncoding RNA Cancer Susceptibility 9 and RNA Binding Protein Heterogeneous Nuclear Ribonucleoprotein L Form a Complex and Coregulate Genes Linked to AKT Signaling. <i>Hepatology</i> , 2018, 68, 1817-1832.	7.3	110
33	MicroRNA Biogenesis and Cancer. <i>Methods in Molecular Biology</i> , 2011, 676, 3-22.	0.9	109
34	The Cyclin A1-CDK2 Complex Regulates DNA Double-Strand Break Repair. <i>Molecular and Cellular Biology</i> , 2004, 24, 8917-8928.	2.3	106
35	The lncRNA lincNMR regulates nucleotide metabolism via a YBX1 - RRM2 axis in cancer. <i>Nature Communications</i> , 2020, 11, 3214.	12.8	96
36	Coexpression of Argonaute-2 enhances RNA interference toward perfect match binding sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 9284-9289.	7.1	91

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37	Genome-wide methylation screen in low-grade breast cancer identifies novel epigenetically altered genes as potential biomarkers for tumor diagnosis. <i>FASEB Journal</i> , 2012, 26, 4937-4950.	0.5	84
38	The lncRNA VELUCT strongly regulates viability of lung cancer cells despite its extremely low abundance. <i>Nucleic Acids Research</i> , 2017, 45, 5458-5469.	14.5	84
39	Cyclin A1, the alternative A-type cyclin, contributes to G1/S cell cycle progression in somatic cells. <i>Oncogene</i> , 2005, 24, 2739-2744.	5.9	82
40	LIMIT is a novel metastasis inhibiting lncRNA suppressed by EGF and downregulated in aggressive breast cancer. <i>EMBO Molecular Medicine</i> , 2016, 8, 1052-1064.	6.9	77
41	R-DeeP: Proteome-wide and Quantitative Identification of RNA-Dependent Proteins by Density Gradient Ultracentrifugation. <i>Molecular Cell</i> , 2019, 75, 184-199.e10.	9.7	77
42	Invasion front-specific expression and prognostic significance of microRNA in colorectal liver metastases. <i>Cancer Science</i> , 2011, 102, 1799-1807.	3.9	74
43	Methylation of the Cyclin A1 Promoter Correlates with Gene Silencing in Somatic Cell Lines, while Tissue-Specific Expression of Cyclin A1 Is Methylation Independent. <i>Molecular and Cellular Biology</i> , 2000, 20, 3316-3329.	2.3	73
44	A cautionary tale of sense-antisense gene pairs: independent regulation despite inverse correlation of expression. <i>Nucleic Acids Research</i> , 2017, 45, 12496-12508.	14.5	63
45	Designer epigenome modifiers enable robust and sustained gene silencing in clinically relevant human cells. <i>Nucleic Acids Research</i> , 2018, 46, 4456-4468.	14.5	63
46	MIR100 host gene-encoded lncRNAs regulate cell cycle by modulating the interaction between HuR and its target mRNAs. <i>Nucleic Acids Research</i> , 2018, 46, 10405-10416.	14.5	61
47	Identification of Interaction Partners and Substrates of the Cyclin A1-CDK2 Complex. <i>Journal of Biological Chemistry</i> , 2004, 279, 33727-33741.	3.4	59
48	Detection of Functionally Active Melanocortin Receptors and Evidence for an Immunoregulatory Activity of $\alpha$ -Melanocyte-Stimulating Hormone in Human Dermal Papilla Cells. <i>Endocrinology</i> , 2005, 146, 4635-4646.	2.8	59
49	Cyclin A1 directly interacts with B-myb and cyclin A1/cdk2 phosphorylate B-myb at functionally important serine and threonine residues: tissue-specific regulation of B-myb function. <i>Blood</i> , 2001, 97, 2091-2097.	1.4	55
50	The long non-coding RNA LINC00152 is essential for cell cycle progression through mitosis in HeLa cells. <i>Scientific Reports</i> , 2017, 7, 2265.	3.3	51
51	Loop-miRs: active microRNAs generated from single-stranded loop regions. <i>Nucleic Acids Research</i> , 2013, 41, 5503-5512.	14.5	48
52	c-myb Transactivates the Human Cyclin A1 Promoter and Induces Cyclin A1 Gene Expression. <i>Blood</i> , 1999, 94, 4255-4262.	1.4	47
53	Alternative splicing affects the subcellular localization of Drosha. <i>Nucleic Acids Research</i> , 2016, 44, 5330-5343.	14.5	45
54	microRNA-379 couples glucocorticoid hormones to dysfunctional lipid homeostasis. <i>EMBO Journal</i> , 2015, 34, 344-360.	7.8	43

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55	A Rap GTPase interactor, RADIL, mediates migration of neural crest precursors. <i>Genes and Development</i> , 2007, 21, 2131-2136.	5.9	41
56	RBP2GO: a comprehensive pan-species database on RNA-binding proteins, their interactions and functions. <i>Nucleic Acids Research</i> , 2021, 49, D425-D436.	14.5	41
57	Evaluation of fluorescence in situ hybridization techniques to study long non-coding RNA expression in cultured cells. <i>Nucleic Acids Research</i> , 2018, 46, e4-e4.	14.5	40
58	Long Noncoding RNAs in Lung Cancer. <i>Current Topics in Microbiology and Immunology</i> , 2015, 394, 57-110.	1.1	39
59	Cyclin A1 is highly expressed in aggressive testicular germ cell tumors. <i>Cancer Letters</i> , 2003, 190, 89-95.	7.2	38
60	A high-throughput screen identifies the long non-coding RNA DRAIC as a regulator of autophagy. <i>Oncogene</i> , 2019, 38, 5127-5141.	5.9	37
61	Genome-wide screening for prognosis-predicting genes in early-stage non-small-cell lung cancer. <i>Lung Cancer</i> , 2004, 45, S145-S150.	2.0	35
62	Argonaute-3 activates the let-7a passenger strand microRNA. <i>RNA Biology</i> , 2013, 10, 1631-1643.	3.1	33
63	Adjuvant Therapy with Small Hairpin RNA Interference Prevents Non-Small Cell Lung Cancer Metastasis Development in Mice. <i>Cancer Research</i> , 2008, 68, 1896-1904.	0.9	32
64	A novel long non-coding RNA from NBL2 pericentromeric macrosatellite forms a perinucleolar aggregate structure in colon cancer. <i>Nucleic Acids Research</i> , 2018, 46, 5504-5524.	14.5	30
65	A systemic transcriptome analysis reveals the regulation of neural stem cell maintenance by an E2F1-miRNA feedback loop. <i>Nucleic Acids Research</i> , 2013, 41, 3699-3712.	14.5	27
66	Targeting <i>LINC00673</i> expression triggers cellular senescence in lung cancer. <i>RNA Biology</i> , 2018, 15, 1499-1511.	3.1	27
67	Rare Drosha Splice Variants Are Deficient in MicroRNA Processing but Do Not Affect General MicroRNA Expression in Cancer Cells. <i>Neoplasia</i> , 2012, 14, 238-246.	5.3	26
68	RNA-binding proteins regulate the expression of the immune activating ligand MICB. <i>Nature Communications</i> , 2014, 5, 4186.	12.8	25
69	RNA motifs and combinatorial prediction of interactions, stability and localization of noncoding RNAs. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 1070-1076.	8.2	25
70	Self-Assembly Is Important for TIP47 Function in Mannose 6-Phosphate Receptor Transport. <i>Traffic</i> , 2003, 4, 18-25.	2.7	24
71	The expression of a viral microRNA is regulated by clustering to allow optimal B cell transformation. <i>Nucleic Acids Research</i> , 2016, 44, 1326-1341.	14.5	24
72	The Circular RNA Landscape of Non-Small Cell Lung Cancer Cells. <i>Cancers</i> , 2020, 12, 1091.	3.7	24

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73	Cyclin A1 and gametogenesis in fertile and infertile patients: a potential new molecular diagnostic marker. Human Reproduction, 2002, 17, 2338-2343.	0.9	23
74	Long Noncoding RNA: "LNCs" to Cancer. European Urology, 2014, 65, 1152-1153.	1.9	22
75	The Clinically Used Iron Chelator Deferasirox Is an Inhibitor of Epigenetic JumonjiC Domain-Containing Histone Demethylases. ACS Chemical Biology, 2019, 14, 1737-1750.	3.4	22
76	Expression patterns of mitotic and meiotic cell cycle regulators in testicular cancer and development. International Journal of Cancer, 2005, 116, 207-217.	5.1	21
77	The S-phase-induced lncRNA SUNO1 promotes cell proliferation by controlling YAP1/Hippo signaling pathway. ELife, 2020, 9, .	6.0	21
78	Analyses of the genomic methylation status of the human cyclin A1 promoter by a novel real-time PCR-based methodology. FEBS Letters, 2001, 490, 75-78.	2.8	18
79	Pulmonary metastasectomy for thyroid cancer as salvage therapy for radioactive iodine-refractory metastases. European Journal of Cardio-thoracic Surgery, 2018, 53, 625-630.	1.4	18
80	LINC00261 and the Adjacent Gene FOXA2 Are Epithelial Markers and Are Suppressed during Lung Cancer Tumorigenesis and Progression. Non-coding RNA, 2019, 5, 2.	2.6	18
81	Inhibitor of Cyclin-dependent Kinase (CDK) Interacting with Cyclin A1 (INCA1) Regulates Proliferation and Is Repressed by Oncogenic Signaling. Journal of Biological Chemistry, 2011, 286, 28210-28222.	3.4	17
82	Rap and chirp about X inactivation. Nature, 2015, 521, 170-171.	27.8	17
83	Mitochondrial mutations in human cancer: Curation of translation. RNA Biology, 2018, 15, 62-69.	3.1	17
84	Identification of a heat-inducible novel nuclear body containing the long noncoding RNA <i>MALAT1</i> . Journal of Cell Science, 2021, 134, .	2.0	17
85	A Functional Yeast Survival Screen of Tumor-Derived cDNA Libraries Designed to Identify Anti-Apoptotic Mammalian Oncogenes. PLoS ONE, 2013, 8, e64873.	2.5	17
86	Generation of murine tumor cell lines deficient in MHC molecule surface expression using the CRISPR/Cas9 system. PLoS ONE, 2017, 12, e0174077.	2.5	16
87	Identification, quantification and bioinformatic analysis of RNA-dependent proteins by RNase treatment and density gradient ultracentrifugation using R-DeeP. Nature Protocols, 2020, 15, 1338-1370.	12.0	16
88	Enhanced AC133-specific CAR T cell therapy induces durable remissions in mice with metastatic small cell lung cancer. Cancer Letters, 2022, 538, 215697.	7.2	16
89	The HHIP-AS1 lncRNA promotes tumorigenicity through stabilization of dynein complex 1 in human SHH-driven tumors. Nature Communications, 2022, 13, .	12.8	16
90	MutaRNA: analysis and visualization of mutation-induced changes in RNA structure. Nucleic Acids Research, 2020, 48, W287-W291.	14.5	15

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91	DNA damage response involves modulation of Ku70 and Rb functions by cyclin A1 in leukemia cells. International Journal of Cancer, 2007, 121, 706-713.	5.1	13
92	Mitotic Diversity in Homeostatic Human Interfollicular Epidermis. International Journal of Molecular Sciences, 2016, 17, 167.	4.1	13
93	Loss of expression of HDAC-recruiting methyl-CpG-binding domain proteins in human cancer. British Journal of Cancer, 2001, 85, 1168-1174.	6.4	12
94	circ2GO: A Database Linking Circular RNAs to Gene Function. Cancers, 2020, 12, 2975.	3.7	12
95	A pan-cancer analysis reveals nonstop extension mutations causing SMAD4 tumour suppressor degradation. Nature Cell Biology, 2020, 22, 999-1010.	10.3	12
96	Non-coding RNA and disease. RNA Biology, 2012, 9, 701-702.	3.1	10
97	Analysis of the genetic interactions between Cyclin A1, Atm and p53 during spermatogenesis. Asian Journal of Andrology, 2007, 9, 739-750.	1.6	9
98	Systematic analysis of migration factors by MigExpress identifies essential cell migration control genes in non-small cell lung cancer. Molecular Oncology, 2021, 15, 1797-1817.	4.6	9
99	t RNA s: new tricks from old dogs. EMBO Journal, 2014, 33, 1981-1983.	7.8	7
100	Micro-terminator: 'Hasta la vista, lncRNA!'. Nature Structural and Molecular Biology, 2015, 22, 279-281.	8.2	7
101	MicroRNA Northern Blotting, Precursor Cloning, and Ago2-Improved RNA Interference. Methods in Molecular Biology, 2011, 676, 85-100.	0.9	6
102	Successive increases in human cyclin A1 promoter activity during spermatogenesis in transgenic mice. International Journal of Molecular Medicine, 2003, 11, 311-5.	4.0	6
103	c-myb Transactivates the Human Cyclin A1 Promoter and Induces Cyclin A1 Gene Expression. Blood, 1999, 94, 4255-4262.	1.4	5
104	Increased Level of Long Non-Coding RNA MALAT1 Is a Common Feature of Amoeboid Invasion. Cancers, 2020, 12, 1136.	3.7	4
105	Insights from the degradation mechanism of cyclin D into targeted therapy of the cancer cell cycle. Signal Transduction and Targeted Therapy, 2021, 6, 311.	17.1	3
106	Long Noncoding RNA Function and Expression in Cancer. , 2012, , 197-226.		2
107	Chimeric oligonucleotides combining guide RNA and single-stranded DNA repair template effectively induce precision gene editing. RNA Biology, 2022, 19, 588-593.	3.1	2
108	Successive increases in human cyclin A1 promoter activity during spermatogenesis in transgenic mice. International Journal of Molecular Medicine, 2003, 11, 311.	4.0	1

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109	microRNA Biogenesis and its Impact on RNA Interference. , 2010, , 325-354.		1
110	The Cyclin Interactor p26INCA1 Regulates the Hematopoietic Stem Cell Pool Via CDK Inhibition.. Blood, 2007, 110, 637-637.	1.4	0