Ola Larsson

List of Publications by Year
in descending order

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121 papers	11,138 citations	34105 52 h-index	31849 101 g-index
134 all docs	134 docs citations	134 times ranked	18205 citing authors

#	Article	IF	Citations
1	mTORC1 Controls Mitochondrial Activity and Biogenesis through 4E-BP-Dependent Translational Regulation. Cell Metabolism, 2013, 18, 698-711.	16.2	647
2	Myogenic gene expression signature establishes that brown and white adipocytes originate from distinct cell lineages. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 4401-4406.	7.1	637
3	mTORC1-Mediated Cell Proliferation, But Not Cell Growth, Controlled by the 4E-BPs. Science, 2010, 328, 1172-1176.	12.6	624
4	eIF4E phosphorylation promotes tumorigenesis and is associated with prostate cancer progression. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14134-14139.	7.1	447
5	Fibrotic extracellular matrix activates a profibrotic positive feedback loop. Journal of Clinical Investigation, 2014, 124, 1622-1635.	8.2	444
6	mTOR coordinates protein synthesis, mitochondrial activity and proliferation. Cell Cycle, 2015, 14, 473-480.	2.6	397
7	Bactericidal antisense effects of peptideâ€“PNA conjugates. Nature Biotechnology, 2001, 19, 360-364.	17.5	360
8	Hypoxia-Independent Angiogenesis in Adipose Tissues during Cold Acclimation. Cell Metabolism, 2009, 9, 99-109.	16.2	317
9	Translational control of the innate immune response through IRF-7. Nature, 2008, 452, 323-328.	27.8	275
10	mTOR Controls Mitochondrial Dynamics and Cell Survival via MTFP1. Molecular Cell, 2017, 67, 922-935.e5.	9.7	249
11	Pericyteâ€“fibroblast transition promotes tumor growth and metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5618-27.	7.1	246
12	A stringent validation of mouse adipose tissue identity markers. American Journal of Physiology - Endocrinology and Metabolism, 2015, 308, E1085-E1105.	3.5	242
13	Conserved GU-Rich Elements Mediate mRNA Decay by Binding to CUG-Binding Protein 1. Molecular Cell, 2008, 29, 263-270.	9.7	216
14	SUMOylation Mediates the Nuclear Translocation and Signaling of the IGF-1 Receptor. Science Signaling, 2010, 3, ra10.	3.6	206
15	Phosphorylation of eIF4E promotes EMT and metastasis via translational control of SNAIL and MMP-3. Oncogene, 2015, 34, 2032-2042.	5.9	204
16	Insulin receptor expression by human prostate cancers. Prostate, 2009, 69, 33-40.	2.3	203
17	Translational control of immune responses: from transcripts to translatomes. Nature Immunology, 2014, 15, 503-511.	14.5	193
18	PDGF-BB modulates hematopoiesis and tumor angiogenesis by inducing erythropoietin production in stromal cells. Nature Medicine, 2012, 18, 100-110.	30.7	185

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19	Epigenetic Activation of a Subset of mRNAs by eIF4E Explains Its Effects on Cell Proliferation. PLoS ONE, 2007, 2, e242.	2.5	184
20	nanoCAGE reveals 5â€² UTR features that define specific modes of translation of functionally related MTOR-sensitive mRNAs. Genome Research, 2016, 26, 636-648.	5.5	177
21	Distinct perturbation of the translatome by the antidiabetic drug metformin. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 8977-8982.	7.1	169
22	A Novel 4EHP-GIGYF2 Translational Repressor Complex Is Essential for Mammalian Development. Molecular and Cellular Biology, 2012, 32, 3585-3593.	2.3	164
23	Leishmania Repression of Host Translation through mTOR Cleavage Is Required for Parasite Survival and Infection. Cell Host and Microbe, 2011, 9, 331-341.	11.0	153
24	Polysome Fractionation and Analysis of Mammalian Translatomes on a Genome-wide Scale. Journal of Visualized Experiments, 2014, , .	0.3	153
25	Eukaryotic Translation Initiation Factor 4Eâ€“Induced Progression of Primary Human Mammary Epithelial Cells along the Cancer Pathway Is Associated with Targeted Translational Deregulation of Oncogenic Drivers and Inhibitors. Cancer Research, 2007, 67, 6814-6824.	0.9	145
26	Improved precision and accuracy for microarrays using updated probe set definitions. BMC Bioinformatics, 2007, 8, 48.	2.6	145
27	IL-15 activates mTOR and primes stress-activated gene expression leading to prolonged antitumor capacity of NK cells. Blood, 2016, 128, 1475-1489.	1.4	136
28	A Unique ISR Program Determines Cellular Responses to Chronic Stress. Molecular Cell, 2017, 68, 885-900.e6.	9.7	135
29	Human muscle gene expression responses to endurance training provide a novel perspective on Duchenne muscular dystrophy. FASEB Journal, 2005, 19, 750-760.	0.5	128
30	p53-Dependent Translational Control of Senescence and Transformation via 4E-BPs. Cancer Cell, 2009, 16, 439-446.	16.8	104
31	The helicase protein DHX29 promotes translation initiation, cell proliferation, and tumorigenesis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22217-22222.	7.1	103
32	Considerations when using the significance analysis of microarrays (SAM) algorithm. BMC Bioinformatics, 2005, 6, 129.	2.6	101
33	Tumour PDGF-BB expression levels determine dual effects of anti-PDGF drugs on vascular remodelling and metastasis. Nature Communications, 2013, 4, 2129.	12.8	94
34	Fibrotic Myofibroblasts Manifest Genome-Wide Derangements of Translational Control. PLoS ONE, 2008, 3, e3220.	2.5	90
35	Altered regulation of the PINK1 locus: a link between type 2 diabetes and neurodegeneration?. FASEB Journal, 2007, 21, 3653-3665.	0.5	83
36	Antisense PNA effects in Escherichia coli are limited by the outer-membrane LPS layer. Microbiology (United Kingdom), 2000, 146, 2665-2670.	1.8	83

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37	Silanized nucleic acids: a general platform for DNA immobilization. Nucleic Acids Research, 2000, 28, 71e-71.	14.5	82
38	Oxygen sufficiency controls TOP mRNA translation via the TSC-Rheb-mTOR pathway in a 4E-BP-independent manner. Journal of Molecular Cell Biology, 2014, 6, 255-266.	3.3	77
39	SS18-SSX fusion protein-induced Wnt/Î²-catenin signaling is a therapeutic target in synovial sarcoma. Oncogene, 2014, 33, 5006-5016.	5.9	77
40	Data-driven unbiased curation of the TP53 tumor suppressor gene mutation database and validation by ultradeep sequencing of human tumors. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 9551-9556.	7.1	75
41	mTORC1 and CK2 coordinate ternary and eIF4F complex assembly. Nature Communications, 2016, 7, 11127.	12.8	75
42	Generally applicable transcriptome-wide analysis of translation using anota2seq. Nucleic Acids Research, 2019, 47, e70-e70.	14.5	70
43	Identification of differential translation in genome wide studies. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 21487-21492.	7.1	69
44	Distinct Translational Control in CD4+ T Cell Subsets. PLoS Genetics, 2013, 9, e1003494.	3.5	69
45	Adaptation to mitochondrial stress requires CHOP-directed tuning of ISR. Science Advances, 2021, 7, .	10.3	68
46	Identification of a Cell-of-Origin for Fibroblasts Comprising the Fibrotic Reticulum in Idiopathic Pulmonary Fibrosis. American Journal of Pathology, 2014, 184, 1369-1383.	3.8	67
47	anota: analysis of differential translation in genome-wide studies. Bioinformatics, 2011, 27, 1440-1441.	4.1	64
48	eIF4A supports an oncogenic translation program in pancreatic ductal adenocarcinoma. Nature Communications, 2019, 10, 5151.	12.8	64
49	HMG-CoA reductase inhibitors: role in normal and malignant cells. Critical Reviews in Oncology/Hematology, 1996, 22, 197-212.	4.4	63
50	Apoptosis resistance downstream of eIF4E: posttranscriptional activation of an anti-apoptotic transcript carrying a consensus hairpin structure. Nucleic Acids Research, 2006, 34, 4375-4386.	14.5	61
51	Translational and HIF-1Î±-Dependent Metabolic Reprogramming Underpin Metabolic Plasticity and Responses to Kinase Inhibitors and Biguanides. Cell Metabolism, 2018, 28, 817-832.e8.	16.2	61
52	Effective small interfering RNAs and phosphorothioate antisense DNAs have different preferences for target sites in the luciferase mRNAs. Biochemical and Biophysical Research Communications, 2003, 306, 712-717.	2.1	60
53	Comparative Microarray Analysis. OMICS A Journal of Integrative Biology, 2006, 10, 381-397.	2.0	56
54	mTOR-sensitive translation: Cleared fog reveals more trees. RNA Biology, 2017, 14, 1299-1305.	3.1	56

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55	Lack of correct data format and comparability limits future integrative microarray research. Nature Biotechnology, 2006, 24, 1322-1323.	17.5	54
56	Polysome-profiling in small tissue samples. Nucleic Acids Research, 2018, 46, e3-e3.	14.5	53
57	Nuclear translocation of IGF-1R via p150Glued and an importin-Î²/RanBP2-dependent pathway in cancer cells. Oncogene, 2015, 34, 2227-2238.	5.9	52
58	Toward a Genome-Wide Landscape of Translational Control. Cold Spring Harbor Perspectives in Biology, 2013, 5, a012302-a012302.	5.5	50
59	Enhanced translation expands the endo-lysosome size and promotes antigen presentation during phagocyte activation. PLoS Biology, 2019, 17, e3000535.	5.6	49
60	A proâ€tumourigenic loop at the human prostate tumour interface orchestrated by oestrogen, <scp>CXCL12</scp> and mast cell recruitment. Journal of Pathology, 2014, 234, 86-98.	4.5	47
61	Tumor cell survival dependence on the DHX9 DExH-box helicase. Oncogene, 2016, 35, 5093-5105.	5.9	47
62	Separate domains of G3BP promote efficient clustering of alphavirus replication complexes and recruitment of the translation initiation machinery. PLoS Pathogens, 2019, 15, e1007842.	4.7	45
63	Inhibition of Upf2-Dependent Nonsense-Mediated Decay Leads to Behavioral and Neurophysiological Abnormalities by Activating the Immune Response. Neuron, 2019, 104, 665-679.e8.	8.1	43
64	Estrogen receptor alpha drives proliferation in PTEN-deficient prostate carcinoma by stimulating survival signaling, MYC expression and altering glucose sensitivity. Oncotarget, 2015, 6, 604-616.	1.8	43
65	Eukaryotic Initiation Factor 4E Binding Protein Family of Proteins: Sentinels at a Translational Control Checkpoint in Lung Tumor Defense. Cancer Research, 2009, 69, 8455-8462.	0.9	42
66	Correlation of Regional Emphysema and Lung Cancer: A Lung Tissue Research Consortium-Based Study. Journal of Thoracic Oncology, 2014, 9, 639-645.	1.1	42
67	A coding and non-coding transcriptomic perspective on the genomics of human metabolic disease. Nucleic Acids Research, 2018, 46, 7772-7792.	14.5	41
68	Hedgehog signaling is active in human prostate cancer stroma and regulates proliferation and differentiation of adjacent epithelium. Prostate, 2013, 73, 1810-1823.	2.3	40
69	Suppression of the DHX9 Helicase Induces Premature Senescence in Human Diploid Fibroblasts in a p53-dependent Manner. Journal of Biological Chemistry, 2014, 289, 22798-22814.	3.4	37
70	Translational offsetting as a mode of estrogen receptor Î±â€dependent regulation of geneÂexpression. EMBO Journal, 2019, 38, e101323.	7.8	33
71	Selective inhibitors of mTORC1 activate 4EBP1 and suppress tumor growth. Nature Chemical Biology, 2021, 17, 1065-1074.	8.0	33
72	RNAi screening uncovers Dhx9 as a modifier of ABT-737 resistance in an Eμ-myc/Bcl-2 mouse model. Blood, 2013, 121, 3402-3412.	1.4	32

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73	Existence of a commitment program for mitosis in early G₁ in tumour cells. Cell Proliferation, 1995, 28, 33-43.	5.3	25
74	Functional comparison of single- and double-stranded siRNAs in mammalian cells. Biochemical and Biophysical Research Communications, 2004, 316, 680-687.	2.1	25
75	The expression signature of in vitro senescence resembles mouse but not human aging. Genome Biology, 2005, 6, R109.	9.6	25
76	eIF4A inhibition circumvents uncontrolled DNA replication mediated by 4E-BP1 loss in pancreatic cancer. JCI Insight, 2019, 4, .	5.0	25
77	Kinetics of Senescence-associated Changes of Gene Expression in an Epithelial, Temperature-sensitive SV40 Large T Antigen Model. Cancer Research, 2004, 64, 482-489.	0.9	24
78	An ErbB2/c-Src axis links bioenergetics with PRC2 translation to drive epigenetic reprogramming and mammary tumorigenesis. Nature Communications, 2019, 10, 2901.	12.8	24
79	MNK2 governs the macrophage antiinflammatory phenotype. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27556-27565.	7.1	24
80	Translational profiling of macrophages infected with Leishmania donovani identifies mTOR- and eIF4A-sensitive immune-related transcripts. PLoS Pathogens, 2020, 16, e1008291.	4.7	24
81	Cell-cycle-specific induction of quiescence achieved by limited inhibition of protein synthesis: counteractive effect of addition of purified growth factors. Journal of Cell Science, 1985, 73, 375-87.	2.0	23
82	The Protozoan Parasite Toxoplasma gondii Selectively Reprograms the Host Cell Translatome. Infection and Immunity, 2018, 86, .	2.2	22
83	The integrated stress response is tumorigenic and constitutes a therapeutic liability in KRAS-driven lung cancer. Nature Communications, 2021, 12, 4651.	12.8	22
84	Regulation of gene expression via translational buffering. Biochimica Et Biophysica Acta - Molecular Cell Research, 2022, 1869, 119140.	4.1	22
85	Cell cycle regulation of human diploid fibroblasts: Possible mechanisms of platelet-derived growth factor. Journal of Cellular Physiology, 1989, 139, 477-483.	4.1	21
86	Assessment of mTOR-Dependent Translational Regulation of Interferon Stimulated Genes. PLoS ONE, 2015, 10, e0133482.	2.5	21
87	Hepatic posttranscriptional network comprised of CCR4â€“NOT deadenylase and FGF21 maintains systemic metabolic homeostasis. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7973-7981.	7.1	21
88	Deadenylase-dependent mRNA decay of GDF15 and FGF21 orchestrates food intake and energy expenditure. Cell Metabolism, 2022, 34, 564-580.e8.	16.2	21
89	Distinct Cancer-Promoting Stromal Gene Expression Depending on Lung Function. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 348-358.	5.6	20
90	Role of 3â€²UTRs in the Translation of mRNAs Regulated by Oncogenic eIF4Eâ€”A Computational Inference. PLoS ONE, 2009, 4, e4868.	2.5	19

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91	Re-analysis of genome wide data on mammalian microRNA-mediated suppression of gene expression. Translation, 2013, 1, e24557.	2.9	19
92	Cell cycle-specific growth inhibition of human breast cancer cells induced by metabolic inhibitors. Glycobiology, 1993, 3, 475-479.	2.5	18
93	iGEMS: an integrated model for identification of alternative exon usage events. Nucleic Acids Research, 2016, 44, e109-e109.	14.5	18
94	Abolition of mevinolin-induced growth inhibition in human fibroblasts following transformation by simian virus 40. Cancer Research, 1989, 49, 5605-10.	0.9	18
95	Reprogrammed <scp>mRNA</scp> translation drives resistance to therapeutic targeting of ribosome biogenesis. EMBO Journal, 2020, 39, e105111.	7.8	17
96	Normalization of mass spectrometry data (NOMAD). Advances in Biological Regulation, 2018, 67, 128-133.	2.3	16
97	Role of biosynthesis of cholesterol and isoprenoid derivatives in regulation of G1 progression and cell proliferation of 3T6 cells. Journal of Cellular Physiology, 1987, 133, 163-168.	4.1	15
98	A Chemical Genetic Screen for mTOR Pathway Inhibitors Based on 4E-BP-Dependent Nuclear Accumulation of eIF4E. Chemistry and Biology, 2009, 16, 1240-1249.	6.0	15
99	Cancer as an ecomolecular disease and a neoplastic consortium. Biochimica Et Biophysica Acta: Reviews on Cancer, 2017, 1868, 484-499.	7.4	14
100	eIF4E-Binding Proteins 1 and 2 Limit Macrophage Anti-Inflammatory Responses through Translational Repression of IL-10 and Cyclooxygenase-2. Journal of Immunology, 2018, 200, 4102-4116.	0.8	14
101	Regulatory element identification in subsets of transcripts: Comparison and integration of current computational methods. Rna, 2009, 15, 1469-1482.	3.5	13
102	SPANX Control of Lamin A/C Modulates Nuclear Architecture and Promotes Melanoma Growth. Molecular Cancer Research, 2020, 18, 1560-1573.	3.4	13
103	Gene Expression â€“ Time to Change Point of View?. Biotechnology and Genetic Engineering Reviews, 2008, 25, 77-92.	6.2	11
104	MNK2 deficiency potentiates Î²-cell regeneration via translational regulation. Nature Chemical Biology, 2022, 18, 942-953.	8.0	9
105	Adaptive translational reprogramming of metabolism limits the response to targeted therapy in BRAFV600 melanoma. Nature Communications, 2022, 13, 1100.	12.8	8
106	RITA requires eIF2Î±-dependent modulation of mRNA translation for its anti-cancer activity. Cell Death and Disease, 2019, 10, 845.	6.3	7
107	Polysome Fractionation for Transcriptome-Wide Studies of mRNA Translation. Methods in Molecular Biology, 2022, 2418, 223-241.	0.9	7
108	Regulatory role of mevalonate in the growth of normal and neoplastic human mammary epithelial cells. Anticancer Research, 1993, 13, 1075-9.	1.1	7

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109	PABP prevents the untimely decay of select mRNA populations in human cells. EMBO Journal, 2022, 41, e108650.	7.8	7
110	Characterization of lacZ Complementation Deletions Using Membrane Receptor Dimerization. BioTechniques, 2003, 34, 346-355.	1.8	6
111	Effects of isoprenoids on growth of normal human mammary epithelial cells and breast cancer cells in vitro. Anticancer Research, 1994, 14, 123-8.	1.1	6
112	Anota2seq Analysis for Transcriptome-Wide Studies of mRNA Translation. Methods in Molecular Biology, 2022, 2418, 243-268.	0.9	5
113	Chapter 12 Using Functional Genomics to Study PINK1 and Metabolic Physiology. Methods in Enzymology, 2009, 457, 211-229.	1.0	3
114	Quantitative codon optimisation of DNA libraries encoding sub-random peptides: design and characterisation of a novel library encoding transmembrane domain peptides. Nucleic Acids Research, 2002, 30, 133e-133.	14.5	2
115	Genome-Wide Analysis of Translational Control. , 2009, , 217-236.		2
116	Tandem Mass Spectrometry of Geranylgeranylcysteine. Journal of Mass Spectrometry, 1997, 32, 899-903.	1.6	1
117	DNA Immobilization: Silanized Nucleic Acids and Nanoprinting. , 0, , 45.		1
118	Chronic Obstructive Pulmonary Disease Phenotype Dictates Cancer-Promoting Stromal Gene Expression Programs. Annals of the American Thoracic Society, 2018, 15, S290-S291.	3.2	1
119	The integrated stress response exposes a therapeutic vulnerability in KRAS driven lung cancer. European Journal of Cancer, 2020, 138, S23.	2.8	1
120	Translational and HIF11-Dependent Metabolic Reprograming Underpin Oncometabolome Plasticity and Synergy Between Oncogenic Kinase Inhibitors and Biguanides. SSRN Electronic Journal, 0, , .	0.4	1
121	The role of HMG CoA reductase and dolichol synthesis in the control of 3T6 cell proliferation: effects of cell crowding, serum depletion and addition of epidermal growth factor. Journal of Cell Science, 1988, 90 (Pt 4), 613-20.	2.0	1