# Nahum Sonenberg

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 205 papers | 34,253 citations | 83 h-index | 185 g-index |
| 216 ext. papers | 38,836 ext. citations | 17 avg, IF | 7.53 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 205 | UBR4/POE facilitates secretory trafficking to maintain circadian clock synchrony.. *Nature Communications*, **2022**, 13, 1594 | 17.4 | 0 |
| 204 | Membrane-dependent relief of translation elongation arrest on pseudouridine- and N1-methyl-pseudouridine-modified mRNAs.. *Nucleic Acids Research*, **2021**, | 20.1 | 1 |
| 203 | High-risk human papillomavirus-18 uses an mRNA sequence to synthesize oncoprotein E6 in tumors. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118, | 11.5 | 1 |
| 202 | microRNA-mediated translation repression through GYF-1 and IFE-4 in C. elegans development. *Nucleic Acids Research*, **2021**, 49, 4803-4815 | 20.1 | 9 |
| 201 | microRNA-induced translational control of antiviral immunity by the cap-binding protein 4EHP. *Molecular Cell*, **2021**, 81, 1187-1199.e5 | 17.6 | 5 |
| 200 | Inhibiting the MNK1/2-eIF4E axis impairs melanoma phenotype switching and potentiates antitumor immune responses. *Journal of Clinical Investigation*, **2021**, 131, | 15.9 | 11 |
| 199 | 4E-BP2-dependent translation in cerebellar Purkinje cells controls spatial memory but not autism-like behaviors. *Cell Reports*, **2021**, 35, 109036 | 10.6 | 1 |
| 198 | Alexander Spirin (1931–2020): A visionary scientist, a teacher, a colleague, a friend. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118, e2103938118 | 11.5 | 1 |
| 197 | 4E-BP2-dependent translation in parvalbumin neurons controls epileptic seizure threshold. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118, | 11.5 | 4 |
| 196 | BAD regulates mammary gland morphogenesis by 4E-BP1-mediated control of localized translation in mouse and human models. *Nature Communications*, **2021**, 12, 2939 | 17.4 | 1 |
| 195 | mRNA translation is a therapeutic vulnerability necessary for bladder epithelial transformation. *JCI Insight*, **2021**, 6, | 9.9 | 2 |
| 194 | Lesch-Nyhan disease causes impaired energy metabolism and reduced developmental potential in midbrain dopaminergic cells. *Stem Cell Reports*, **2021**, 16, 1749-1762 | 8 | 2 |
| 193 | The multifaceted eukaryotic cap structure. *Wiley Interdisciplinary Reviews RNA*, **2021**, 12, e1636 | 9.3 | 8 |
| 192 | MNK Inhibition Sensitizes -Mutant Colorectal Cancer to mTORC1 Inhibition by Reducing eIF4E Phosphorylation and c-MYC Expression. *Cancer Discovery*, **2021**, 11, 1228-1247 | 24.4 | 11 |
| 191 | Mitochondrial Threonyl-tRNA Synthetase TARS2 Is Required for Threonine-Sensitive mTORC1 Activation. *Molecular Cell*, **2021**, 81, 398-407.e4 | 17.6 | 8 |
| 190 | Antidepressant actions of ketamine engage cell-specific translation via eIF4E. *Nature*, **2021**, 590, 315-319 | 50.4 | 29 |
| 189 | Lysergic acid diethylamide (LSD) promotes social behavior through mTORC1 in the excitatory neurotransmission. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118, | 11.5 | 13 |

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| 188 | Richard Jackson (1940–2020) - A towering presence in translation. *EMBO Journal*, **2021**, 40, | 13 | 78 |
| 187 | Assessing eukaryotic initiation factor 4F subunit essentiality by CRISPR-induced gene ablation in the mouse. *Cellular and Molecular Life Sciences*, **2021**, 78, 6709-6719 | 10.3 | 2 |
| 186 | Wakefulness/sleep architecture and electroencephalographic activity in mice lacking the translational repressor 4E-BP1 or 4E-BP2. *Sleep*, **2020**, 43, | 1.1 | 1 |
| 185 | Dysregulated translational control in brain disorders: from genes to behavior. *Current Opinion in Genetics and Development*, **2020**, 65, 34-41 | 4.9 | 5 |
| 184 | Non-cooperative 4E-BP2 folding with exchange between eIF4E-binding and binding-incompatible states tunes cap-dependent translation inhibition. *Nature Communications*, **2020**, 11, 3146 | 17.4 | 6 |
| 183 | Elevated V-ATPase Activity Following PTEN Loss Is Required for Enhanced Oncogenic Signaling in Breast Cancer. *Molecular Cancer Research*, **2020**, 18, 1477-1490 | 6.6 | 4 |
| 182 | Autism-Misregulated eIF4G Microexons Control Synaptic Translation and Higher Order Cognitive Functions. *Molecular Cell*, **2020**, 77, 1176-1192.e16 | 17.6 | 32 |
| 181 | Rheb1-Independent Activation of mTORC1 in Mammary Tumors Occurs through Activating Mutations in mTOR. *Cell Reports*, **2020**, 31, 107571 | 10.6 | 4 |
| 180 | The translational landscape of ground state pluripotency. *Nature Communications*, **2020**, 11, 1617 | 17.4 | 10 |
| 179 | Aster-C coordinates with COP I vesicles to regulate lysosomal trafficking and activation of mTORC1. *EMBO Reports*, **2020**, 21, e49898 | 6.5 | 7 |
| 178 | eIF4E S209 phosphorylation licenses myc- and stress-driven oncogenesis. *ELife*, **2020**, 9, | 8.9 | 7 |
| 177 | eIF2B controls memory consolidation via excitatory and somatostatin neurons. *Nature*, **2020**, 586, 412-416 | 50.4 | 15 |
| 176 | Metformin inhibits RAN translation through PKR pathway and mitigates disease in ALS/FTD mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 18591-18599 | 11.5 | 30 |
| 175 | The eIF4E homolog 4EHP (eIF4E2) regulates hippocampal long-term depression and impacts social behavior. *Molecular Autism*, **2020**, 11, 92 | 6.5 | 3 |
| 174 | Unorthodox Mechanisms to Initiate Translation Open Novel Paths for Gene Expression. *Journal of Molecular Biology*, **2020**, 432, 166702 | 6.5 | 2 |
| 173 | Identification and characterization of hippuristanol-resistant mutants reveals eIF4A1 dependencies within mRNA 5′leader regions. *Nucleic Acids Research*, **2020**, 48, 9521-9537 | 20.1 | 11 |
| 172 | 4E-BP-Dependent Translational Control of Mediates Adipose Tissue Macrophage Inflammatory Response. *Journal of Immunology*, **2020**, 204, 2392-2400 | 5.3 | 8 |
| 171 | Phospho-dependent phase separation of FMRP and CAPRIN1 recapitulates regulation of translation and deadenylation. *Science*, **2019**, 365, 825-829 | 33.3 | 128 |

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|---|---|---|---|
| 170 | Inhibitory interneurons mediate autism-associated behaviors via 4E-BP2. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 18060-18067 | 11.5 | 20 |
| 169 | The eIF2α Kinase GCN2 Modulates Period and Rhythmicity of the Circadian Clock by Translational Control of Atf4. *Neuron*, **2019**, 104, 724-735.e6 | 13.9 | 24 |
| 168 | The Organizing Principles of Eukaryotic Ribosome Recruitment. *Annual Review of Biochemistry*, **2019**, 88, 307-335 | 29.1 | 88 |
| 167 | 4E-BP1 Is a Tumor Suppressor Protein Reactivated by mTOR Inhibition in Head and Neck Cancer. *Cancer Research*, **2019**, 79, 1438-1450 | 10.1 | 33 |
| 166 | A threonyl-tRNA synthetase-mediated translation initiation machinery. *Nature Communications*, **2019**, 10, 1357 | 17.4 | 27 |
| 165 | Hepatic posttranscriptional network comprised of CCR4-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 | 11.5 | 16 |
| 164 | 4E-BP1 and 4E-BP2 double knockout mice are protected from aging-associated sarcopenia. *Journal of Cachexia, Sarcopenia and Muscle*, **2019**, 10, 696-709 | 10.3 | 10 |
| 163 | Protein Synthesis and Translational Control: A Historical Perspective. *Cold Spring Harbor Perspectives in Biology*, **2019**, 11, | 10.2 | 10 |
| 162 | Principles of Translational Control. *Cold Spring Harbor Perspectives in Biology*, **2019**, 11, | 10.2 | 57 |
| 161 | Translational Control in Cancer. *Cold Spring Harbor Perspectives in Biology*, **2019**, 11, | 10.2 | 94 |
| 160 | eIF4A inhibition circumvents uncontrolled DNA replication mediated by 4E-BP1 loss in pancreatic cancer. *JCI Insight*, **2019**, 4, | 9.9 | 16 |
| 159 | V-ATPase-associated prorenin receptor is upregulated in prostate cancer after PTEN loss. *Oncotarget*, **2019**, 10, 4923-4936 | 3.3 | 7 |
| 158 | Phosphoregulated FMRP phase separation models activity-dependent translation through bidirectional control of mRNA granule formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 4218-4227 | 11.5 | 125 |
| 157 | Role of Translational Attenuation in Inherited Retinal Degeneration **2019**, 60, 4849-4857 | | 4 |
| 156 | Lab-On-A-Chip for the Development of Pro-/Anti-Angiogenic Nanomedicines to Treat Brain Diseases. *International Journal of Molecular Sciences*, **2019**, 20, | 6.3 | 3 |
| 155 | Nociceptor Translational Profiling Reveals the Ragulator-Rag GTPase Complex as a Critical Generator of Neuropathic Pain. *Journal of Neuroscience*, **2019**, 39, 393-411 | 6.6 | 57 |
| 154 | Metformin for Treatment of Fragile X Syndrome and Other Neurological Disorders. *Annual Review of Medicine*, **2019**, 70, 167-181 | 17.4 | 38 |
| 153 | The mTOR Targets 4E-BP1/2 Restrain Tumor Growth and Promote Hypoxia Tolerance in PTEN-driven Prostate Cancer. *Molecular Cancer Research*, **2018**, 16, 682-695 | 6.6 | 18 |

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|---|---|---|---|
| 152 | Beyond molecular tumor heterogeneity: protein synthesis takes control. *Oncogene*, **2018**, 37, 2490-2501 | 9.2 | 28 |
| 151 | Translational control in the tumor microenvironment promotes lung metastasis: Phosphorylation of eIF4E in neutrophils. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E2202-E2209 | 11.5 | 47 |
| 150 | Removing 4E-BP Enables Synapses to Refine without Postsynaptic Activity. *Cell Reports*, **2018**, 23, 11-22 | 10.6 | 4 |
| 149 | Aminoacylation of Proteins: New Targets for the Old ARSenal. *Cell Metabolism*, **2018**, 27, 1-3 | 24.6 | 27 |
| 148 | Neuronal Regulation of eIF2B Function in Health and Neurological Disorders. *Trends in Molecular Medicine*, **2018**, 24, 575-589 | 11.5 | 33 |
| 147 | mTOR signaling in VIP neurons regulates circadian clock synchrony and olfaction. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E3296-E3304 | 11.5 | 26 |
| 146 | Translational control of ERK signaling through miRNA/4EHP-directed silencing. *ELife*, **2018**, 7, | 8.9 | 28 |
| 145 | Translation deregulation in human disease. *Nature Reviews Molecular Cell Biology*, **2018**, 19, 791-807 | 48.7 | 96 |
| 144 | Active-site mTOR inhibitors augment HSV1-dICP0 infection in cancer cells via dysregulated eIF4E/4E-BP axis. *PLoS Pathogens*, **2018**, 14, e1007264 | 7.6 | 11 |
| 143 | Structural Dynamics of the GW182 Silencing Domain Including its RNA Recognition motif (RRM) Revealed by Hydrogen-Deuterium Exchange Mass Spectrometry. *Journal of the American Society for Mass Spectrometry*, **2018**, 29, 158-173 | 3.5 | 4 |
| 142 | Eukaryotic initiation factor 4F-sidestepping resistance mechanisms arising from expression heterogeneity. *Current Opinion in Genetics and Development*, **2018**, 48, 89-96 | 4.9 | 9 |
| 141 | Dynamic interaction of poly(A)-binding protein with the ribosome. *Scientific Reports*, **2018**, 8, 17435 | 4.9 | 10 |
| 140 | Translational control of tumor immune escape via the eIF4F-STAT1-PD-L1 axis in melanoma. *Nature Medicine*, **2018**, 24, 1877-1886 | 50.5 | 109 |
| 139 | Translational control of depression-like behavior via phosphorylation of eukaryotic translation initiation factor 4E. *Nature Communications*, **2018**, 9, 2459 | 17.4 | 36 |
| 138 | N1-methyl-pseudouridine in mRNA enhances translation through eIF2B dependent and independent mechanisms by increasing ribosome density. *Nucleic Acids Research*, **2017**, 45, 6023-6036 | 20.1 | 97 |
| 137 | Metformin ameliorates core deficits in a mouse model of fragile X syndrome. *Nature Medicine*, **2017**, 23, 674-677 | 50.5 | 113 |
| 136 | Cap-binding protein 4EHP effects translation silencing by microRNAs. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 5425-5430 | 11.5 | 56 |
| 135 | Translational control and the cancer cell response to stress. *Current Opinion in Cell Biology*, **2017**, 45, 102-109 | 9 | 48 |

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|---|---|---|---|
| 134 | Muscle metabolic alterations induced by genetic ablation of 4E-BP1 and 4E-BP2 in response to diet-induced obesity. *Molecular Nutrition and Food Research*, **2017**, 61, 1700128 | 5.9 | 7 |
| 133 | Fragile X syndrome. *Nature Reviews Disease Primers*, **2017**, 3, 17065 | 51.1 | 257 |
| 132 | mTOR Controls Mitochondrial Dynamics and Cell Survival via MTFP1. *Molecular Cell*, **2017**, 67, 922-935.e5 | 17.6 | 156 |
| 131 | Translation is actively regulated during the differentiation of CD8 effector T cells. *Nature Immunology*, **2017**, 18, 1046-1057 | 19.1 | 79 |
| 130 | Loss of mTORC1 signalling impairs β-cell homeostasis and insulin processing. *Nature Communications*, **2017**, 8, 16014 | 17.4 | 73 |
| 129 | The MNK-eIF4E Signaling Axis Contributes to Injury-Induced Nociceptive Plasticity and the Development of Chronic Pain. *Journal of Neuroscience*, **2017**, 37, 7481-7499 | 6.6 | 70 |
| 128 | The E3 ubiquitin ligase and RNA-binding protein ZNF598 orchestrates ribosome quality control of premature polyadenylated mRNAs. *Nature Communications*, **2017**, 8, 16056 | 17.4 | 101 |
| 127 | Epiregulin and EGFR interactions are involved in pain processing. *Journal of Clinical Investigation*, **2017**, 127, 3353-3366 | 15.9 | 54 |
| 126 | Metformin requires 4E-BPs to induce apoptosis and repress translation of Mcl-1 in hepatocellular carcinoma cells. *Oncotarget*, **2017**, 8, 50542-50556 | 3.3 | 18 |
| 125 | A continuum of mRNP complexes in embryonic microRNA-mediated silencing. *Nucleic Acids Research*, **2017**, 45, 2081-2098 | 20.1 | 14 |
| 124 | The rate of protein synthesis in hematopoietic stem cells is limited partly by 4E-BPs. *Genes and Development*, **2016**, 30, 1698-703 | 12.6 | 48 |
| 123 | Control of embryonic stem cell self-renewal and differentiation via coordinated alternative splicing and translation of YY2. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 12360-12367 | 11.5 | 37 |
| 122 | Translation control during prolonged mTORC1 inhibition mediated by 4E-BP3. *Nature Communications*, **2016**, 7, 11776 | 17.4 | 27 |
| 121 | Proposing a mechanism of action for ataluren. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 12353-12355 | 11.5 | 18 |
| 120 | Translational control by 5′untranslated regions of eukaryotic mRNAs. *Science*, **2016**, 352, 1413-6 | 33.3 | 533 |
| 119 | Diverse cap-binding properties of Drosophila eIF4E isoforms. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2016**, 1864, 1292-303 | 4 | 1 |
| 118 | 4E-BP2/SH2B1/IRS2 Are Part of a Novel Feedback Loop That Controls β-Cell Mass. *Diabetes*, **2016**, 65, 2235-48 | 0.9 | 11 |
| 117 | Acute Fasting Regulates Retrograde Synaptic Enhancement through a 4E-BP-Dependent Mechanism. *Neuron*, **2016**, 92, 1204-1212 | 13.9 | 18 |

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|---|---|---|---|
| 116 | The 4E-BP-eIF4E axis promotes rapamycin-sensitive growth and proliferation in lymphocytes. *Science Signaling*, **2016**, 9, ra57 | 8.8 | 43 |
| 115 | LRRK2 regulates retrograde synaptic compensation at the Drosophila neuromuscular junction. *Nature Communications*, **2016**, 7, 12188 | 17.4 | 26 |
| 114 | S6K-STING interaction regulates cytosolic DNA-mediated activation of the transcription factor IRF3. *Nature Immunology*, **2016**, 17, 514-522 | 19.1 | 45 |
| 113 | eIF2 phosphorylation controls thermal nociception. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 11949-11954 | 11.5 | 25 |
| 112 | NRF2 Promotes Tumor Maintenance by Modulating mRNA Translation in Pancreatic Cancer. *Cell*, **2016**, 166, 963-976 | 56.2 | 214 |
| 111 | mTOR kinase is needed for the development and stabilization of dendritic arbors in newly born olfactory bulb neurons. *Developmental Neurobiology*, **2016**, 76, 1308-1327 | 3.2 | 25 |
| 110 | Targeting the translation machinery in cancer. *Nature Reviews Drug Discovery*, **2015**, 14, 261-78 | 64.1 | 477 |
| 109 | Translational tolerance of mitochondrial genes to metabolic energy stress involves TISU and eIF1-eIF4GI cooperation in start codon selection. *Cell Metabolism*, **2015**, 21, 479-92 | 24.6 | 57 |
| 108 | Light-regulated translational control of circadian behavior by eIF4E phosphorylation. *Nature Neuroscience*, **2015**, 18, 855-62 | 25.5 | 53 |
| 107 | Microtubule disruption synergizes with oncolytic virotherapy by inhibiting interferon translation and potentiating bystander killing. *Nature Communications*, **2015**, 6, 6410 | 17.4 | 36 |
| 106 | The long unfinished march towards understanding microRNA-mediated repression. *Rna*, **2015**, 21, 519-24 | 5.8 | 14 |
| 105 | G3BP1 promotes stress-induced RNA granule interactions to preserve polyadenylated mRNA. *Journal of Cell Biology*, **2015**, 209, 73-84 | 7.3 | 65 |
| 104 | DAP5 associates with eIF2 and eIF4AI to promote Internal Ribosome Entry Site driven translation. *Nucleic Acids Research*, **2015**, 43, 3764-75 | 20.1 | 56 |
| 103 | Inhibition of Group I Metabotropic Glutamate Receptors Reverses Autistic-Like Phenotypes Caused by Deficiency of the Translation Repressor eIF4E Binding Protein 2. *Journal of Neuroscience*, **2015**, 35, 11125-32 | 6.6 | 39 |
| 102 | Norepinephrine triggers metaplasticity of LTP by increasing translation of specific mRNAs. *Learning and Memory*, **2015**, 22, 499-508 | 2.8 | 34 |
| 101 | Folding of an intrinsically disordered protein by phosphorylation as a regulatory switch. *Nature*, **2015**, 519, 106-9 | 50.4 | 344 |
| 100 | mTORC1-mediated translational elongation limits intestinal tumour initiation and growth. *Nature*, **2015**, 517, 497-500 | 50.4 | 190 |
| 99 | Signalling to eIF4E in cancer. *Biochemical Society Transactions*, **2015**, 43, 763-72 | 5.1 | 145 |

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|---|---|---|---|
| 98 | Deficiency in mTORC1-controlled C/EBP mRNA translation improves metabolic health in mice. *EMBO Reports*, **2015**, 16, 1022-36 | 6.5 | 25 |
| 97 | Phosphorylation of eIF4E Confers Resistance to Cellular Stress and DNA-Damaging Agents through an Interaction with 4E-T: A Rationale for Novel Therapeutic Approaches. *PLoS ONE*, **2015**, 10, e0123352 | 3.7 | 26 |
| 96 | Targeting the eIF4F translation initiation complex: a critical nexus for cancer development. *Cancer Research*, **2015**, 75, 250-63 | 10.1 | 220 |
| 95 | Translational control of nociception via 4E-binding protein 1. *ELife*, **2015**, 4, | 8.9 | 24 |
| 94 | Remote control of gene function by local translation. *Cell*, **2014**, 157, 26-40 | 56.2 | 215 |
| 93 | Largen: a molecular regulator of mammalian cell size control. *Molecular Cell*, **2014**, 53, 904-15 | 17.6 | 19 |
| 92 | Translational control of immune responses: from transcripts to translatomes. *Nature Immunology*, **2014**, 15, 503-11 | 19.1 | 143 |
| 91 | Parallel measurement of dynamic changes in translation rates in single cells. *Nature Methods*, **2014**, 11, 86-93 | 21.6 | 34 |
| 90 | Distinctive tRNA repertoires in proliferating versus differentiating cells. *Cell*, **2014**, 158, 1238-1239 | 56.2 | 13 |
| 89 | MicroRNAs trigger dissociation of eIF4AI and eIF4AII from target mRNAs in humans. *Molecular Cell*, **2014**, 56, 79-89 | 17.6 | 99 |
| 88 | Insulin regulates carboxypeptidase E by modulating translation initiation scaffolding protein eIF4G1 in pancreatic cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, E2319-28 | 11.5 | 30 |
| 87 | Multifaceted regulation of somatic cell reprogramming by mRNA translational control. *Cell Stem Cell*, **2014**, 14, 606-16 | 18 | 31 |
| 86 | Single-molecule kinetics of the eukaryotic initiation factor 4AI upon RNA unwinding. *Structure*, **2014**, 22, 941-8 | 5.2 | 39 |
| 85 | Human DDX6 effects miRNA-mediated gene silencing via direct binding to CNOT1. *Rna*, **2014**, 20, 1398-409 | 5.0 | 91 |
| 84 | Pharmacogenetic inhibition of eIF4E-dependent Mmp9 mRNA translation reverses fragile X syndrome-like phenotypes. *Cell Reports*, **2014**, 9, 1742-1755 | 10.6 | 131 |
| 83 | Inducible costimulator facilitates T-dependent B cell activation by augmenting IL-4 translation. *Molecular Immunology*, **2014**, 59, 46-54 | 4.3 | 30 |
| 82 | Translational Control of Autism and Fragile-X Syndrome **2014**, 249-276 | | |
| 81 | mTORC1 controls mitochondrial activity and biogenesis through 4E-BP-dependent translational regulation. *Cell Metabolism*, **2013**, 18, 698-711 | 24.6 | 482 |

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|---|---|---|---|
| 80 | Autism-related deficits via dysregulated eIF4E-dependent translational control. *Nature*, **2013**, 493, 371-7 | 50.4 | 367 |
| 79 | mTORC1 inhibition induces pain via IRS-1-dependent feedback activation of ERK. *Pain*, **2013**, 154, 1080-91 | | 63 |
| 78 | Rheb (Ras homologue enriched in brain)-dependent mammalian target of rapamycin complex 1 (mTORC1) activation becomes indispensable for cardiac hypertrophic growth after early postnatal period. *Journal of Biological Chemistry*, **2013**, 288, 10176-10187 | 5.4 | 35 |
| 77 | Structural basis for the recruitment of the human CCR4-NOT deadenylase complex by tristetraprolin. *Nature Structural and Molecular Biology*, **2013**, 20, 735-9 | 17.6 | 172 |
| 76 | Introduction to Translation. *Translation*, **2013**, 1, e24611 | | |
| 75 | Translational control and autism-like behaviors. *Cellular Logistics*, **2013**, 3, e24551 | | 15 |
| 74 | Polysome Profiling Analysis. *Bio-protocol*, **2013**, 3, | 0.9 | 5 |
| 73 | Translational homeostasis via the mRNA cap-binding protein, eIF4E. *Molecular Cell*, **2012**, 46, 847-58 | 17.6 | 121 |
| 72 | eIF4E/4E-BP ratio predicts the efficacy of mTOR targeted therapies. *Cancer Research*, **2012**, 72, 6468-76 | 10.1 | 115 |
| 71 | 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, 8977-82 | 11.5 | 149 |
| 70 | Translational control of the activation of transcription factor NF-B and production of type I interferon by phosphorylation of the translation factor eIF4E. *Nature Immunology*, **2012**, 13, 543-550 | 19.1 | 86 |
| 69 | Structure-activity analysis of niclosamide reveals potential role for cytoplasmic pH in control of mammalian target of rapamycin complex 1 (mTORC1) signaling. *Journal of Biological Chemistry*, **2012**, 287, 17530-17545 | 5.4 | 110 |
| 68 | HuR protein attenuates miRNA-mediated repression by promoting miRISC dissociation from the target RNA. *Nucleic Acids Research*, **2012**, 40, 5088-100 | 20.1 | 136 |
| 67 | A novel 4EHP-GIGYF2 translational repressor complex is essential for mammalian development. *Molecular and Cellular Biology*, **2012**, 32, 3585-93 | 4.8 | 107 |
| 66 | Retrospective. Aaron Shatkin (1934-2012). *Science*, **2012**, 337, 309 | 33.3 | 1 |
| 65 | Mechanism of action of miRNA. *FASEB Journal*, **2012**, 26, 461.3 | 0.9 | 1 |
| 64 | Leishmania repression of host translation through mTOR cleavage is required for parasite survival and infection. *Cell Host and Microbe*, **2011**, 9, 331-41 | 23.4 | 129 |
| 63 | miRNA-mediated deadenylation is orchestrated by GW182 through two conserved motifs that interact with CCR4-NOT. *Nature Structural and Molecular Biology*, **2011**, 18, 1211-7 | 17.6 | 238 |

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|---|---|---|---|
| 62 | Targeting adenosine monophosphate-activated protein kinase (AMPK) in preclinical models reveals a potential mechanism for the treatment of neuropathic pain. *Molecular Pain*, **2011**, 7, 70 | 3.4 | 155 |
| 61 | Unique translation initiation of mRNAs-containing TISU element. *Nucleic Acids Research*, **2011**, 39, 7598-609 | 2021 | 73 |
| 60 | 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, 14134-9 | 11.5 | 370 |
| 59 | mTORC1-mediated cell proliferation, but not cell growth, controlled by the 4E-BPs. *Science*, **2010**, 328, 1172-6 | 33.3 | 538 |
| 58 | Vesicular stomatitis virus oncolysis is potentiated by impairing mTORC1-dependent type I IFN production. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 1576-81 | 11.5 | 100 |
| 57 | Postnatal deamidation of 4E-BP2 in brain enhances its association with raptor and alters kinetics of excitatory synaptic transmission. *Molecular Cell*, **2010**, 37, 797-808 | 17.6 | 66 |
| 56 | Double-stranded RNA-dependent protein kinase links pathogen sensing with stress and metabolic homeostasis. *Cell*, **2010**, 140, 338-48 | 56.2 | 384 |
| 55 | Regulation of mRNA translation and stability by microRNAs. *Annual Review of Biochemistry*, **2010**, 79, 351-79 | 29.1 | 2151 |
| 54 | p53-dependent translational control of senescence and transformation via 4E-BPs. *Cancer Cell*, **2009**, 16, 439-46 | 24.3 | 90 |
| 53 | Regulation of translation initiation in eukaryotes: mechanisms and biological targets. *Cell*, **2009**, 136, 731-45 | 56.2 | 2215 |
| 52 | Translational control of long-lasting synaptic plasticity and memory. *Neuron*, **2009**, 61, 10-26 | 13.9 | 684 |
| 51 | Mammalian miRNA RISC recruits CAF1 and PABP to affect PABP-dependent deadenylation. *Molecular Cell*, **2009**, 35, 868-80 | 17.6 | 301 |
| 50 | Translational control of the innate immune response through IRF-7. *Nature*, **2008**, 452, 323-8 | 50.4 | 249 |
| 49 | The fragile X syndrome protein represses activity-dependent translation through CYFIP1, a new 4E-BP. *Cell*, **2008**, 134, 1042-54 | 56.2 | 442 |
| 48 | eIF4E, the mRNA cap-binding protein: from basic discovery to translational research. *Biochemistry and Cell Biology*, **2008**, 86, 178-83 | 3.6 | 152 |
| 47 | MicroRNA inhibition of translation initiation in vitro by targeting the cap-binding complex eIF4F. *Science*, **2007**, 317, 1764-7 | 33.3 | 412 |
| 46 | ERK and mTOR signaling couple beta-adrenergic receptors to translation initiation machinery to gate induction of protein synthesis-dependent long-term potentiation. *Journal of Biological Chemistry*, **2007**, 282, 27527-27535 | 5.4 | 90 |
| 45 | New modes of translational control in development, behavior, and disease. *Molecular Cell*, **2007**, 28, 721-9 | 17.6 | 169 |

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|---|---|---|---|
| 44 | Elevated sensitivity to diet-induced obesity and insulin resistance in mice lacking 4E-BP1 and 4E-BP2. *Journal of Clinical Investigation*, **2007**, 117, 387-96 | 15.9 | 245 |
| 43 | Epigenetic activation of a subset of mRNAs by eIF4E explains its effects on cell proliferation. *PLoS ONE*, **2007**, 2, e242 | 3.7 | 171 |
| 42 | Initiation of Protein Synthesis **2006**, 219-322 | | |
| 41 | Signal transduction. Protein synthesis and oncogenesis meet again. *Science*, **2006**, 314, 428-9 | 33.3 | 33 |
| 40 | The mTOR/PI3K and MAPK pathways converge on eIF4B to control its phosphorylation and activity. *EMBO Journal*, **2006**, 25, 2781-91 | 13 | 391 |
| 39 | A new paradigm for translational control: inhibition via 5T3TmRNA tethering by Bicoid and the eIF4E cognate 4EHP. *Cell*, **2005**, 121, 411-23 | 56.2 | 198 |
| 38 | Regulation of cap-dependent translation by eIF4E inhibitory proteins. *Nature*, **2005**, 433, 477-80 | 50.4 | 755 |
| 37 | Mammalian poly(A)-binding protein is a eukaryotic translation initiation factor, which acts via multiple mechanisms. *Genes and Development*, **2005**, 19, 104-13 | 12.6 | 351 |
| 36 | The translation repressor 4E-BP2 is critical for eIF4F complex formation, synaptic plasticity, and memory in the hippocampus. *Journal of Neuroscience*, **2005**, 25, 9581-90 | 6.6 | 248 |
| 35 | A novel function of the MA-3 domains in transformation and translation suppressor Pdcd4 is essential for its binding to eukaryotic translation initiation factor 4A. *Molecular and Cellular Biology*, **2004**, 24, 3894-906 | 4.8 | 169 |
| 34 | Phosphorylation of eucaryotic translation initiation factor 4B Ser422 is modulated by S6 kinases. *EMBO Journal*, **2004**, 23, 1761-9 | 13 | 363 |
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