Tommy Alain

List of Publications by Year
in descending order

61 papers	4,521 citations	172457 29 h-index	123424 61 g-index
65 all docs	65 docs citations	65 times ranked	8239 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	mTORC1-Mediated Cell Proliferation, But Not Cell Growth, Controlled by the 4E-BPs. Science, 2010, 328, 1172-1176.	12.6	624
3	Quantitative analysis of SARS-CoV-2 RNA from wastewater solids in communities with low COVID-19 incidence and prevalence. Water Research, 2021, 188, 116560.	11.3	297
4	SARS-CoV2-mediated suppression of NRF2-signaling reveals potent antiviral and anti-inflammatory activity of 4-octyl-itaconate and dimethyl fumarate. Nature Communications, 2020, 11, 4938.	12.8	272
5	La-related Protein 1 (LARP1) Represses Terminal Oligopyrimidine (TOP) mRNA Translation Downstream of mTOR Complex 1 (mTORC1). Journal of Biological Chemistry, 2015, 290, 15996-16020.	3.4	198
6	Catching a resurgence: Increase in SARS-CoV-2 viral RNA identified in wastewater 48Âh before COVID-19 clinical tests and 96Âh before hospitalizations. Science of the Total Environment, 2021, 770, 145319.	8.0	159
7	Polysome Fractionation and Analysis of Mammalian Translatomes on a Genome-wide Scale. Journal of Visualized Experiments, 2014, , .	0.3	153
8	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.	3.4	141
9	eIF4E/4E-BP Ratio Predicts the Efficacy of mTOR Targeted Therapies. Cancer Research, 2012, 72, 6468-6476.	0.9	140
10	La-related protein 1 (LARP1) binds the mRNA cap, blocking eIF4F assembly on TOP mRNAs. ELife, 2017, 6, .	6.0	136
11	Translational control of the activation of transcription factor NF-ÎºB and production of type I interferon by phosphorylation of the translation factor eIF4E. Nature Immunology, 2012, 13, 543-550.	14.5	114
12	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, 1576-1581.	7.1	113
13	Smac mimetics synergize with immune checkpoint inhibitors to promote tumour immunity against glioblastoma. Nature Communications, 2017, 8, .	12.8	103
14	Targeting Human Medulloblastoma: Oncolytic Virotherapy with Myxoma Virus Is Enhanced by Rapamycin. Cancer Research, 2007, 67, 8818-8827.	0.9	97
15	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.	7.1	93
16	The ever-evolving role of mTOR in translation. Seminars in Cell and Developmental Biology, 2014, 36, 102-112.	5.0	91
17	Myxoma Virus Virotherapy for Glioma in Immunocompetent Animal Models: Optimizing Administration Routes and Synergy with Rapamycin. Cancer Research, 2010, 70, 598-608.	0.9	90
18	Virus-Tumor Interactome Screen Reveals ER Stress Response Can Reprogram Resistant Cancers for Oncolytic Virus-Triggered Caspase-2 Cell Death. Cancer Cell, 2011, 20, 443-456.	16.8	87

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19	S6K-STING interaction regulates cytosolic DNAâ€“mediated activation of the transcription factor IRF3. Nature Immunology, 2016, 17, 514-522.	14.5	67
20	LARP1 on TOP of ribosome production. Wiley Interdisciplinary Reviews RNA, 2018, 9, e1480.	6.4	60
21	Near real-time determination of B.1.1.7 in proportion to total SARS-CoV-2 viral load in wastewater using an allele-specific primer extension PCR strategy. Water Research, 2021, 205, 117681.	11.3	48
22	mTORC1 promotes TOP mRNA translation through site-specific phosphorylation of LARP1. Nucleic Acids Research, 2021, 49, 3461-3489.	14.5	47
23	The eIF2Î± Kinase GCN2 Modulates Period and Rhythmicity of the Circadian Clock by Translational Control of Atf4. Neuron, 2019, 104, 724-735.e6.	8.1	43
24	Microtubule disruption synergizes with oncolytic virotherapy by inhibiting interferon translation and potentiating bystander killing. Nature Communications, 2015, 6, 6410.	12.8	42
25	Translational control of ERK signaling through miRNA/4EHP-directed silencing. ELife, 2018, 7, .	6.0	41
26	Mutations in the IFNÎ³-JAK-STAT Pathway Causing Resistance to Immune Checkpoint Inhibitors in Melanoma Increase Sensitivity to Oncolytic Virus Treatment. Clinical Cancer Research, 2021, 27, 3432-3442.	7.0	40
27	Multifaceted Regulation of Somatic Cell Reprogramming by mRNA Translational Control. Cell Stem Cell, 2014, 14, 606-616.	11.1	39
28	Translation control during prolonged mTORC1 inhibition mediated by 4E-BP3. Nature Communications, 2016, 7, 11776.	12.8	37
29	Battling for Ribosomes: Translational Control at the Forefront of the Antiviral Response. Journal of Molecular Biology, 2018, 430, 1965-1992.	4.2	35
30	Translational control of nociception via 4E-binding protein 1. ELife, 2015, 4, .	6.0	34
31	Oncolytic Viruses on Drugs: Achieving Higher Therapeutic Efficacy. ACS Infectious Diseases, 2018, 4, 1448-1467.	3.8	27
32	A triple-drug nanotherapy to target breast cancer cells, cancer stem cells, and tumor vasculature. Cell Death and Disease, 2021, 12, 8.	6.3	25
33	UPF1 Governs Synaptic Plasticity through Association with a STAU2 RNA Granule. Journal of Neuroscience, 2017, 37, 9116-9131.	3.6	24
34	Translational profiling of macrophages infected with Leishmania donovani identifies mTOR- and eIF4A-sensitive immune-related transcripts. PLoS Pathogens, 2020, 16, e1008291.	4.7	24
35	microRNA-induced translational control of antiviral immunity by the cap-binding protein 4EHP. Molecular Cell, 2021, 81, 1187-1199.e5.	9.7	23
36	The Protozoan Parasite Toxoplasma gondii Selectively Reprograms the Host Cell Translatome. Infection and Immunity, 2018, 86, .	2.2	22

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37	Metformin requires 4E-BPs to induce apoptosis and repress translation of Mcl-1 in hepatocellular carcinoma cells. Oncotarget, 2017, 8, 50542-50556.	1.8	21
38	Active-site mTOR inhibitors augment HSV1-dICP0 infection in cancer cells via dysregulated eIF4E/4E-BP axis. PLoS Pathogens, 2018, 14, e1007264.	4.7	20
39	Deficiency in Either 4E-BP1 or 4E-BP2 Augments Innate Antiviral Immune Responses. PLoS ONE, 2014, 9, e114854.	2.5	19
40	Co-targeting Bulk Tumor and CSCs in Clinically Translatable TNBC Patient-Derived Xenografts via Combination Nanotherapy. Molecular Cancer Therapeutics, 2019, 18, 1755-1764.	4.1	17
41	Emerging translation strategies during virusâ€“host interaction. Wiley Interdisciplinary Reviews RNA, 2021, 12, e1619.	6.4	17
42	Antiviral Potential of the Antimicrobial Drug Atovaquone against SARS-CoV-2 and Emerging Variants of Concern. ACS Infectious Diseases, 2021, 7, 3034-3051.	3.8	17
43	miR-223 Exerts Translational Control of Proatherogenic Genes in Macrophages. Circulation Research, 2022, 131, 42-58.	4.5	17
44	Translational repression of Ccl5 and Cxcl10 by 4Eâ€BP1 and 4Eâ€BP2 restrains the ability of mouse macrophages to induce migration of activated TÂcells. European Journal of Immunology, 2019, 49, 1200-1212.	2.9	15
45	Induction of an Alternative mRNA 5â€² Leader Enhances Translation of the Ciliopathy Gene Inpp5e and Resistance to Oncolytic Virus Infection. Cell Reports, 2019, 29, 4010-4023.e5.	6.4	15
46	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
47	Ionizing Radiation and Translation Control: A Link to Radiation Hormesis?. International Journal of Molecular Sciences, 2020, 21, 6650.	4.1	13
48	4E-BPâ€“Dependent Translational Control of Irf8 Mediates Adipose Tissue Macrophage Inflammatory Response. Journal of Immunology, 2020, 204, 2392-2400.	0.8	11
49	Identification of pannexin 1-regulated genes, interactome, and pathways in rhabdomyosarcoma and its tumor inhibitory interaction with AHNAK. Oncogene, 2021, 40, 1868-1883.	5.9	11
50	Characterizing Cellular Responses During Oncolytic Maraba Virus Infection. International Journal of Molecular Sciences, 2019, 20, 580.	4.1	10
51	Polysome Profiling Analysis. Bio-protocol, 2013, 3, .	0.4	9
52	Transcriptional profiling of macrophages reveals distinct parasite stage-driven signatures during early infection by Leishmania donovani. Scientific Reports, 2022, 12, 6369.	3.3	9
53	Transcriptional induction of 4E-BP3 prolongs translation repression. Cell Cycle, 2016, 15, 3325-3326.	2.6	8
54	Kinase inhibitors with viral oncolysis: Unmasking pharmacoviral approaches for cancer therapy. Cytokine and Growth Factor Reviews, 2020, 56, 83-93.	7.2	5

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55	Autophagy in Tumor Immunity and Viral-Based Immunotherapeutic Approaches in Cancer. Cells, 2021, 10, 2672.	4.1	5
56	Identification of FDA-approved Bifonazole as SARS-CoV-2 blocking agent following a bioreporter drug screen. Molecular Therapy, 2022, , .	8.2	5
57	Foxo3a tempers excessive glutaminolysis in activated T cells to prevent fatal gut inflammation in the murine IL-10â^'/â^' model of colitis. Cell Death and Differentiation, 2022, 29, 585-599.	11.2	4
58	The highs and lows of ionizing radiation and its effects on protein synthesis. Cellular Signalling, 2022, 89, 110169.	3.6	4
59	Quercetin induces pannexin 1 expression via an alternative transcript with a translationally active 5â€² leader in rhabdomyosarcoma. Oncogenesis, 2022, 11, 9.	4.9	4
60	Nanoparticles Loaded with Wnt and YAP/Mevalonate Inhibitors in Combination with Paclitaxel Stop the Growth of TNBC Patientâ€Derived Xenografts and Diminish Tumorigenesis. Advanced Therapeutics, 2020, 3, 2000123.	3.2	1
61	Oncolytic viral immunotherapy in the time of COVID-19. Cytokine and Growth Factor Reviews, 2020, 56, 1-3.	7.2	0