

Tommy Alain

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

4,521
citations

196777

29
h-index

139680

61
g-index

65
all docs

65
docs citations

65
times ranked

8960
citing authors

#	ARTICLE	IF	CITATIONS
1	mTORC1 Controls Mitochondrial Activity and Biogenesis through 4E-BP-Dependent Translational Regulation. <i>Cell Metabolism</i> , 2013, 18, 698-711.	7.2	647
2	mTORC1-Mediated Cell Proliferation, But Not Cell Growth, Controlled by the 4E-BPs. <i>Science</i> , 2010, 328, 1172-1176.	6.0	624
3	Quantitative analysis of SARS-CoV-2 RNA from wastewater solids in communities with low COVID-19 incidence and prevalence. <i>Water Research</i> , 2021, 188, 116560.	5.3	297
4	SARS-CoV2-mediated suppression of NRF2-signaling reveals potent antiviral and anti-inflammatory activity of 4-octyl-itaconate and dimethyl fumarate. <i>Nature Communications</i> , 2020, 11, 4938.	5.8	272
5	La-related Protein 1 (LARP1) Represses Terminal Oligopyrimidine (TOP) mRNA Translation Downstream of mTOR Complex 1 (mTORC1). <i>Journal of Biological Chemistry</i> , 2015, 290, 15996-16020.	1.6	198
6	Catching a resurgence: Increase in SARS-CoV-2 viral RNA identified in wastewater 48h before COVID-19 clinical tests and 96h before hospitalizations. <i>Science of the Total Environment</i> , 2021, 770, 145319.	3.9	159
7	Polysome Fractionation and Analysis of Mammalian Translatomes on a Genome-wide Scale. <i>Journal of Visualized Experiments</i> , 2014, , .	0.2	153
8	Structure-Activity Analysis of Niclosamide Reveals Potential Role for Cytoplasmic pH in Control of Mammalian Target of Rapamycin Complex 1 (mTORC1) Signaling. <i>Journal of Biological Chemistry</i> , 2012, 287, 17530-17545.	1.6	141
9	eIF4E/4E-BP Ratio Predicts the Efficacy of mTOR Targeted Therapies. <i>Cancer Research</i> , 2012, 72, 6468-6476.	0.4	140
10	La-related protein 1 (LARP1) binds the mRNA cap, blocking eIF4F assembly on TOP mRNAs. <i>ELife</i> , 2017, 6, .	2.8	136
11	Translational control of the activation of transcription factor NF- κ B and production of type I interferon by phosphorylation of the translation factor eIF4E. <i>Nature Immunology</i> , 2012, 13, 543-550.	7.0	114
12	Vesicular stomatitis virus oncolysis is potentiated by impairing mTORC1-dependent type I IFN production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1576-1581.	3.3	113
13	Smac mimetics synergize with immune checkpoint inhibitors to promote tumour immunity against glioblastoma. <i>Nature Communications</i> , 2017, 8, .	5.8	103
14	Targeting Human Medulloblastoma: Oncolytic Virotherapy with Myxoma Virus Is Enhanced by Rapamycin. <i>Cancer Research</i> , 2007, 67, 8818-8827.	0.4	97
15	Cap-binding protein 4EHP effects translation silencing by microRNAs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 5425-5430.	3.3	93
16	The ever-evolving role of mTOR in translation. <i>Seminars in Cell and Developmental Biology</i> , 2014, 36, 102-112.	2.3	91
17	Myxoma Virus Virotherapy for Glioma in Immunocompetent Animal Models: Optimizing Administration Routes and Synergy with Rapamycin. <i>Cancer Research</i> , 2010, 70, 598-608.	0.4	90
18	Virus-Tumor Interactome Screen Reveals ER Stress Response Can Reprogram Resistant Cancers for Oncolytic Virus-Triggered Caspase-2 Cell Death. <i>Cancer Cell</i> , 2011, 20, 443-456.	7.7	87

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19	S6K-STING interaction regulates cytosolic DNA-mediated activation of the transcription factor IRF3. <i>Nature Immunology</i> , 2016, 17, 514-522.	7.0	67
20	LARP1 on TOP of ribosome production. <i>Wiley Interdisciplinary Reviews RNA</i> , 2018, 9, e1480.	3.2	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. <i>Water Research</i> , 2021, 205, 117681.	5.3	48
22	mTORC1 promotes TOP mRNA translation through site-specific phosphorylation of LARP1. <i>Nucleic Acids Research</i> , 2021, 49, 3461-3489.	6.5	47
23	The eIF2 γ Kinase GCN2 Modulates Period and Rhythmicity of the Circadian Clock by Translational Control of Atf4. <i>Neuron</i> , 2019, 104, 724-735.e6.	3.8	43
24	Microtubule disruption synergizes with oncolytic virotherapy by inhibiting interferon translation and potentiating bystander killing. <i>Nature Communications</i> , 2015, 6, 6410.	5.8	42
25	Translational control of ERK signaling through miRNA/4EHP-directed silencing. <i>ELife</i> , 2018, 7, .	2.8	41
26	Mutations in the IFN γ -JAK-STAT Pathway Causing Resistance to Immune Checkpoint Inhibitors in Melanoma Increase Sensitivity to Oncolytic Virus Treatment. <i>Clinical Cancer Research</i> , 2021, 27, 3432-3442.	3.2	40
27	Multifaceted Regulation of Somatic Cell Reprogramming by mRNA Translational Control. <i>Cell Stem Cell</i> , 2014, 14, 606-616.	5.2	39
28	Translation control during prolonged mTORC1 inhibition mediated by 4E-BP3. <i>Nature Communications</i> , 2016, 7, 11776.	5.8	37
29	Battling for Ribosomes: Translational Control at the Forefront of the Antiviral Response. <i>Journal of Molecular Biology</i> , 2018, 430, 1965-1992.	2.0	35
30	Translational control of nociception via 4E-binding protein 1. <i>ELife</i> , 2015, 4, .	2.8	34
31	Oncolytic Viruses on Drugs: Achieving Higher Therapeutic Efficacy. <i>ACS Infectious Diseases</i> , 2018, 4, 1448-1467.	1.8	27
32	A triple-drug nanotherapy to target breast cancer cells, cancer stem cells, and tumor vasculature. <i>Cell Death and Disease</i> , 2021, 12, 8.	2.7	25
33	UPF1 Governs Synaptic Plasticity through Association with a STAU2 RNA Granule. <i>Journal of Neuroscience</i> , 2017, 37, 9116-9131.	1.7	24
34	Translational profiling of macrophages infected with <i>Leishmania donovani</i> identifies mTOR- and eIF4A-sensitive immune-related transcripts. <i>PLoS Pathogens</i> , 2020, 16, e1008291.	2.1	24
35	microRNA-induced translational control of antiviral immunity by the cap-binding protein 4EHP. <i>Molecular Cell</i> , 2021, 81, 1187-1199.e5.	4.5	23
36	The Protozoan Parasite <i>Toxoplasma gondii</i> Selectively Reprograms the Host Cell Translatome. <i>Infection and Immunity</i> , 2018, 86, .	1.0	22

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37	Metformin requires 4E-BPs to induce apoptosis and repress translation of Mcl-1 in hepatocellular carcinoma cells. <i>Oncotarget</i> , 2017, 8, 50542-50556.	0.8	21
38	Active-site mTOR inhibitors augment HSV1-dICPO infection in cancer cells via dysregulated eIF4E/4E-BP axis. <i>PLoS Pathogens</i> , 2018, 14, e1007264.	2.1	20
39	Deficiency in Either 4E-BP1 or 4E-BP2 Augments Innate Antiviral Immune Responses. <i>PLoS ONE</i> , 2014, 9, e114854.	1.1	19
40	Co-targeting Bulk Tumor and CSCs in Clinically Translatable TNBC Patient-Derived Xenografts via Combination Nanotherapy. <i>Molecular Cancer Therapeutics</i> , 2019, 18, 1755-1764.	1.9	17
41	Emerging translation strategies during virus-host interaction. <i>Wiley Interdisciplinary Reviews RNA</i> , 2021, 12, e1619.	3.2	17
42	Antiviral Potential of the Antimicrobial Drug Atovaquone against SARS-CoV-2 and Emerging Variants of Concern. <i>ACS Infectious Diseases</i> , 2021, 7, 3034-3051.	1.8	17
43	miR-223 Exerts Translational Control of Proatherogenic Genes in Macrophages. <i>Circulation Research</i> , 2022, 131, 42-58.	2.0	17
44	Translational repression of <i>Ccl5</i> and <i>Cxcl10</i> by 4E-BP1 and 4E-BP2 restrains the ability of mouse macrophages to induce migration of activated T cells. <i>European Journal of Immunology</i> , 2019, 49, 1200-1212.	1.6	15
45	Induction of an Alternative mRNA 5' Leader Enhances Translation of the Ciliopathy Gene <i>Inpp5e</i> and Resistance to Oncolytic Virus Infection. <i>Cell Reports</i> , 2019, 29, 4010-4023.e5.	2.9	15
46	eIF4E-Binding Proteins 1 and 2 Limit Macrophage Anti-Inflammatory Responses through Translational Repression of IL-10 and Cyclooxygenase-2. <i>Journal of Immunology</i> , 2018, 200, 4102-4116.	0.4	14
47	Ionizing Radiation and Translation Control: A Link to Radiation Hormesis?. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6650.	1.8	13
48	4E-BP1-Dependent Translational Control of <i>Irf8</i> Mediates Adipose Tissue Macrophage Inflammatory Response. <i>Journal of Immunology</i> , 2020, 204, 2392-2400.	0.4	11
49	Identification of pannexin 1-regulated genes, interactome, and pathways in rhabdomyosarcoma and its tumor inhibitory interaction with AHNAK. <i>Oncogene</i> , 2021, 40, 1868-1883.	2.6	11
50	Characterizing Cellular Responses During Oncolytic Maraba Virus Infection. <i>International Journal of Molecular Sciences</i> , 2019, 20, 580.	1.8	10
51	Polysome Profiling Analysis. <i>Bio-protocol</i> , 2013, 3, .	0.2	9
52	Transcriptional profiling of macrophages reveals distinct parasite stage-driven signatures during early infection by <i>Leishmania donovani</i> . <i>Scientific Reports</i> , 2022, 12, 6369.	1.6	9
53	Transcriptional induction of 4E-BP3 prolongs translation repression. <i>Cell Cycle</i> , 2016, 15, 3325-3326.	1.3	8
54	Kinase inhibitors with viral oncolysis: Unmasking pharmacoviral approaches for cancer therapy. <i>Cytokine and Growth Factor Reviews</i> , 2020, 56, 83-93.	3.2	5

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55	Autophagy in Tumor Immunity and Viral-Based Immunotherapeutic Approaches in Cancer. <i>Cells</i> , 2021, 10, 2672.	1.8	5
56	Identification of FDA-approved Bifonazole as SARS-CoV-2 blocking agent following a bioreporter drug screen. <i>Molecular Therapy</i> , 2022, , .	3.7	5
57	Foxo3a tempers excessive glutaminolysis in activated T cells to prevent fatal gut inflammation in the murine IL-10 ^{hi} / ^{lo} model of colitis. <i>Cell Death and Differentiation</i> , 2022, 29, 585-599.	5.0	4
58	The highs and lows of ionizing radiation and its effects on protein synthesis. <i>Cellular Signalling</i> , 2022, 89, 110169.	1.7	4
59	Quercetin induces pannexin 1 expression via an alternative transcript with a translationally active 5' leader in rhabdomyosarcoma. <i>Oncogenesis</i> , 2022, 11, 9.	2.1	4
60	Nanoparticles Loaded with Wnt and YAP/Mevalonate Inhibitors in Combination with Paclitaxel Stop the Growth of TNBC Patient-Derived Xenografts and Diminish Tumorigenesis. <i>Advanced Therapeutics</i> , 2020, 3, 2000123.	1.6	1
61	Oncolytic viral immunotherapy in the time of COVID-19. <i>Cytokine and Growth Factor Reviews</i> , 2020, 56, 1-3.	3.2	0