# Curt M Horvath

## List of Publications by Year in Descending Order



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| 83 papers | 11,190 citations | 54 h-index | 85 g-index |
| 85 ext. papers | 12,080 ext. citations | 9 avg, IF | 6.35 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 83 | The Human STAT2 Coiled-Coil Domain Contains a Degron for Zika Virus Interferon Evasion. *Journal of Virology*, **2021**, JVI0130121 | 6.6 | 3 |
| 82 | Immune regulator LGP2 targets Ubc13/UBE2N to mediate widespread interference with K63 polyubiquitination and NF-B activation.. *Cell Reports*, **2021**, 37, 110175 | 10.6 | 0 |
| 81 | RNA Helicase LGP2 Negatively Regulates RIG-I Signaling by Preventing TRIM25-Mediated Caspase Activation and Recruitment Domain Ubiquitination. *Journal of Interferon and Cytokine Research*, **2019**, 39, 669-683 | 3.5 | 14 |
| 80 | RNA sensor LGP2 inhibits TRAF ubiquitin ligase to negatively regulate innate immune signaling. *EMBO Reports*, **2018**, 19, | 6.5 | 28 |
| 79 | Histone H2A.Z Suppression of Interferon-Stimulated Transcription and Antiviral Immunity Is Modulated by GCN5 and BRD2. *IScience*, **2018**, 6, 68-82 | 6.1 | 22 |
| 78 | Constitutively Active MDA5 Proteins Are Inhibited by Paramyxovirus V Proteins. *Journal of Interferon and Cytokine Research*, **2018**, 38, 319-332 | 3.5 | 5 |
| 77 | Deep sequencing of HIV-1 reverse transcripts reveals the multifaceted antiviral functions of APOBEC3G. *Nature Microbiology*, **2018**, 3, 220-233 | 26.6 | 55 |
| 76 | Sendai Virus Infection Induces Expression of Novel RNAs in Human Cells. *Scientific Reports*, **2018**, 8, 16815 | 4.9 | 2 |
| 75 | IFN-inducible antiviral responses require ULK1-mediated activation of MLK3 and ERK5. *Science Signaling*, **2018**, 11, | 8.8 | 7 |
| 74 | Transcriptional and chromatin regulation in interferon and innate antiviral gene expression. *Cytokine and Growth Factor Reviews*, **2018**, 44, 11-17 | 17.9 | 21 |
| 73 | The TAR-RNA binding protein is required for immunoresponses triggered by Cardiovirus infection. *Biochemical and Biophysical Research Communications*, **2016**, 480, 187-193 | 3.4 | 19 |
| 72 | A serpin takes a bite out of the flu. *Cell Host and Microbe*, **2015**, 17, 283-284 | 23.4 | |
| 71 | LGP2 synergy with MDA5 in RLR-mediated RNA recognition and antiviral signaling. *Cytokine*, **2015**, 74, 198-206 | 4 | 69 |
| 70 | Pan-cancer analysis of TCGA data reveals notable signaling pathways. *BMC Cancer*, **2015**, 15, 516 | 4.8 | 23 |
| 69 | Antiviral RNA recognition and assembly by RLR family innate immune sensors. *Cytokine and Growth Factor Reviews*, **2014**, 25, 507-12 | 17.9 | 54 |
| 68 | Bioinformatic analysis reveals a pattern of STAT3-associated gene expression specific to basal-like breast cancers in human tumors. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 12787-92 | 11.5 | 41 |
| 67 | MDA5 and LGP2: accomplices and antagonists of antiviral signal transduction. *Journal of Virology*, **2014**, 88, 8194-200 | 6.6 | 81 |

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| 66 | High-density nucleosome occupancy map of human chromosome 9p21-22 reveals chromatin organization of the type I interferon gene cluster. *Journal of Interferon and Cytokine Research*, **2014**, 34, 676-85 | 3.5 | 11 |
| 65 | The innate immune sensor LGP2 activates antiviral signaling by regulating MDA5-RNA interaction and filament assembly. *Molecular Cell*, **2014**, 55, 771-81 | 17.6 | 168 |
| 64 | Paramyxovirus V protein interaction with the antiviral sensor LGP2 disrupts MDA5 signaling enhancement but is not relevant to LGP2-mediated RLR signaling inhibition. *Journal of Virology*, **2014**, 88, 8180-8 | 6.6 | 31 |
| 63 | Extensive cooperation of immune master regulators IRF3 and NFB in RNA Pol II recruitment and pause release in human innate antiviral transcription. *Cell Reports*, **2013**, 4, 959-73 | 10.6 | 57 |
| 62 | A conserved role for human Nup98 in altering chromatin structure and promoting epigenetic transcriptional memory. *PLoS Biology*, **2013**, 11, e1001524 | 9.7 | 121 |
| 61 | Amino acid requirements for MDA5 and LGP2 recognition by paramyxovirus V proteins: a single arginine distinguishes MDA5 from RIG-I. *Journal of Virology*, **2013**, 87, 2974-8 | 6.6 | 26 |
| 60 | MicroRNA profiling of Sendai virus-infected A549 cells identifies miR-203 as an interferon-inducible regulator of IFIT1/ISG56. *Journal of Virology*, **2013**, 87, 9260-70 | 6.6 | 25 |
| 59 | Transcriptional regulation by STAT1 and STAT2 in the interferon JAK-STAT pathway. *Jak-stat*, **2013**, 2, e23931 | | 136 |
| 58 | ATP hydrolysis enhances RNA recognition and antiviral signal transduction by the innate immune sensor, laboratory of genetics and physiology 2 (LGP2). *Journal of Biological Chemistry*, **2013**, 288, 938-46 | 5.4 | 62 |
| 57 | Small RNA profiling of influenza A virus-infected cells identifies miR-449b as a regulator of histone deacetylase 1 and interferon beta. *PLoS ONE*, **2013**, 8, e76560 | 3.7 | 36 |
| 56 | Activation of RIG-I-like receptor signal transduction. *Critical Reviews in Biochemistry and Molecular Biology*, **2012**, 47, 194-206 | 8.7 | 66 |
| 55 | Activation and Inhibition of JAK-STAT Signal Transduction by RNA Viruses **2012**, 371-385 | | |
| 54 | Influenza A virus infection of human respiratory cells induces primary microRNA expression. *Journal of Biological Chemistry*, **2012**, 287, 31027-40 | 5.4 | 93 |
| 53 | Impaired cellular responses to cytosolic DNA or infection with Listeria monocytogenes and vaccinia virus in the absence of the murine LGP2 protein. *PLoS ONE*, **2011**, 6, e18842 | 3.7 | 32 |
| 52 | Dissociation of paramyxovirus interferon evasion activities: universal and virus-specific requirements for conserved V protein amino acids in MDA5 interference. *Journal of Virology*, **2010**, 84, 11152-63 | 6.6 | 53 |
| 51 | A point mutation, E95D, in the mumps virus V protein disengages STAT3 targeting from STAT1 targeting. *Journal of Virology*, **2009**, 83, 6347-56 | 6.6 | 22 |
| 50 | A shared interface mediates paramyxovirus interference with antiviral RNA helicases MDA5 and LGP2. *Journal of Virology*, **2009**, 83, 7252-60 | 6.6 | 94 |
| 49 | Regulation of signal transduction by enzymatically inactive antiviral RNA helicase proteins MDA5, RIG-I, and LGP2. *Journal of Biological Chemistry*, **2009**, 284, 9700-12 | 5.4 | 126 |

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| 48 | Paramyxovirus disruption of interferon signal transduction: STATus report. *Journal of Interferon and Cytokine Research*, **2009**, 29, 531-7 | 3.5 | 56 |
| 47 | Regulating immune response using polyvalent nucleic acid-gold nanoparticle conjugates. *Molecular Pharmaceutics*, **2009**, 6, 1934-40 | 5.6 | 118 |
| 46 | The tumour suppressor CYLD is a negative regulator of RIG-I-mediated antiviral response. *EMBO Reports*, **2008**, 9, 930-6 | 6.5 | 249 |
| 45 | Negative regulation of cytoplasmic RNA-mediated antiviral signaling. *Cytokine*, **2008**, 43, 350-8 | 4 | 104 |
| 44 | Enabled interferon signaling evasion in an immune-competent transgenic mouse model of parainfluenza virus 5 infection. *Virology*, **2008**, 371, 196-205 | 3.6 | 19 |
| 43 | STAT2 is a primary target for measles virus V protein-mediated alpha/beta interferon signaling inhibition. *Journal of Virology*, **2008**, 82, 8330-8 | 6.6 | 94 |
| 42 | Select paramyxoviral V proteins inhibit IRF3 activation by acting as alternative substrates for inhibitor of kappaB kinase epsilon (IKKe)/TBK1. *Journal of Biological Chemistry*, **2008**, 283, 14269-76 | 5.4 | 80 |
| 41 | Henipavirus V protein association with Polo-like kinase reveals functional overlap with STAT1 binding and interferon evasion. *Journal of Virology*, **2008**, 82, 6259-71 | 6.6 | 29 |
| 40 | Positive and negative regulation of the innate antiviral response and beta interferon gene expression by deacetylation. *Molecular and Cellular Biology*, **2006**, 26, 3106-13 | 4.8 | 116 |
| 39 | Measles virus V protein inhibits p53 family member p73. *Journal of Virology*, **2006**, 80, 5644-50 | 6.6 | 38 |
| 38 | RNA- and virus-independent inhibition of antiviral signaling by RNA helicase LGP2. *Journal of Virology*, **2006**, 80, 12332-42 | 6.6 | 228 |
| 37 | A novel role for viral-defective interfering particles in enhancing dendritic cell maturation. *Journal of Immunology*, **2006**, 177, 4503-13 | 5.3 | 82 |
| 36 | Carbonyl- and sulfur-containing analogs of suberoylanilide hydroxamic acid: Potent inhibition of histone deacetylases. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 3320-9 | 3.4 | 42 |
| 35 | Histone deacetylases as transcriptional activators? Role reversal in inducible gene regulation. *Science Signaling*, **2005**, 2005, re11 | 8.8 | 54 |
| 34 | Unexpected roles for deacetylation in interferon- and cytokine-induced transcription. *Journal of Interferon and Cytokine Research*, **2005**, 25, 745-8 | 3.5 | 19 |
| 33 | Composition and assembly of STAT-targeting ubiquitin ligase complexes: paramyxovirus V protein carboxyl terminus is an oligomerization domain. *Journal of Virology*, **2005**, 79, 10180-9 | 6.6 | 94 |
| 32 | Identification of the nuclear export signal and STAT-binding domains of the Nipah virus V protein reveals mechanisms underlying interferon evasion. *Journal of Virology*, **2004**, 78, 5358-67 | 6.6 | 116 |
| 31 | Host evasion by emerging paramyxoviruses: Hendra virus and Nipah virus v proteins inhibit interferon signaling. *Viral Immunology*, **2004**, 17, 210-9 | 1.7 | 56 |

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| 30 | Weapons of STAT destruction. Interferon evasion by paramyxovirus V protein. *FEBS Journal*, **2004**, 271, 4621-8 | | 138 |
| 29 | Silencing STATs: lessons from paramyxovirus interferon evasion. *Cytokine and Growth Factor Reviews*, **2004**, 15, 117-27 | 17.9 | 81 |
| 28 | STAT protein interference and suppression of cytokine signal transduction by measles virus V protein. *Journal of Virology*, **2003**, 77, 7635-44 | 6.6 | 234 |
| 27 | Hendra virus V protein inhibits interferon signaling by preventing STAT1 and STAT2 nuclear accumulation. *Journal of Virology*, **2003**, 77, 11842-5 | 6.6 | 128 |
| 26 | SUMO modification of STAT1 and its role in PIAS-mediated inhibition of gene activation. *Journal of Biological Chemistry*, **2003**, 278, 30091-7 | 5.4 | 121 |
| 25 | A hybrid IRF9-STAT2 protein recapitulates interferon-stimulated gene expression and antiviral response. *Journal of Biological Chemistry*, **2003**, 278, 13033-8 | 5.4 | 76 |
| 24 | STAT3 ubiquitylation and degradation by mumps virus suppress cytokine and oncogene signaling. *Journal of Virology*, **2003**, 77, 6385-93 | 6.6 | 154 |
| 23 | Role of metazoan mediator proteins in interferon-responsive transcription. *Molecular and Cellular Biology*, **2003**, 23, 620-8 | 4.8 | 62 |
| 22 | Interferon-stimulated transcription and innate antiviral immunity require deacetylase activity and histone deacetylase 1. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 14742-7 | 11.5 | 224 |
| 21 | Paramyxoviruses SV5 and HPIV2 assemble STAT protein ubiquitin ligase complexes from cellular components. *Virology*, **2002**, 304, 160-6 | 3.6 | 195 |
| 20 | A road map for those who don't know JAK-STAT. *Science*, **2002**, 296, 1653-5 | 33.3 | 1004 |
| 19 | STAT2 acts as a host range determinant for species-specific paramyxovirus interferon antagonism and simian virus 5 replication. *Journal of Virology*, **2002**, 76, 6435-41 | 6.6 | 100 |
| 18 | Effects of influenza A virus NS1 protein on protein expression: the NS1 protein enhances translation and is not required for shutoff of host protein synthesis. *Journal of Virology*, **2002**, 76, 1206-12 | 6.6 | 95 |
| 17 | Selective STAT protein degradation induced by paramyxoviruses requires both STAT1 and STAT2 but is independent of alpha/beta interferon signal transduction. *Journal of Virology*, **2002**, 76, 4190-8 | 6.6 | 126 |
| 16 | Nipah virus V protein evades alpha and gamma interferons by preventing STAT1 and STAT2 activation and nuclear accumulation. *Journal of Virology*, **2002**, 76, 11476-83 | 6.6 | 226 |
| 15 | Mechanisms of Type I interferon cell signaling and STAT-mediated transcriptional responses. *Mount Sinai Journal of Medicine*, **2002**, 69, 156-68 | | 20 |
| 14 | TYK2 and JAK2 are substrates of protein-tyrosine phosphatase 1B. *Journal of Biological Chemistry*, **2001**, 276, 47771-4 | 5.4 | 330 |
| 13 | The V protein of human parainfluenza virus 2 antagonizes type I interferon responses by destabilizing signal transducer and activator of transcription 2. *Virology*, **2001**, 283, 230-9 | 3.6 | 199 |

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| 12 | DNA binding specificity of different STAT proteins. Comparison of in vitro specificity with natural target sites. *Journal of Biological Chemistry*, **2001**, 276, 6675-88 | 5.4 | 299 |
| 11 | Cooperation between STAT3 and c-jun suppresses Fas transcription. *Molecular Cell*, **2001**, 7, 517-28 | 17.6 | 207 |
| 10 | STAT proteins and transcriptional responses to extracellular signals. *Trends in Biochemical Sciences*, **2000**, 25, 496-502 | 10.3 | 368 |
| 9 | Activation of interferon regulatory factor 3 is inhibited by the influenza A virus NS1 protein. *Journal of Virology*, **2000**, 74, 7989-96 | 6.6 | 482 |
| 8 | Stat3-mediated transformation of NIH-3T3 cells by the constitutively active Q205L Galphao protein. *Science*, **2000**, 287, 142-4 | 33.3 | 104 |
| 7 | Interacting regions in Stat3 and c-Jun that participate in cooperative transcriptional activation. *Molecular and Cellular Biology*, **1999**, 19, 7138-46 | 4.8 | 190 |
| 6 | Stat3 activation is required for cellular transformation by v-src. *Molecular and Cellular Biology*, **1998** , 18, 2553-8 | 4.8 | 581 |
| 5 | Defective TNF-alpha-induced apoptosis in STAT1-null cells due to low constitutive levels of caspases. *Science*, **1997**, 278, 1630-2 | 33.3 | 446 |
| 4 | The state of the STATs: recent developments in the study of signal transduction to the nucleus. *Current Opinion in Cell Biology*, **1997**, 9, 233-9 | 9 | 173 |
| 3 | Leptin activation of Stat3 in the hypothalamus of wild-type and ob/ob mice but not db/db mice. *Nature Genetics*, **1996**, 14, 95-7 | 36.3 | 903 |
| 2 | Interferon activation of the transcription factor Stat91 involves dimerization through SH2-phosphotyrosyl peptide interactions. *Cell*, **1994**, 76, 821-8 | 56.2 | 725 |
| 1 | The Human STAT2 Coiled-Coil Domain Contains a Degron for Zika Virus Interferon Evasion | | 1 |