

# Carolyn B Coyne

## List of Publications by Year in descending order

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99  
papers

12,939  
citations

44069

48  
h-index

37204

96  
g-index

147  
all docs

147  
docs citations

147  
times ranked

23671  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016, 12, 1-222.	9.1	4,701
2	Virus-Induced Abl and Fyn Kinase Signals Permit Coxsackievirus Entry through Epithelial Tight Junctions. <i>Cell</i> , 2006, 124, 119-131.	28.9	484
3	Type III Interferons Produced by Human Placental Trophoblasts Confer Protection against Zika Virus Infection. <i>Cell Host and Microbe</i> , 2016, 19, 705-712.	11.0	464
4	Human placental trophoblasts confer viral resistance to recipient cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 12048-12053.	7.1	398
5	Immune responses at the maternal-fetal interface. <i>Science Immunology</i> , 2019, 4, .	11.9	380
6	Tight Junction Proteins Claudin-1 and Occludin Control Hepatitis C Virus Entry and Are Downregulated during Infection To Prevent Superinfection. <i>Journal of Virology</i> , 2009, 83, 2011-2014.	3.4	303
7	Zika virus “reigniting the TORCH. <i>Nature Reviews Microbiology</i> , 2016, 14, 707-715.	28.6	293
8	Microbial Vertical Transmission during Human Pregnancy. <i>Cell Host and Microbe</i> , 2017, 21, 561-567.	11.0	280
9	The Coxsackievirus B 3Cpro Protease Cleaves MAVS and TRIF to Attenuate Host Type I Interferon and Apoptotic Signaling. <i>PLoS Pathogens</i> , 2011, 7, e1001311.	4.7	249
10	Coxsackievirus Entry across Epithelial Tight Junctions Requires Occludin and the Small GTPases Rab34 and Rab5. <i>Cell Host and Microbe</i> , 2007, 2, 181-192.	11.0	213
11	Type I interferons instigate fetal demise after Zika virus infection. <i>Science Immunology</i> , 2018, 3, .	11.9	212
12	CAR: A virus receptor within the tight junction. <i>Advanced Drug Delivery Reviews</i> , 2005, 57, 869-882.	13.7	210
13	Antiviral Activity of Human OASL Protein Is Mediated by Enhancing Signaling of the RIG-I RNA Sensor. <i>Immunity</i> , 2014, 40, 936-948.	14.3	201
14	MicroRNAs in placental health and disease. <i>American Journal of Obstetrics and Gynecology</i> , 2015, 213, S163-S172.	1.3	165
15	Infections at the maternal-fetal interface: an overview of pathogenesis and defence. <i>Nature Reviews Microbiology</i> , 2022, 20, 67-82.	28.6	161
16	Dengue and Zika viruses subvert reticulophagy by NS2B3-mediated cleavage of FAM134B. <i>Autophagy</i> , 2017, 13, 322-332.	9.1	152
17	Mechanisms of MAVS Regulation at the Mitochondrial Membrane. <i>Journal of Molecular Biology</i> , 2013, 425, 5009-5019.	4.2	149
18	Respiratory syncytial virus infection enhances <i>Pseudomonas aeruginosa</i> biofilm growth through dysregulation of nutritional immunity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 1642-1647.	7.1	144

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19	Screening Bioactives Reveals Nanchangmycin as a Broad Spectrum Antiviral Active against Zika Virus. <i>Cell Reports</i> , 2017, 18, 804-815.	6.4	144
20	Gestational Stage and IFN- $\lambda$ Signaling Regulate ZIKV Infection In Utero. <i>Cell Host and Microbe</i> , 2017, 22, 366-376.e3.	11.0	137
21	Enteroviruses infect human enteroids and induce antiviral signaling in a cell lineage-specific manner. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1672-1677.	7.1	122
22	Poliovirus entry into human brain microvascular cells requires receptor-induced activation of SHP-2. <i>EMBO Journal</i> , 2007, 26, 4016-4028.	7.8	115
23	COPI Activity Coupled with Fatty Acid Biosynthesis Is Required for Viral Replication. <i>PLoS Pathogens</i> , 2006, 2, e102.	4.7	111
24	The Coxsackievirus and Adenovirus Receptor Interacts with the Multi-PDZ Domain Protein-1 (MUPP-1) within the Tight Junction. <i>Journal of Biological Chemistry</i> , 2004, 279, 48079-48084.	3.4	109
25	Modeling Host-Pathogen Interactions in the Context of the Microenvironment: Three-Dimensional Cell Culture Comes of Age. <i>Infection and Immunity</i> , 2018, 86, .	2.2	108
26	Cross-Reactive Dengue Virus Antibodies Augment Zika Virus Infection of Human Placental Macrophages. <i>Cell Host and Microbe</i> , 2018, 24, 731-742.e6.	11.0	107
27	Type III Interferons in Antiviral Defenses at Barrier Surfaces. <i>Trends in Immunology</i> , 2018, 39, 848-858.	6.8	100
28	The Placenta as a Barrier to Viral Infections. <i>Annual Review of Virology</i> , 2014, 1, 133-146.	6.7	96
29	Correlation of the Tight Junction-like Distribution of Claudin-1 to the Cellular Tropism of Hepatitis C Virus. <i>Journal of Biological Chemistry</i> , 2008, 283, 8643-8653.	3.4	95
30	Human trophoblasts confer resistance to viruses implicated in perinatal infection. <i>American Journal of Obstetrics and Gynecology</i> , 2015, 212, 71.e1-71.e8.	1.3	92
31	A three-dimensional culture system recapitulates placental syncytiotrophoblast development and microbial resistance. <i>Science Advances</i> , 2016, 2, e1501462.	10.3	86
32	Zika virus-related neurotropic flaviviruses infect human placental explants and cause fetal demise in mice. <i>Science Translational Medicine</i> , 2018, 10, .	12.4	85
33	Interferon lambda protects the female reproductive tract against Zika virus infection. <i>Nature Communications</i> , 2019, 10, 280.	12.8	83
34	Isolation of human trophoblastic extracellular vesicles and characterization of their cargo and antiviral activity. <i>Placenta</i> , 2016, 47, 86-95.	1.5	82
35	Organotypic models of type III interferon-mediated protection from Zika virus infections at the maternal-fetal interface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 9433-9438.	7.1	79
36	Type III interferon signaling restricts enterovirus 71 infection of goblet cells. <i>Science Advances</i> , 2019, 5, eaau4255.	10.3	77

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37	Innate immune signaling through differential RIPK1 expression promote tumor progression in head and neck squamous cell carcinoma. <i>Carcinogenesis</i> , 2016, 37, 522-529.	2.8	75
38	Enteroviruses: A Gut-Wrenching Game of Entry, Detection, and Evasion. <i>Viruses</i> , 2019, 11, 460.	3.3	67
39	Comparative RNAi Screening Reveals Host Factors Involved in Enterovirus Infection of Polarized Endothelial Monolayers. <i>Cell Host and Microbe</i> , 2011, 9, 70-82.	11.0	65
40	The Function of TrophomiRs and Other MicroRNAs in the Human Placenta. <i>Cold Spring Harbor Perspectives in Medicine</i> , 2015, 5, a023036.	6.2	64
41	Catch Me If You Can: The Link between Autophagy and Viruses. <i>PLoS Pathogens</i> , 2015, 11, e1004685.	4.7	60
42	MOV10 Provides Antiviral Activity against RNA Viruses by Enhancing RIG-I–MAVS-Independent IFN Induction. <i>Journal of Immunology</i> , 2016, 196, 3877-3886.	0.8	60
43	RIP3 Regulates Autophagy and Promotes Coxsackievirus B3 Infection of Intestinal Epithelial Cells. <i>Cell Host and Microbe</i> , 2015, 18, 221-232.	11.0	59
44	A standardized definition of placental infection by SARS-CoV-2, a consensus statement from the National Institutes of Health/Eunice Kennedy Shriver National Institute of Child Health and Human Development SARS-CoV-2 Placental Infection Workshop. <i>American Journal of Obstetrics and Gynecology</i> , 2021, 225, 593-599.e2.	1.3	59
45	Dynammin- and Lipid Raft-Dependent Entry of Decay-Accelerating Factor (DAF)-Binding and Non-DAF-Binding Coxsackieviruses into Nonpolarized Cells. <i>Journal of Virology</i> , 2009, 83, 11064-11077.	3.4	58
46	Release of Intracellular Calcium Stores Facilitates Coxsackievirus Entry into Polarized Endothelial Cells. <i>PLoS Pathogens</i> , 2010, 6, e1001135.	4.7	54
47	Human Placental Syncytiotrophoblasts Restrict <i>Toxoplasma gondii</i> Attachment and Replication and Respond to Infection by Producing Immunomodulatory Chemokines. <i>MBio</i> , 2018, 9, .	4.1	54
48	Autophagy as a mechanism of antiviral defense at the maternal–fetal interface. <i>Autophagy</i> , 2013, 9, 2173-2174.	9.1	50
49	The Actin Cytoskeleton as a Barrier to Virus Infection of Polarized Epithelial Cells. <i>Viruses</i> , 2011, 3, 2462-2477.	3.3	49
50	Picornavirus Entry. <i>Advances in Experimental Medicine and Biology</i> , 2013, 790, 24-41.	1.6	47
51	The neonatal Fc receptor is a pan-echovirus receptor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3758-3763.	7.1	47
52	Focal Adhesion Kinase Is a Component of Antiviral RIG-I-like Receptor Signaling. <i>Cell Host and Microbe</i> , 2012, 11, 153-166.	11.0	43
53	Retinoic Acid-induced Gene-I (RIG-I) Associates with Nucleotide-binding Oligomerization Domain-2 (NOD2) to Negatively Regulate Inflammatory Signaling. <i>Journal of Biological Chemistry</i> , 2011, 286, 28574-28583.	3.4	42
54	Calcium signals and calpain-dependent necrosis are essential for release of coxsackievirus B from polarized intestinal epithelial cells. <i>Molecular Biology of the Cell</i> , 2011, 22, 3010-3021.	2.1	42

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55	A Three-Dimensional Cell Culture System To Model RNA Virus Infections at the Blood-Brain Barrier. <i>MSphere</i> , 2017, 2, .	2.9	42
56	A Three-Dimensional Cell Culture Model To Study Enterovirus Infection of Polarized Intestinal Epithelial Cells. <i>MSphere</i> , 2016, 1, .	2.9	41
57	Mechanisms of Zika Virus Infection and Neuropathogenesis. <i>DNA and Cell Biology</i> , 2016, 35, 367-372.	1.9	40
58	Chromosome 19 microRNAs exert antiviral activity independent from type III interferon signaling. <i>Placenta</i> , 2018, 61, 33-38.	1.5	40
59	Rift Valley fever virus induces fetal demise in Sprague-Dawley rats through direct placental infection. <i>Science Advances</i> , 2018, 4, eaau9812.	10.3	39
60	The expression level of C19MC miRNAs in early pregnancy and in response to viral infection. <i>Placenta</i> , 2017, 53, 23-29.	1.5	37
61	Inflammasome signaling in human placental trophoblasts regulates immune defense against <i>Listeria monocytogenes</i> infection. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	36
62	ADAP2 Is an Interferon Stimulated Gene That Restricts RNA Virus Entry. <i>PLoS Pathogens</i> , 2015, 11, e1005150.	4.7	36
63	Enter at your own risk: How enteroviruses navigate the dangerous world of pattern recognition receptor signaling. <i>Cytokine</i> , 2013, 63, 230-236.	3.2	34
64	Regulation of Mitochondrial Antiviral Signaling (MAVS) Expression and Signaling by the Mitochondria-associated Endoplasmic Reticulum Membrane (MAM) Protein Gp78. <i>Journal of Biological Chemistry</i> , 2014, 289, 1604-1616.	3.4	33
65	BPIFB3 Regulates Autophagy and Coxsackievirus B Replication through a Noncanonical Pathway Independent of the Core Initiation Machinery. <i>MBio</i> , 2014, 5, e02147.	4.1	32
66	BPIFB6 Regulates Secretory Pathway Trafficking and Enterovirus Replication. <i>Journal of Virology</i> , 2016, 90, 5098-5107.	3.4	32
67	Dengue Virus Targets Nrf2 for NS2B3-Mediated Degradation Leading to Enhanced Oxidative Stress and Viral Replication. <i>Journal of Virology</i> , 2020, 94, .	3.4	32
68	RIPK3: Beyond Necroptosis. <i>Immunity</i> , 2019, 50, 1-3.	14.3	31
69	The exoribonuclease Xrn1 is a post-transcriptional negative regulator of autophagy. <i>Autophagy</i> , 2018, 14, 898-912.	9.1	30
70	Lipid Raft- and Src Family Kinase-Dependent Entry of Coxsackievirus B into Human Placental Trophoblasts. <i>Journal of Virology</i> , 2013, 87, 8569-8581.	3.4	29
71	Autophagy Modulates Articular Cartilage Vesicle Formation in Primary Articular Chondrocytes. <i>Journal of Biological Chemistry</i> , 2015, 290, 13028-13038.	3.4	28
72	The Role of Congenital Cytomegalovirus Infection in Adverse Birth Outcomes: A Review of the Potential Mechanisms. <i>Viruses</i> , 2021, 13, 20.	3.3	28

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73	BPIFB3 Regulates Endoplasmic Reticulum Morphology To Facilitate Flavivirus Replication. <i>Journal of Virology</i> , 2020, 94, .	3.4	27
74	Death waits for no man “ Does it wait for a virus? How enteroviruses induce and control cell death. <i>Cytokine and Growth Factor Reviews</i> , 2014, 25, 587-596.	7.2	26
75	An Evolutionary Insertion in the Mxra8 Receptor-Binding Site Confers Resistance to Alphavirus Infection and Pathogenesis. <i>Cell Host and Microbe</i> , 2020, 27, 428-440.e9.	11.0	26
76	Innate immune defenses at the maternal-fetal interface. <i>Current Opinion in Immunology</i> , 2022, 74, 60-67.	5.5	24
77	Recommendations for future university pandemic responses: What the first COVID-19 shutdown taught us. <i>PLoS Biology</i> , 2020, 18, e3000889.	5.6	21
78	Respiratory and intestinal epithelial cells exhibit differential susceptibility and innate immune responses to contemporary EV-D68 isolates. <i>ELife</i> , 2021, 10, .	6.0	20
79	Stem Cell-Derived Models of Viral Infections in the Gastrointestinal Tract. <i>Viruses</i> , 2018, 10, 124.	3.3	18
80	Pregnancy influences immune responses to SARS-CoV-2. <i>Science Translational Medicine</i> , 2021, 13, eabm2070.	12.4	18
81	<i>Toxoplasma gondii</i> GRA28 Is Required for Placenta-Specific Induction of the Regulatory Chemokine CCL22 in Human and Mouse. <i>MBio</i> , 2021, 12, e0159121.	4.1	15
82	Gatekeepers of the fetus: Characterization of placental macrophages. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	13
83	Functional coupling between TRPV4 channel and TMEM16F modulates human trophoblast fusion. <i>ELife</i> , 2021, 10, 11, .	6.0	13
84	Unc93b Induces Apoptotic Cell Death and Is Cleaved by Host and Enteroviral Proteases. <i>PLoS ONE</i> , 2015, 10, e0141383.	2.5	12
85	Human FcRn expression and Type I Interferon signaling control Echovirus 11 pathogenesis in mice. <i>PLoS Pathogens</i> , 2021, 17, e1009252.	4.7	12
86	Emerging arboviruses and implications for pediatric transplantation: A review. <i>Pediatric Transplantation</i> , 2019, 23, e13303.	1.0	9
87	Closing in on a Zika virus vaccine. <i>Nature Reviews Immunology</i> , 2018, 18, 89-90.	22.7	8
88	The Tree(s) of Life: The Human Placenta and My Journey to Learn More about It. <i>PLoS Pathogens</i> , 2016, 12, e1005515.	4.7	7
89	Inhibiting Ebola virus and SARS-CoV-2 entry. <i>Science</i> , 2020, 370, 167-168.	12.6	6
90	The Distinct Roles of JAM-A in Reovirus Pathogenesis. <i>Cell Host and Microbe</i> , 2009, 5, 3-5.	11.0	5

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91	BPIFB3 interacts with ARFGAP1 and TMED9 to regulate non-canonical autophagy and RNA virus infection. <i>Journal of Cell Science</i> , 2021, 134, .	2.0	5
92	Uterine NK cell education: Learning the ropes in pregnancy. <i>Immunity</i> , 2021, 54, 1102-1104.	14.3	5
93	RNAi Screening in Mammalian Cells to Identify Novel Host Cell Molecules Involved in the Regulation of Viral Infections. <i>Methods in Molecular Biology</i> , 2011, 721, 397-405.	0.9	5
94	Horsepox: Framing a dual use research of concern debate. <i>PLoS Pathogens</i> , 2018, 14, e1007344.	4.7	4
95	Enterovirus Replication and Dissemination Are Differentially Controlled by Type I and III Interferons in the Gastrointestinal Tract. <i>MBio</i> , 2022, 13, .	4.1	4
96	Unc-13 homologue D mediates an antiviral effect of the chromosome 19 microRNA cluster miR-517a. <i>Journal of Cell Science</i> , 2020, 134, .	2.0	3
97	STINGâ€™ing Zika virus in neurons. <i>Nature Microbiology</i> , 2018, 3, 975-976.	13.3	2
98	Imaging-Based Reporter Systems to Define CVB-Induced Membrane Remodeling in Living Cells. <i>Viruses</i> , 2020, 12, 1074.	3.3	2
99	An <i>In Vivo</i> Model of Echovirus-Induced Meningitis Defines the Differential Roles of Type I and Type III Interferon Signaling in Central Nervous System Infection. <i>Journal of Virology</i> , 0, , .	3.4	2