

# Ulrich Melcher

## List of Publications by Year in descending order

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88  
papers

3,517  
citations

172457

29  
h-index

144013

57  
g-index

89  
all docs

89  
docs citations

89  
times ranked

2770  
citing authors

#	ARTICLE	IF	CITATIONS
1	The $\beta$ 30K <sup>TM</sup> superfamily of viral movement proteins. <i>Microbiology (United Kingdom)</i> , 2000, 81, 257-266.	1.8	265
2	Community terminal restriction fragment length polymorphisms reveal insights into the diversity and dynamics of leaf endophytic bacteria. <i>BMC Microbiology</i> , 2013, 13, 1.	3.3	257
3	Cell surface immunoglobulin. XI. The appearance of an IgD-like molecule on murine lymphoid cells during ontogeny.. <i>Journal of Experimental Medicine</i> , 1975, 141, 206-215.	8.5	196
4	Plant Pathogen Forensics: Capabilities, Needs, and Recommendations. <i>Microbiology and Molecular Biology Reviews</i> , 2006, 70, 450-471.	6.6	143
5	CELL SURFACE IMMUNOGLOBULIN. <i>Journal of Experimental Medicine</i> , 1974, 140, 1427-1431.	8.5	141
6	ICTV Virus Taxonomy Profile: Virgaviridae. <i>Journal of General Virology</i> , 2017, 98, 1999-2000.	2.9	134
7	Plant Virus Biodiversity and Ecology. <i>PLoS Biology</i> , 2006, 4, e80.	5.6	123
8	The expanding field of plant virus ecology: Historical foundations, knowledge gaps, and research directions. <i>Virus Research</i> , 2011, 159, 84-94.	2.2	113
9	Predominance of six different hexanucleotide recoding signals 3' of read-through stop codons. <i>Nucleic Acids Research</i> , 2002, 30, 2011-2017.	14.5	110
10	Helper component for aphid transmission encoded by region II of cauliflower mosaic virus DNA. <i>Virology</i> , 1983, 129, 25-30.	2.4	106
11	Tobamovirus evolution: gene overlaps, recombination, and taxonomic implications. <i>Molecular Biology and Evolution</i> , 1996, 13, 1327-1338.	8.9	103
12	Molecular Detection and Identification of Influenza Viruses by Oligonucleotide Microarray Hybridization. <i>Journal of Clinical Microbiology</i> , 2003, 41, 4542-4550.	3.9	98
13	Influences of Plant Species, Season and Location on Leaf Endophytic Bacterial Communities of Non-Cultivated Plants. <i>PLoS ONE</i> , 2016, 11, e0150895.	2.5	96
14	The Phytopathogenic Mollicute-Insect Vector Interface: A Closer Look. <i>Phytopathology</i> , 1998, 88, 1351-1358.	2.2	92
15	<i>Serratia marcescens</i> , a Phloem-Colonizing, Squash Bug -Transmitted Bacterium: Causal Agent of Cucurbit Yellow Vine Disease. <i>Plant Disease</i> , 2003, 87, 937-944.	1.4	83
16	Non-cultivated plants of the Tallgrass Prairie Preserve of northeastern Oklahoma frequently contain virus-like sequences in particulate fractions. <i>Virus Research</i> , 2009, 141, 169-173.	2.2	74
17	Biosecurity Implications of New Technology and Discovery in Plant Virus Research. <i>PLoS Pathogens</i> , 2013, 9, e1003337.	4.7	66
18	Are immunoglobulins integral membrane proteins?. <i>Nature</i> , 1975, 258, 434-435.	27.8	64

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19	Recombination sites in cauliflower mosaic virus DNAs: Implications for mechanisms of recombination. <i>Virology</i> , 1990, 177, 717-726.	2.4	53
20	Characterization of <i>Spiroplasma citri</i> adhesion related protein SARP1, which contains a domain of a novel family designated sarpin. <i>Gene</i> , 2001, 275, 57-64.	2.2	53
21	Extensive chromosome aberrations in <i>Spiroplasma citri</i> strain BR3. <i>Biochemical Genetics</i> , 1996, 34, 269-286.	1.7	49
22	Evidence for novel viruses by analysis of nucleic acids in virus-like particle fractions from <i>Ambrosia psilostachya</i> . <i>Journal of Virological Methods</i> , 2008, 152, 49-55.	2.1	46
23	Assessment of codivergence of Mastreviruses with their plant hosts. <i>BMC Evolutionary Biology</i> , 2008, 8, 335.	3.2	43
24	Symptoms of Cauliflower Mosaic Virus Infection in <i>Arabidopsis thaliana</i> and Turnip. <i>Botanical Gazette</i> , 1989, 150, 139-147.	0.6	42
25	Phylogenetic relationships reveal recombination among isolates of cauliflower mosaic virus. <i>Journal of Molecular Evolution</i> , 1994, 39, 496-505.	1.8	42
26	Completion of a cDNA sequence from a tobamovirus pathogenic to crucifers. <i>Gene</i> , 1995, 166, 331-332.	2.2	36
27	Molecular Characterization, Ecology, and Epidemiology of a Novel Tymovirus in <i>Asclepias viridis</i> from Oklahoma. <i>Phytopathology</i> , 2012, 102, 166-176.	2.2	35
28	Soilborne wheat mosaic virus (SBWMV) 19K protein belongs to a class of cysteine rich proteins that suppress RNA silencing. <i>Virology Journal</i> , 2005, 2, 18.	3.4	34
29	Density differences between membrane and secreted immunoglobulins of murine splenocytes. <i>Biochemistry</i> , 1977, 16, 145-152.	2.5	32
30	Molecular characterization of a gene encoding a membrane protein of <i>Spiroplasma citri</i> . <i>Gene</i> , 1997, 189, 95-100.	2.2	31
31	Co-divergence and host-switching in the evolution of tobamoviruses. <i>Journal of General Virology</i> , 2012, 93, 408-418.	2.9	31
32	Clones of cauliflower mosaic virus identified by molecular hybridization in turnip leaves. <i>Plant Molecular Biology</i> , 1981, 1, 63-73.	3.9	29
33	Recombination between mutant cauliflower mosaic virus DNAs. <i>Plant Molecular Biology</i> , 1985, 5, 281-289.	3.9	29
34	Determinants of taxonomic composition of plant viruses at the Nature Conservancy's Tallgrass Prairie Preserve, Oklahoma. <i>Virus Evolution</i> , 2015, 1, vev007.	4.9	28
35	Detection of members of the Tombusviridae in the Tallgrass Prairie Preserve, Osage County, Oklahoma, USA. <i>Virus Research</i> , 2011, 160, 256-263.	2.2	27
36	<i>In Vitro</i> Synthesis of a Precursor to the Methionine-rich Polypeptide of the Zein Fraction of Corn. <i>Plant Physiology</i> , 1979, 63, 354-358.	4.8	26

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37	Detection of members of the Secoviridae in the Tallgrass Prairie Preserve, Osage County, Oklahoma, USA. <i>Virus Research</i> , 2012, 167, 34-42.	2.2	26
38	PROTEIN RELEASE BY BARLEY ALEURONE LAYERS. <i>Journal of the Institute of Brewing</i> , 1971, 77, 456-461.	2.3	25
39	Mechanisms of Spiroplasma Genome Variation Associated with SpVI-like Viral DNA Inferred from Sequence Comparisons. <i>Microbial &amp; Comparative Genomics</i> , 1999, 4, 29-46.	0.4	25
40	Sequence comparisons of plasmids pBJS-O of <i>Spiroplasma citri</i> and pSKU146 of <i>S. kunkelii</i> : implications for plasmid evolution. <i>BMC Genomics</i> , 2005, 6, 175.	2.8	25
41	VirOligo: a database of virus-specific oligonucleotides. <i>Nucleic Acids Research</i> , 2002, 30, 203-204.	14.5	24
42	Evidence that the 37 kDa protein of Soil-borne wheat mosaic virus is a virus movement protein. <i>Journal of General Virology</i> , 2003, 84, 3153-3163.	2.9	22
43	Population genetic analysis of grapevine fanleaf virus. <i>Archives of Virology</i> , 2012, 157, 1919-1929.	2.1	22
44	AN ELECTROPHORETIC DIFFERENCE BETWEEN SURFACE AND SECRETED IGM OF MURINE SPLENOCYTES. <i>Journal of Experimental Medicine</i> , 1973, 138, 1282-1287.	8.5	20
45	Inactivation of cauliflower mosaic virus by a photoactivatable cotton phytoalexin. <i>Physiological and Molecular Plant Pathology</i> , 1988, 33, 115-126.	2.5	20
46	Polymerase Chain Reaction Detection and Phylogenetic Characterization of an Agent Associated with Yellow Vine Disease of Cucurbits. <i>Phytopathology</i> , 1998, 88, 428-436.	2.2	20
47	Common elements of spiroplasma plectroviruses revealed by nucleotide sequence of SVTS2. <i>Virus Genes</i> , 2000, 20, 47-56.	1.6	20
48	Turnip vein-clearing virus, from pathogen to host expression profile. <i>Molecular Plant Pathology</i> , 2003, 4, 133-140.	4.2	19
49	Metagenomic search strategies for interactions among plants and multiple microbes. <i>Frontiers in Plant Science</i> , 2014, 5, 268.	3.6	19
50	Sequence changes in six variants of rice tungro bacilliform virus and their phylogenetic relationships. <i>Journal of General Virology</i> , 1999, 80, 2229-2237.	2.9	19
51	In Planta Deletion of DNA Inserts from the Large Intergenic Region of Cauliflower Mosaic Virus DNA. <i>Virology</i> , 1993, 192, 188-196.	2.4	16
52	Markov model recognition and classification of DNA/protein sequences within large text databases. <i>Bioinformatics</i> , 2005, 21, 4046-4053.	4.1	16
53	The complete nucleotide sequence of cauliflower mosaic virus isolate BBC. <i>Gene</i> , 1993, 123, 255-257.	2.2	15
54	Oligonucleotide-based microarray for detection of plant viruses employing sequence-independent amplification of targets. <i>Journal of Virological Methods</i> , 2010, 163, 57-67.	2.1	15

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55	Annotation and analysis of the mitochondrial genome of <i>Coniothyrium glycinis</i> , causal agent of red leaf blotch of soybean, reveals an abundance of homing endonucleases. <i>PLoS ONE</i> , 2018, 13, e0207062.	2.5	15
56	Methionine-rich protein fraction prepared by cryoprecipitation from extracts of corn meal. <i>Journal of Agricultural and Food Chemistry</i> , 1980, 28, 1334-1336.	5.2	14
57	Selection for 3' end triplets for polymerase chain reaction primers. <i>Molecular and Cellular Probes</i> , 2004, 18, 369-372.	2.1	13
58	Nucleotide Sequence of Cauliflower Mosaic Virus Isolate NY8153. <i>Plant Physiology</i> , 1992, 100, 542-545.	4.8	11
59	Citrus Stubborn Severity Is Associated with <i>Spiroplasma citri</i> Titer But Not with Bacterial Genotype. <i>Plant Disease</i> , 2010, 94, 75-82.	1.4	11
60	Infection of evacuated turnip protoplasts with liposome-packaged cauliflower mosaic virus. <i>Plant Cell Reports</i> , 1985, 4, 58-62.	5.6	10
61	Replication of Cauliflower Mosaic Virus DNA in Leaves and Suspension Culture Protoplasts of Cotton. <i>Plant Physiology</i> , 1987, 83, 633-639.	4.8	10
62	Nylon Membrane-Immobilized PCR for Detection of Bovine Viruses. <i>BioTechniques</i> , 2002, 32, 74-80.	1.8	10
63	The Phytopathogenic Spiroplasmas. , 2006, , 905-947.		10
64	Selective allele loss and interference between cauliflower mosaic virus DNAs. <i>Molecular Genetics and Genomics</i> , 1986, 203, 230-236.	2.4	9
65	HIV-1 Proteinase as Structural Model of Intercellular Transport Proteins of Plant Viruses. <i>Journal of Theoretical Biology</i> , 1993, 162, 61-74.	1.7	9
66	Genomic characterization of Ambrosia asymptomatic virus 1 and evidence of other Tymovirales members in the Oklahoma tallgrass prairie revealed by sequence analysis. <i>Archives of Virology</i> , 2014, 159, 1755-1764.	2.1	9
67	Complementary DNA - 25S ribosomal RNA hybridization: an improved method for phylogenetic studies. <i>Canadian Journal of Microbiology</i> , 1983, 29, 546-551.	1.7	8
68	Adaptation and Validation of E-Probe Diagnostic Nucleic Acid Analysis for Detection of <i>Escherichia coli</i> O157:H7 in Metagenomic Data from Complex Food Matrices. <i>Journal of Food Protection</i> , 2016, 79, 574-581.	1.7	8
69	Metabolism of puromycin by yeast cells. <i>Nucleic Acids and Protein Synthesis</i> , 1971, 246, 216-224.	1.7	7
70	Assessing constancy of substitution rates in viruses over evolutionary time. <i>BMC Bioinformatics</i> , 2010, 11, S3.	2.6	7
71	Forensic Plant Pathology. , 2011, , 89-724.		7
72	The purification of $\beta$ -galactosidase-specific polysomes by affinity chromatography. <i>Analytical Biochemistry</i> , 1975, 64, 461-465.	2.4	6

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73	Heterogeneity of <i>Zea mays</i> protein body messenger RNA. <i>Plant Science Letters</i> , 1980, 18, 133-141.	1.8	6
74	Evolution of the <i>Spiroplasma</i> P58 Multigene Family. <i>Biochemical Genetics</i> , 2007, 45, 25-32.	1.7	6
75	Selection and characterization of <i>Spiroplasma citri</i> mutants by random transposome mutagenesis. <i>Canadian Journal of Microbiology</i> , 2011, 57, 525-532.	1.7	5
76	An Analysis of the Genomic Variability of the Phytopathogenic Mollicute <i>Spiroplasma kunkelii</i> . <i>Phytopathology</i> , 2013, 103, 129-134.	2.2	5
77	Modeling of Mutational Events in the Evolution of Viruses. <i>Viruses</i> , 2019, 11, 418.	3.3	4
78	Extensive chromosome aberrations in <i>Spiroplasma citri</i> strain BR3. <i>Biochemical Genetics</i> , 1996, 34, 269-286.	1.7	4
79	New Perspectives on the Epidemiology of Citrus Stubborn Disease in California Orchards. <i>Plant Health Progress</i> , 2010, 11, 37.	1.4	3
80	Forensic plant pathology. , 2020, , 49-70.		3
81	Possible palindromes in immunoglobulin heavy-chain genes: Their role in membrane attachment. <i>Immunogenetics</i> , 1978, 7, 1-12.	2.4	2
82	Evaluating the impacts of stressors of <i>Pseudomonas syringae</i> pathovar tomato on the effectiveness of multi-locus variable number tandem repeat analysis and multi-locus sequence typing in microbial forensic investigations. <i>Investigative Genetics</i> , 2014, 5, 10.	3.3	2
83	Graphic Representations of Amino Acid Sequences. , 1995, , 6-14.		2
84	A readable and space-efficient DNA sequence representation: application to caulimoviral DNAs. <i>Bioinformatics</i> , 1988, 4, 93-96.	4.1	1
85	Historical importance of TMV. <i>Trends in Plant Science</i> , 2000, 5, 268.	8.8	0
86	Virus Operation Control Centers. <i>Signaling and Communication in Plants</i> , 2012, , 231-254.	0.7	0
87	Special Issue "Plant Virus Ecology and Biodiversity". <i>Viruses</i> , 2019, 11, 676.	3.3	0
88	Plectrovirus. , 2011, , 749-755.		0