Michael Otmar Hengartner

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135 papers	27,632 citations	64 h-index	147 g-index
147 ext. papers	30,741 ext. citations	15.8 avg, IF	7.22 L-index

#	Paper	IF	Citations
135	The biochemistry of apoptosis. *Nature*, **2000**, 407, 770-6	50.4	5867
134	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. *Cell Death and Differentiation*, **2018**, 25, 486-541	12.7	2160
133	Classification of cell death: recommendations of the Nomenclature Committee on Cell Death 2009. *Cell Death and Differentiation*, **2009**, 16, 3-11	12.7	2114
132	Molecular definitions of cell death subroutines: recommendations of the Nomenclature Committee on Cell Death 2012. *Cell Death and Differentiation*, **2012**, 19, 107-20	12.7	1843
131	C. elegans cell survival gene ced-9 encodes a functional homolog of the mammalian proto-oncogene bcl-2. *Cell*, **1994**, 76, 665-76	56.2	1020
130	Caenorhabditis elegans gene ced-9 protects cells from programmed cell death. *Nature*, **1992**, 356, 494-9	50.4	745
129	Finding function in novel targets: C. elegans as a model organism. *Nature Reviews Drug Discovery*, **2006**, 5, 387-98	64.1	664
128	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. *Cell Death and Differentiation*, **2015**, 22, 58-73	12.7	643
127	Programmed cell death: alive and well in the new millennium. *Trends in Cell Biology*, **2001**, 11, 526-34	18.3	540
126	Guidelines for the use and interpretation of assays for monitoring cell death in higher eukaryotes. *Cell Death and Differentiation*, **2009**, 16, 1093-107	12.7	533
125	Microtubule-associated protein 1 light chain 3 alpha (LC3)-associated phagocytosis is required for the efficient clearance of dead cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 17396-401	11.5	469
124	CED-12/ELMO, a novel member of the CrkII/Dock180/Rac pathway, is required for phagocytosis and cell migration. *Cell*, **2001**, 107, 27-41	56.2	467
123	miRNAs and apoptosis: RNAs to die for. *Oncogene*, **2006**, 25, 6176-87	9.2	426
122	A conserved checkpoint pathway mediates DNA damage--induced apoptosis and cell cycle arrest in C. elegans. *Molecular Cell*, **2000**, 5, 435-43	17.6	416
121	mProphet: automated data processing and statistical validation for large-scale SRM experiments. *Nature Methods*, **2011**, 8, 430-5	21.6	357
120	PaxDb, a database of protein abundance averages across all three domains of life. *Molecular and Cellular Proteomics*, **2012**, 11, 492-500	7.6	351
119	Mitochondria as a target of environmental toxicants. *Toxicological Sciences*, **2013**, 134, 1-17	4.4	331

118	Programmed cell death in Caenorhabditis elegans. *Current Opinion in Genetics and Development*, **1994**, 4, 581-6	4.9	318
117	Interaction between the C. elegans cell-death regulators CED-9 and CED-4. *Nature*, **1997**, 385, 653-6	50.4	274
116	Protein identification false discovery rates for very large proteomics data sets generated by tandem mass spectrometry. *Molecular and Cellular Proteomics*, **2009**, 8, 2405-17	7.6	250
115	Engulfment genes cooperate with ced-3 to promote cell death in Caenorhabditis elegans. *Nature*, **2001**, 412, 202-6	50.4	243
114	Developmental apoptosis in C. elegans: a complex CEDnario. *Nature Reviews Molecular Cell Biology*, **2006**, 7, 97-108	48.7	226
113	Deficiency of FANCD2-associated nuclease KIAA1018/FAN1 sensitizes cells to interstrand crosslinking agents. *Cell*, **2010**, 142, 77-88	56.2	220
112	Caenorhabditis elegans HUS-1 is a DNA damage checkpoint protein required for genome stability and EGL-1-mediated apoptosis. *Current Biology*, **2002**, 12, 1908-18	6.3	216
111	Two pathways converge at CED-10 to mediate actin rearrangement and corpse removal in C. elegans. *Nature*, **2005**, 434, 93-9	50.4	213
110	Caenorhabditis elegans inhibitor of apoptosis protein (IAP) homologue BIR-1 plays a conserved role in cytokinesis. *Current Biology*, **1999**, 9, 292-301	6.3	208
109	A pathway for phagosome maturation during engulfment of apoptotic cells. *Nature Cell Biology*, **2008**, 10, 556-66	23.4	200
108	No death without life: vital functions of apoptotic effectors. *Cell Death and Differentiation*, **2008**, 15, 1113-23	12.7	198
107	Translational repression of C. elegans p53 by GLD-1 regulates DNA damage-induced apoptosis. *Cell*, **2005**, 120, 357-68	56.2	182
106	Candidate adaptor protein CED-6 promotes the engulfment of apoptotic cells in C. elegans. *Cell*, **1998**, 93, 961-72	56.2	179
105	Comparative functional analysis of the Caenorhabditis elegans and Drosophila melanogaster proteomes. *PLoS Biology*, **2009**, 7, e48	9.7	179
104	Dock180 and ELMO1 proteins cooperate to promote evolutionarily conserved Rac-dependent cell migration. *Journal of Biological Chemistry*, **2004**, 279, 6087-97	5.4	173
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102	Functional identification of optimized RNAi triggers using a massively parallel sensor assay. *Molecular Cell*, **2011**, 41, 733-46	17.6	166
101	Mutations in the alpha1 subunit of an L-type voltage-activated Ca2+ channel cause myotonia in Caenorhabditis elegans. *EMBO Journal*, **1997**, 16, 6066-76	13	162

100	Activation of C. elegans cell death protein CED-9 by an amino-acid substitution in a domain conserved in Bcl-2. *Nature*, **1994**, 369, 318-20	50.4	153
99	Comparative analysis reveals conserved protein phosphorylation networks implicated in multiple diseases. *Science Signaling*, **2009**, 2, ra39	8.8	152
98	HIF-1 antagonizes p53-mediated apoptosis through a secreted neuronal tyrosinase. *Nature*, **2010**, 465, 577-83	50.4	149
97	Transcriptional regulator of programmed cell death encoded by Caenorhabditis elegans gene ces-2. *Nature*, **1996**, 382, 545-7	50.4	147
96	The genetics of programmed cell death in the nematode Caenorhabditis elegans. *Cold Spring Harbor Symposia on Quantitative Biology*, **1994**, 59, 377-85	3.9	146
95	Advances in apoptosis research. *Proceedings of the National Academy of Sciences of the United States of America*, **1997**, 94, 12736-7	11.5	144
94	A common set of engulfment genes mediates removal of both apoptotic and necrotic cell corpses in C. elegans. *Nature Cell Biology*, **2000**, 2, 931-7	23.4	142
93	Apoptosis: corralling the corpses. *Cell*, **2001**, 104, 325-8	56.2	142
92	C. elegans RAD-5/CLK-2 defines a new DNA damage checkpoint protein. *Current Biology*, **2001**, 11, 1934-44	8.3	130
91	Protection of C. elegans from anoxia by HYL-2 ceramide synthase. *Science*, **2009**, 324, 381-4	33.3	127
90	Death and more: DNA damage response pathways in the nematode C. elegans. *Cell Death and Differentiation*, **2004**, 11, 21-8	12.7	121
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86	Genome-wide RNAi identifies p53-dependent and -independent regulators of germ cell apoptosis in C. elegans. *Cell Death and Differentiation*, **2004**, 11, 1198-203	12.7	89
85	Apoptotic cell death under hypoxia. *Physiology*, **2014**, 29, 168-76	9.8	88
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80	A quantitative targeted proteomics approach to validate predicted microRNA targets in C. elegans. *Nature Methods*, **2010**, 7, 837-42	21.6	71
79	A lectin-mediated resistance of higher fungi against predators and parasites. *Molecular Ecology*, **2011**, 20, 3056-70	5.7	67
78	The Wnt pathway controls cell death engulfment, spindle orientation, and migration through CED-10/Rac. *PLoS Biology*, **2010**, 8, e1000297	9.7	66
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76	The molecular mechanism of programmed cell death in C. elegans. *Annals of the New York Academy of Sciences*, **1999**, 887, 92-104	6.5	66
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63	URI-1 is required for DNA stability in C. elegans. *Development (Cambridge)*, **2006**, 133, 621-9	6.6	49
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61	C. elegans GLA-3 is a novel component of the MAP kinase MPK-1 signaling pathway required for germ cell survival. *Genes and Development*, **2006**, 20, 2279-92	12.6	47
60	Loss of the RhoGAP SRGP-1 promotes the clearance of dead and injured cells in Caenorhabditis elegans. *Nature Cell Biology*, **2011**, 13, 79-86	23.4	45
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55	LEM-3 - A LEM domain containing nuclease involved in the DNA damage response in C. elegans. *PLoS ONE*, **2012**, 7, e24555	3.7	36
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50	Alteration of the nuclear pore complex in Ca(2+)-mediated cell death. *Cell Death and Differentiation* , **2010**, 17, 119-33	12.7	34
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38	Disruption of the C. elegans Intestinal Brush Border by the Fungal Lectin CCL2 Phenocopies Dietary Lectin Toxicity in Mammals. *PLoS ONE*, **2015**, 10, e0129381	3.7	23
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36	Genetic control of programmed cell death and aging in the nematode Caenorhabditis elegans. *Experimental Gerontology*, **1997**, 32, 363-74	4.5	22
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33	Natural Genetic Variation Influences Protein Abundances in C. elegans Developmental Signalling Pathways. *PLoS ONE*, **2016**, 11, e0149418	3.7	21
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28	Selected elements of herpes simplex virus accessory factor HCF are highly conserved in Caenorhabditis elegans. *Molecular and Cellular Biology*, **1999**, 19, 909-15	4.8	19
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26	Generic comparison of protein inference engines. *Molecular and Cellular Proteomics*, **2012**, 11, O110.007088	7.8	18
25	Biotoxicity assays for fruiting body lectins and other cytoplasmic proteins. *Methods in Enzymology*, **2010**, 480, 141-50	1.7	18
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22	Cooperative target mRNA destabilization and translation inhibition by miR-58 microRNA family in C. elegans. *Genome Research*, **2015**, 25, 1680-91	9.7	15
21	Long-term C. elegans immobilization enables high resolution developmental studies in vivo. *Lab on A Chip*, **2018**, 18, 1359-1368	7.2	15
20	Natural Genetic Variation Differentially Affects the Proteome and Transcriptome in Caenorhabditis elegans. *Molecular and Cellular Proteomics*, **2016**, 15, 1670-80	7.6	15
19	Programmed cell death. A rich harvest. *Current Biology*, **1994**, 4, 950-2	6.3	15
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9	Nuclear pore complex during neuronal degeneration. *Nucleus*, **2010**, 1, 136-138	3.9	4
8	Differential regulation of germ line apoptosis and germ cell differentiation by CPEB family members in C. elegans. *PLoS ONE*, **2017**, 12, e0182270	3.7	4
7	Out-of body experiences: cell-free cell death. *BioEssays*, **1995**, 17, 549-52	4.1	3
6	MINA-1 and WAGO-4 are part of regulatory network coordinating germ cell death and RNAi in C. elegans. *Cell Death and Differentiation*, **2019**, 26, 2157-2178	12.7	2
5	Predictive Modelling of Stem Cell Differentiation and Apoptosis in C. elegans. *Lecture Notes in Computer Science*, **2012**, 99-104	0.9	2
4	Cell Death in C. elegans **2009**,		1
3	Loss of Acetylcholine Signaling Reduces Cell Clearance Deficiencies in Caenorhabditis elegans. *PLoS ONE*, **2016**, 11, e0149274	3.7	1
2	C. elegans as a Model system for Germ Cell Death **1997**, 8-18		1
1	The ins and outs of programmed cell death during C. elegans development **1995**, 7-10		