

# Alfred C O Vertegaal

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

6,015  
citations

81839

39  
h-index

76872

74  
g-index

91  
all docs

91  
docs citations

91  
times ranked

6393  
citing authors

#	ARTICLE	IF	CITATIONS
1	Site-specific proteomic strategies to identify ubiquitin and SUMO modifications: Challenges and opportunities. <i>Seminars in Cell and Developmental Biology</i> , 2022, 132, 97-108.	2.3	10
2	Targeting pancreatic cancer by TAK-981: a SUMOylation inhibitor that activates the immune system and blocks cancer cell cycle progression in a preclinical model. <i>Gut</i> , 2022, 71, 2266-2283.	6.1	35
3	Deubiquitinating enzymes and the proteasome regulate preferential sets of ubiquitin substrates. <i>Nature Communications</i> , 2022, 13, 2736.	5.8	22
4	Signalling mechanisms and cellular functions of SUMO. <i>Nature Reviews Molecular Cell Biology</i> , 2022, 23, 715-731.	16.1	99
5	THO complex deficiency impairs DNA double-strand break repair via the RNA surveillance kinase SMG-1. <i>Nucleic Acids Research</i> , 2022, 50, 6235-6250.	6.5	5
6	A Chain of Events: Regulating Target Proteins by SUMO Polymers. <i>Trends in Biochemical Sciences</i> , 2021, 46, 113-123.	3.7	55
7	Targeting SUMO Signaling to Wrestle Cancer. <i>Trends in Cancer</i> , 2021, 7, 496-510.	3.8	62
8	Global non-covalent SUMO interaction networks reveal SUMO-dependent stabilization of the non-homologous end joining complex. <i>Cell Reports</i> , 2021, 34, 108691.	2.9	41
9	A CSB-PAF1C axis restores processive transcription elongation after DNA damage repair. <i>Nature Communications</i> , 2021, 12, 1342.	5.8	31
10	Splicing factors control triple-negative breast cancer cell mitosis through SUN2 interaction and sororin intron retention. <i>Journal of Experimental and Clinical Cancer Research</i> , 2021, 40, 82.	3.5	20
11	Molecular mechanisms of APC/C release from spindle assembly checkpoint inhibition by APC/C SUMOylation. <i>Cell Reports</i> , 2021, 34, 108929.	2.9	12
12	ELOF1 is a transcription-coupled DNA repair factor that directs RNA polymerase II ubiquitylation. <i>Nature Cell Biology</i> , 2021, 23, 595-607.	4.6	38
13	SUMOylation Is Associated with Aggressive Behavior in Chondrosarcoma of Bone. <i>Cancers</i> , 2021, 13, 3823.	1.7	7
14	Proteomic strategies for characterizing ubiquitin-like modifications. <i>Nature Reviews Methods Primers</i> , 2021, 1, .	11.8	6
15	SALL1 Modulates CBX4 Stability, Nuclear Bodies, and Regulation of Target Genes. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 715868.	1.8	1
16	The ER-embedded UBE2J1/RNF26 ubiquitylation complex exerts spatiotemporal control over the endolysosomal pathway. <i>Cell Reports</i> , 2021, 34, 108659.	2.9	22
17	<i>ERCC1</i> mutations impede DNA damage repair and cause liver and kidney dysfunction in patients. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	18
18	Identification of proximal SUMO-dependent interactors using SUMO-ID. <i>Nature Communications</i> , 2021, 12, 6671.	5.8	27

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19	Zinc finger protein ZNF384 is an adaptor of Ku to DNA during classical non-homologous end-joining. <i>Nature Communications</i> , 2021, 12, 6560.	5.8	17
20	A proteomics study identifying interactors of the FSHD2 gene product SMCHD1 reveals RUVBL1-dependent DUX4 repression. <i>Scientific Reports</i> , 2021, 11, 23642.	1.6	2
21	Transcription-coupled nucleotide excision repair is coordinated by ubiquitin and SUMO in response to ultraviolet irradiation. <i>Nucleic Acids Research</i> , 2020, 48, 231-248.	6.5	10
22	Deubiquitinase Activity Profiling Identifies UCHL1 as a Candidate Oncoprotein That Promotes TGF $\beta$ -Induced Breast Cancer Metastasis. <i>Clinical Cancer Research</i> , 2020, 26, 1460-1473.	3.2	92
23	Chromokinesin KIF4A teams up with stathmin 1 to regulate abscission in a SUMO-dependent manner. <i>Journal of Cell Science</i> , 2020, 133, .	1.2	7
24	CHD7 and 53BP1 regulate distinct pathways for the re-ligation of DNA double-strand breaks. <i>Nature Communications</i> , 2020, 11, 5775.	5.8	28
25	Loss of ZBTB24 impairs nonhomologous end-joining and class-switch recombination in patients with ICF syndrome. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	27
26	The cooperative action of CSB, CSA, and UVSSA target TFIIH to DNA damage-stalled RNA polymerase II. <i>Nature Communications</i> , 2020, 11, 2104.	5.8	91
27	Inhibiting ubiquitination causes an accumulation of SUMOylated newly synthesized nuclear proteins at PML bodies. <i>Journal of Biological Chemistry</i> , 2019, 294, 15218-15234.	1.6	37
28	Chemical Tools and Biochemical Assays for SUMO Specific Proteases (SENPs). <i>ACS Chemical Biology</i> , 2019, 14, 2389-2395.	1.6	14
29	The poly-SUMO2/3 protease SENP6 enables assembly of the constitutive centromere-associated network by group deSUMOylation. <i>Nature Communications</i> , 2019, 10, 3987.	5.8	54
30	WWP2 ubiquitylates RNA polymerase II for DNA-PK-dependent transcription arrest and repair at DNA breaks. <i>Genes and Development</i> , 2019, 33, 684-704.	2.7	71
31	USP7: combining tools towards selectivity. <i>Chemical Communications</i> , 2019, 55, 5075-5078.	2.2	16
32	SUMOylation and the HSF1-Regulated Chaperone Network Converge to Promote Proteostasis in Response to Heat Shock. <i>Cell Reports</i> , 2019, 26, 236-249.e4.	2.9	44
33	Guiding Mitotic Progression by Crosstalk between Post-translational Modifications. <i>Trends in Biochemical Sciences</i> , 2018, 43, 251-268.	3.7	43
34	Probing ubiquitin and SUMO conjugation and deconjugation. <i>Biochemical Society Transactions</i> , 2018, 46, 423-436.	1.6	20
35	SUMO targets the APC/C to regulate transition from metaphase to anaphase. <i>Nature Communications</i> , 2018, 9, 1119.	5.8	41
36	Total Chemical Synthesis of SUMO and SUMO-Based Probes for Profiling the Activity of SUMO-Specific Proteases. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8958-8962.	7.2	42

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37	Total Chemical Synthesis of SUMO and SUMO-Based Probes for Profiling the Activity of SUMO-Specific Proteases. <i>Angewandte Chemie</i> , 2018, 130, 9096-9100.	1.6	10
38	Site-specific mapping of the human SUMO proteome reveals co-modification with phosphorylation. <i>Nature Structural and Molecular Biology</i> , 2017, 24, 325-336.	3.6	283
39	Converging Small Ubiquitin-like Modifier (SUMO) and Ubiquitin Signaling: Improved Methodology Identifies Co-modified Target Proteins. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 2281-2295.	2.5	22
40	The STUBL RNF4 regulates protein group SUMOylation by targeting the SUMO conjugation machinery. <i>Nature Communications</i> , 2017, 8, 1809.	5.8	91
41	Functional analyses of a human vascular tumor FOS variant identify a novel degradation mechanism and a link to tumorigenesis. <i>Journal of Biological Chemistry</i> , 2017, 292, 21282-21290.	1.6	35
42	PARP1 Links CHD2-Mediated Chromatin Expansion and H3.3 Deposition to DNA Repair by Non-homologous End-Joining. <i>Molecular Cell</i> , 2016, 61, 547-562.	4.5	214
43	A cascading activity-based probe sequentially targets E1-E2-E3 ubiquitin enzymes. <i>Nature Chemical Biology</i> , 2016, 12, 523-530.	3.9	122
44	Label-Free Identification and Quantification of SUMO Target Proteins. <i>Methods in Molecular Biology</i> , 2016, 1475, 171-193.	0.4	23
45	Ubiquitin-dependent and independent roles of SUMO in proteostasis. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 311, C284-C296.	2.1	80
46	A high-yield double-purification proteomics strategy for the identification of SUMO sites. <i>Nature Protocols</i> , 2016, 11, 1630-1649.	5.5	29
47	A comprehensive compilation of SUMO proteomics. <i>Nature Reviews Molecular Cell Biology</i> , 2016, 17, 581-595.	16.1	383
48	Mapping the SUMO-ylated landscape. <i>FEBS Journal</i> , 2015, 282, 3669-3680.	2.2	71
49	SUMO-ylation and PAR-ylation cooperate to recruit and stabilize SLX4 at DNA damage sites. <i>EMBO Reports</i> , 2015, 16, 512-519.	2.0	51
50	Ubiquitin-specific Protease 11 (USP11) Deubiquitinates Hybrid Small Ubiquitin-like Modifier (SUMO)-Ubiquitin Chains to Counteract RING Finger Protein 4 (RNF4). <i>Journal of Biological Chemistry</i> , 2015, 290, 15526-15537.	1.6	32
51	SUMO-2 Orchestrates Chromatin Modifiers in Response to DNA Damage. <i>Cell Reports</i> , 2015, 10, 1778-1791.	2.9	117
52	System-wide identification of wild-type SUMO-2 conjugation sites. <i>Nature Communications</i> , 2015, 6, 7289.	5.8	97
53	c-Myc is targeted to the proteasome for degradation in a SUMOylation-dependent manner, regulated by PIAS1, SENP7 and RNF4. <i>Cell Cycle</i> , 2015, 14, 1859-1872.	1.3	77
54	System-wide Analysis of SUMOylation Dynamics in Response to Replication Stress Reveals Novel Small Ubiquitin-like Modified Target Proteins and Acceptor Lysines Relevant for Genome Stability. <i>Molecular and Cellular Proteomics</i> , 2015, 14, 1419-1434.	2.5	79

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55	SUMOylation-Mediated Regulation of Cell Cycle Progression and Cancer. Trends in Biochemical Sciences, 2015, 40, 779-793.	3.7	216
56	SUMO in the DNA damage response. Oncotarget, 2015, 6, 15734-15735.	0.8	19
57	Uncovering SUMOylation Dynamics during Cell-Cycle Progression Reveals FoxM1 as a Key Mitotic SUMO Target Protein. Molecular Cell, 2014, 53, 1053-1066.	4.5	153
58	Uncovering global SUMOylation signaling networks in a site-specific manner. Nature Structural and Molecular Biology, 2014, 21, 927-936.	3.6	408
59	RNF4 is required for DNA double-strand break repair in vivo. Cell Death and Differentiation, 2013, 20, 490-502.	5.0	102
60	Remodeling and spacing factor 1 (RSF1) deposits centromere proteins at DNA double-strand breaks to promote non-homologous end-joining. Cell Cycle, 2013, 12, 3070-3082.	1.3	50
61	RNF12 Controls Embryonic Stem Cell Fate and Morphogenesis in Zebrafish Embryos by Targeting Smad7 for Degradation. Molecular Cell, 2012, 46, 650-661.	4.5	83
62	Uncovering Ubiquitin and Ubiquitin-like Signaling Networks. Chemical Reviews, 2011, 111, 7923-7940.	23.0	91
63	Small Ubiquitin-Like Modifiers and Other Ubiquitin-Like Proteins. , 2011, , 317-340.		0
64	SUMO chains: polymeric signals. Biochemical Society Transactions, 2010, 38, 46-49.	1.6	70
65	Positively charged amino acids flanking a sumoylation consensus tetramer on the 110kDa tri-snRNP component SART1 enhance sumoylation efficiency. Journal of Proteomics, 2010, 73, 1523-1534.	1.2	8
66	RNF4 and VHL regulate the proteasomal degradation of SUMO-conjugated Hypoxia-Inducible Factor-2 $\alpha$ . Nucleic Acids Research, 2010, 38, 1922-1931.	6.5	80
67	Site-Specific Identification of SUMO-2 Targets in Cells Reveals an Inverted SUMOylation Motif and a Hydrophobic Cluster SUMOylation Motif. Molecular Cell, 2010, 39, 641-652.	4.5	255
68	Telomeric DNA Mediates De Novo PML Body Formation. Molecular Biology of the Cell, 2009, 20, 4804-4815.	0.9	27
69	Identification of SUMO Target Proteins by Quantitative Proteomics. Methods in Molecular Biology, 2009, 497, 19-31.	0.4	27
70	In Vivo Identification of Human Small Ubiquitin-like Modifier Polymerization Sites by High Accuracy Mass Spectrometry and an in Vitro to in Vivo Strategy. Molecular and Cellular Proteomics, 2008, 7, 132-144.	2.5	251
71	Identification of a New Site of Sumoylation on Tel (ETV6) Uncovers a PIAS-Dependent Mode of Regulating Tel Function. Molecular and Cellular Biology, 2008, 28, 2342-2357.	1.1	28
72	The Ubiquitin-Proteasome System Is a Key Component of the SUMO-2/3 Cycle. Molecular and Cellular Proteomics, 2008, 7, 2107-2122.	2.5	143

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73	Small ubiquitin-related modifiers in chains. <i>Biochemical Society Transactions</i> , 2007, 35, 1422-1423.	1.6	41
74	Distinct and Overlapping Sets of SUMO-1 and SUMO-2 Target Proteins Revealed by Quantitative Proteomics. <i>Molecular and Cellular Proteomics</i> , 2006, 5, 2298-2310.	2.5	274
75	A Proteomic Study of SUMO-2 Target Proteins. <i>Journal of Biological Chemistry</i> , 2004, 279, 33791-33798.	1.6	197
76	The N and C Termini of the Splice Variants of the Human Mitogen-Activated Protein Kinase-Interacting Kinase Mnk2 Determine Activity and Localization. <i>Molecular and Cellular Biology</i> , 2003, 23, 5692-5705.	1.1	96
77	Differential Expression of Tapasin and Immunoproteasome Subunits in Adenovirus Type 5- Versus Type 12-transformed Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 139-146.	1.6	16
78	Protein kinase C- $\alpha$ ; is an upstream activator of the I $\kappa$ B kinase complex in the TPA signal transduction pathway to NF- $\kappa$ B in U2OS cells. <i>Cellular Signalling</i> , 2000, 12, 759-768.	1.7	81
79	The MN1-TEL Fusion Protein, Encoded by the Translocation (12;22)(p13;q11) in Myeloid Leukemia, Is a Transcription Factor with Transforming Activity. <i>Molecular and Cellular Biology</i> , 2000, 20, 9281-9293.	1.1	78
80	cDNA micro array identification of a gene differentially expressed in adenovirus type 5- versus type 12-transformed cells. <i>FEBS Letters</i> , 2000, 487, 151-155.	1.3	13
81	I $\kappa$ B $\alpha$ is a target for the mitogen-activated 90kDa ribosomal S6 kinase. <i>EMBO Journal</i> , 1997, 16, 3133-3144.	3.5	214