

Ann-Sofie Jemth

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6008511/ann-sofie-jemth-publications-by-citations.pdf>

Version: 2024-04-09

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

36

papers

1,390

citations

16

h-index

37

g-index

43

ext. papers

1,787

ext. citations

12

avg, IF

3.58

L-index

#	Paper	IF	Citations
36	MTH1 inhibition eradicates cancer by preventing sanitation of the dNTP pool. <i>Nature</i> , 2014 , 508, 215-21	50.4	326
35	Stereospecific targeting of MTH1 by (S)-crizotinib as an anticancer strategy. <i>Nature</i> , 2014 , 508, 222-7	50.4	272
34	Processing of protein ADP-ribosylation by Nudix hydrolases. <i>Biochemical Journal</i> , 2015 , 468, 293-301	3.8	89
33	Crystal structure, biochemical and cellular activities demonstrate separate functions of MTH1 and MTH2. <i>Nature Communications</i> , 2015 , 6, 7871	17.4	71
32	NUDT15 Hydrolyzes 6-Thio-DeoxyGTP to Mediate the Anticancer Efficacy of 6-Thioguanine. <i>Cancer Research</i> , 2016 , 76, 5501-11	10.1	71
31	Small-molecule inhibitor of OGG1 suppresses proinflammatory gene expression and inflammation. <i>Science</i> , 2018 , 362, 834-839	33.3	71
30	Targeting SAMHD1 with the Vpx protein to improve cytarabine therapy for hematological malignancies. <i>Nature Medicine</i> , 2017 , 23, 256-263	50.5	69
29	A comprehensive structural, biochemical and biological profiling of the human NUDIX hydrolase family. <i>Nature Communications</i> , 2017 , 8, 1541	17.4	62
28	Crystal structure of human MTH1 and the 8-oxo-dGMP product complex. <i>FEBS Letters</i> , 2011 , 585, 2617-23	3.8	62
27	Crystal Structure of the Emerging Cancer Target MTHFD2 in Complex with a Substrate-Based Inhibitor. <i>Cancer Research</i> , 2017 , 77, 937-948	10.1	37
26	Discovery of the First Potent and Selective Inhibitors of Human dCTP Pyrophosphatase 1. <i>Journal of Medicinal Chemistry</i> , 2016 , 59, 1140-1148	8.3	30
25	Targeted NUDT5 inhibitors block hormone signaling in breast cancer cells. <i>Nature Communications</i> , 2018 , 9, 250	17.4	28
24	Hypoxic Signaling and the Cellular Redox Tumor Environment Determine Sensitivity to MTH1 Inhibition. <i>Cancer Research</i> , 2016 , 76, 2366-75	10.1	28
23	Addiction to MTH1 protein results in intense expression in human breast cancer tissue as measured by liquid chromatography-isotope-dilution tandem mass spectrometry. <i>DNA Repair</i> , 2015 , 33, 101-10	4.3	25
22	Structural basis of inhibition of the human serine hydroxymethyltransferase SHMT2 by antifolate drugs. <i>FEBS Letters</i> , 2019 , 593, 1863-1873	3.8	18
21	dUTPase inhibition augments replication defects of 5-Fluorouracil. <i>Oncotarget</i> , 2017 , 8, 23713-23726	3.3	18
20	Piperazin-1-ylpyridazine Derivatives Are a Novel Class of Human dCTP Pyrophosphatase 1 Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 4279-4292	8.3	14

19	Identification of Triazolothiadiazoles as Potent Inhibitors of the dCTP Pyrophosphatase 1. <i>Journal of Medicinal Chemistry</i> , 2017 , 60, 2148-2154	8.3	12
18	Novel Broad-Spectrum Antiviral Inhibitors Targeting Host Factors Essential for Replication of Pathogenic RNA Viruses. <i>Viruses</i> , 2020 , 12,	6.2	9
17	Crystal Structures and Inhibitor Interactions of Mouse and Dog MTH1 Reveal Species-Specific Differences in Affinity. <i>Biochemistry</i> , 2018 , 57, 593-603	3.2	8
16	Targeting OGG1 arrests cancer cell proliferation by inducing replication stress. <i>Nucleic Acids Research</i> , 2020 , 48, 12234-12251	20.1	8
15	MutT homologue 1 (MTH1) catalyzes the hydrolysis of mutagenic O6-methyl-dGTP. <i>Nucleic Acids Research</i> , 2018 , 46, 10888-10904	20.1	8
14	Production, Purification, and Characterization of ¹⁵ N-Labeled DNA Repair Proteins as Internal Standards for Mass Spectrometric Measurements. <i>Methods in Enzymology</i> , 2016 , 566, 305-32	1.7	7
13	Germline variation in the oxidative DNA repair genes NUDT1 and OGG1 is not associated with hereditary colorectal cancer or polyposis. <i>Human Mutation</i> , 2018 , 39, 1214-1225	4.7	6
12	Crystal structures of human PAICS reveal substrate and product binding of an emerging cancer target. <i>Journal of Biological Chemistry</i> , 2020 , 295, 11656-11668	5.4	6
11	Development of a chemical probe against NUDT15. <i>Nature Chemical Biology</i> , 2020 , 16, 1120-1128	11.7	5
10	Human NUDT22 Is a UDP-Glucose/Galactose Hydrolase Exhibiting a Unique Structural Fold. <i>Structure</i> , 2018 , 26, 295-303.e6	5.2	4
9	Diverse heterocyclic scaffolds as dCTP pyrophosphatase 1 inhibitors. Part 2: Pyridone- and pyrimidinone-derived systems. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 3219-3225	2.9	3
8	MutT homologue 1 (MTH1) removes N6-methyl-dATP from the dNTP pool. <i>Journal of Biological Chemistry</i> , 2020 , 295, 4761-4772	5.4	3
7	MTH1 promotes mitotic progression to avoid oxidative DNA damage in cancer cells		3
6	Crystal Structure and Substrate Specificity of the 8-oxo-dGTP Hydrolase NUDT1 from Arabidopsis thaliana. <i>Biochemistry</i> , 2019 , 58, 887-899	3.2	3
5	Diverse heterocyclic scaffolds as dCTP pyrophosphatase 1 inhibitors. Part 1: Triazoles, triazolopyrimidines, triazinoindoles, quinoline hydrazones and arylpiperazines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2017 , 27, 3897-3904	2.9	2
4	Crystal structures of NUDT15 variants enabled by a potent inhibitor reveal the structural basis for thiopurine sensitivity. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100568	5.4	2
3	Pharmacological targeting of MTHFD2 suppresses acute myeloid leukemia by inducing thymidine depletion and replication stress.. <i>Nature Cancer</i> , 2022 , 3, 156-172	15.4	2
2	The First Structure of an Active Mammalian dCTPase and its Complexes With Substrate Analogs and Products. <i>Journal of Molecular Biology</i> , 2020 , 432, 1126-1142	6.5	1

- 1 NUDT15-mediated hydrolysis limits the efficacy of anti-HCMV drug ganciclovir. *Cell Chemical Biology*, **2021**,

8.2 1