Antonello Mai

List of Publications by Citations

333 papers	12,479 citations	59 h-index	92 g-index
375 ext. papers	14,373 ext. citations	6.3 avg, IF	6.16 L-index

#	Paper	IF	Citations
333	TNF/p38α polycomb signaling to Pax7 locus in satellite cells links inflammation to the epigenetic control of muscle regeneration. *Cell Stem Cell*, **2010**, 7, 455-69	18	309
332	Histone deacetylation in epigenetics: an attractive target for anticancer therapy. *Medicinal Research Reviews*, **2005**, 25, 261-309	14.4	278
331	BLUEPRINT to decode the epigenetic signature written in blood. *Nature Biotechnology*, **2012**, 30, 224-6	44.5	261
330	The International Human Epigenome Consortium: A Blueprint for Scientific Collaboration and Discovery. *Cell*, **2016**, 167, 1145-1149	56.2	232
329	Biochemical, structural, and biological evaluation of tranylcypromine derivatives as inhibitors of histone demethylases LSD1 and LSD2. *Journal of the American Chemical Society*, **2010**, 132, 6827-33	16.4	223
328	Salermide, a Sirtuin inhibitor with a strong cancer-specific proapoptotic effect. *Oncogene*, **2009**, 28, 781-91	9.2	221
327	HDAC2 blockade by nitric oxide and histone deacetylase inhibitors reveals a common target in Duchenne muscular dystrophy treatment. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 19183-7	11.5	212
326	Class II (IIa)-selective histone deacetylase inhibitors. 1. Synthesis and biological evaluation of novel (aryloxopropenyl)pyrrolyl hydroxyamides. *Journal of Medicinal Chemistry*, **2005**, 48, 3344-53	8.3	179
325	Sirtuin functions and modulation: from chemistry to the clinic. *Clinical Epigenetics*, **2016**, 8, 61	7.7	176
324	Inhibition of class I histone deacetylases unveils a mitochondrial signature and enhances oxidative metabolism in skeletal muscle and adipose tissue. *Diabetes*, **2013**, 62, 732-42	0.9	165
323	Oxidative stress and epigenetic regulation in ageing and age-related diseases. *International Journal of Molecular Sciences*, **2013**, 14, 17643-63	6.3	162
322	Epi-drugs to fight cancer: from chemistry to cancer treatment, the road ahead. *International Journal of Biochemistry and Cell Biology*, **2009**, 41, 199-213	5.6	158
321	Targeting Histone Demethylases: A New Avenue for the Fight against Cancer. *Genes and Cancer*, **2011**, 2, 663-79	2.9	156
320	SIRT5 regulation of ammonia-induced autophagy and mitophagy. *Autophagy*, **2015**, 11, 253-70	10.2	155
319	Design, synthesis, and biological evaluation of sirtinol analogues as class III histone/protein deacetylase (Sirtuin) inhibitors. *Journal of Medicinal Chemistry*, **2005**, 48, 7789-95	8.3	147
318	HDAC4-regulated STAT1 activation mediates platinum resistance in ovarian cancer. *Cancer Research* , **2011**, 71, 4412-22	10.1	132
317	epigenetic multiple ligands: mixed histone/protein methyltransferase, acetyltransferase, and class III deacetylase (sirtuin) inhibitors. *Journal of Medicinal Chemistry*, **2008**, 51, 2279-90	8.3	125

316	Small-molecule inhibitors of histone acetyltransferase activity: identification and biological properties. *Journal of Medicinal Chemistry*, **2006**, 49, 6897-907	8.3	119
315	Study of 1,4-dihydropyridine structural scaffold: discovery of novel sirtuin activators and inhibitors. *Journal of Medicinal Chemistry*, **2009**, 52, 5496-504	8.3	117
314	Inhibition of histone deacetylase class I but not class II is critical for the sensitization of leukemic cells to tumor necrosis factor-related apoptosis-inducing ligand-induced apoptosis. *Cancer Research* , **2006**, 66, 6785-92	10.1	117
313	Targeting the CoREST complex with dual histone deacetylase and demethylase inhibitors. *Nature Communications*, **2018**, 9, 53	17.4	116
312	Selective class II HDAC inhibitors impair myogenesis by modulating the stability and activity of HDAC-MEF2 complexes. *EMBO Reports*, **2009**, 10, 776-82	6.5	109
311	Nitric oxide modulates chromatin folding in human endothelial cells via protein phosphatase 2A activation and class II histone deacetylases nuclear shuttling. *Circulation Research*, **2008**, 102, 51-8	15.7	106
310	3-(4-Aroyl-1-methyl-1H-2-pyrrolyl)-N-hydroxy-2-alkylamides as a new class of synthetic histone deacetylase inhibitors. 1. Design, synthesis, biological evaluation, and binding mode studies performed through three different docking procedures. *Journal of Medicinal Chemistry*, **2003**, 46, 512-24	8.3	104
309	5-Alkyl-2-(alkylthio)-6-(2,6-dihalophenylmethyl)-3, 4-dihydropyrimidin-4(3H)-ones: novel potent and selective dihydro-alkoxy-benzyl-oxopyrimidine derivatives. *Journal of Medicinal Chemistry*, **1999**, 42, 619-27	8.3	102
308	Specific control of pancreatic endocrine □and □cell mass by class IIa histone deacetylases HDAC4, HDAC5, and HDAC9. *Diabetes*, **2011**, 60, 2861-71	0.9	100
307	Dihydro(alkylthio)(naphthylmethyl)oxopyrimidines: novel non-nucleoside reverse transcriptase inhibitors of the S-DABO series. *Journal of Medicinal Chemistry*, **1997**, 40, 1447-54	8.3	97
306	The emerging role of epigenetics in human autoimmune disorders. *Clinical Epigenetics*, **2019**, 11, 34	7.7	97
305	Pan-histone demethylase inhibitors simultaneously targeting Jumonji C and lysine-specific demethylases display high anticancer activities. *Journal of Medicinal Chemistry*, **2014**, 57, 42-55	8.3	94
304	Epi-drugs in combination with immunotherapy: a new avenue to improve anticancer efficacy. *Clinical Epigenetics*, **2017**, 9, 59	7.7	93
303	Identification of long chain alkylidenemalonates as novel small molecule modulators of histone acetyltransferases. *Bioorganic and Medicinal Chemistry Letters*, **2008**, 18, 2788-92	2.9	91
302	"Shock and kill" effects of class I-selective histone deacetylase inhibitors in combination with the glutathione synthesis inhibitor buthionine sulfoximine in cell line models for HIV-1 quiescence. *Retrovirology*, **2009**, 6, 52	3.6	90
301	Small molecule inhibitors of histone arginine methyltransferases: homology modeling, molecular docking, binding mode analysis, and biological evaluations. *Journal of Medicinal Chemistry*, **2007**, 50, 1241-53	8.3	88
300	Synthesis and anti-HIV-1 activity of thio analogues of dihydroalkoxybenzyloxopyrimidines. *Journal of Medicinal Chemistry*, **1995**, 38, 3258-63	8.3	86
299	Selective non-nucleoside inhibitors of human DNA methyltransferases active in cancer including in cancer stem cells. *Journal of Medicinal Chemistry*, **2014**, 57, 701-13	8.3	84

298	Nε-lysine acetylation determines dissociation from GAP junctions and lateralization of connexin 43 in normal and dystrophic heart. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 2795-800	11.5	82
297	Specific activity of class II histone deacetylases in human breast cancer cells. *Molecular Cancer Research*, **2008**, 6, 1908-19	6.6	82
296	Structural Basis of Sirtuin 6 Activation by Synthetic Small Molecules. *Angewandte Chemie - International Edition*, **2017**, 56, 1007-1011	16.4	80
295	Computer-aided design, synthesis, and anti-HIV-1 activity in vitro of 2-alkylamino-6-[1-(2,6-difluorophenyl)alkyl]-3,4-dihydro-5-alkylpyrimidin-4(3H)-ones as novel potent non-nucleoside reverse transcriptase inhibitors, also active against the Y181C variant. *Journal of Medicinal Chemistry*, **2004**, 47, 928-34	8.3	80
294	Correction for Colussi et al., HDAC2 blockade by nitric oxide and histone deacetylase inhibitors reveals a common target in Duchenne muscular dystrophy treatment. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 1679-1679	11.5	78
293	Histone acetyltransferase inhibitors and preclinical studies. *Expert Opinion on Therapeutic Patents*, **2009**, 19, 761-74	6.8	76
292	Structure-based design, synthesis, and biological evaluation of conformationally restricted novel 2-alkylthio-6-[1-(2,6-difluorophenyl)alkyl]-3,4-dihydro-5-alkylpyrimidin-4(3H)-ones as non-nucleoside inhibitors of HIV-1 reverse transcriptase. *Journal of Medicinal Chemistry*, **2001**, 44, 2544-54	8.3	76
291	Discovery of uracil-based histone deacetylase inhibitors able to reduce acquired antifungal resistance and trailing growth in Candida albicans. *Bioorganic and Medicinal Chemistry Letters*, **2007**, 17, 1221-5	2.9	75
290	3-(4-aroyl-1H-pyrrol-2-yl)-N-hydroxy-2-propenamides, a new class of synthetic histone deacetylase inhibitors. *Journal of Medicinal Chemistry*, **2001**, 44, 2069-72	8.3	75
289	1,3,4-Oxadiazole-containing histone deacetylase inhibitors: anticancer activities in cancer cells. *Journal of Medicinal Chemistry*, **2014**, 57, 6259-65	8.3	73
288	p300/CBP-associated factor selectively regulates the extinction of conditioned fear. *Journal of Neuroscience*, **2012**, 32, 11930-41	6.6	72
287	Histone deacetylase-3 activation promotes tumor necrosis factor-alpha (TNF-alpha) expression in cardiomyocytes during lipopolysaccharide stimulation. *Journal of Biological Chemistry*, **2010**, 285, 9429-9436	5.4	72
286	Discovery of salermide-related sirtuin inhibitors: binding mode studies and antiproliferative effects in cancer cells including cancer stem cells. *Journal of Medicinal Chemistry*, **2012**, 55, 10937-47	8.3	70
285	3,4-Dihydro-2-Alkoxy-6-Benzyl-4-Oxopyrimidines (DABOs): A New Class of Specific Inhibitors of Human Immunodeficiency Virus Type 1. *Antiviral Chemistry and Chemotherapy*, **1993**, 4, 361-368	3.5	69
284	Sirtuin function in aging heart and vessels. *Journal of Molecular and Cellular Cardiology*, **2015**, 83, 55-61	5.8	67
283	Gold drug auranofin restricts the viral reservoir in the monkey AIDS model and induces containment of viral load following ART suspension. *Aids*, **2011**, 25, 1347-56	3.5	65
282	Histone deacetylase inhibitors and neurodegenerative disorders: holding the promise. *Current Pharmaceutical Design*, **2009**, 15, 3940-57	3.3	63
281	Development of 1,2,4-Oxadiazoles as Potent and Selective Inhibitors of the Human Deacetylase Sirtuin 2: Structure-Activity Relationship, X-ray Crystal Structure, and Anticancer Activity. *Journal of Medicinal Chemistry*, **2017**, 60, 2344-2360	8.3	61

280	Discovery of (aryloxopropenyl)pyrrolyl hydroxyamides as selective inhibitors of class IIa histone deacetylase homologue HD1-A. *Journal of Medicinal Chemistry*, **2003**, 46, 4826-9	8.3	61
279	Histone deacetylase inhibitors induce thyroid cancer-specific apoptosis through proteasome-dependent inhibition of TRAIL degradation. *Oncogene*, **2010**, 29, 105-16	9.2	60
278	The emerging role of histone lysine demethylases in prostate cancer. *Molecular Cancer*, **2012**, 11, 52	42.1	59
277	Role of endogenous reverse transcriptase in murine early embryo development. *Molecular Reproduction and Development*, **2003**, 66, 225-36	2.6	59
276	3-(4-Aroyl-1-methyl-1H-pyrrol-2-yl)-N-hydroxy-2-propenamides as a new class of synthetic histone deacetylase inhibitors. 3. Discovery of novel lead compounds through structure-based drug design and docking studies. *Journal of Medicinal Chemistry*, **2004**, 47, 1351-9	8.3	59
275	Binding mode analysis of 3-(4-benzoyl-1-methyl-1H-2-pyrrolyl)-N-hydroxy-2-propenamide: a new synthetic histone deacetylase inhibitor inducing histone hyperacetylation, growth inhibition, and terminal cell differentiation. *Journal of Medicinal Chemistry*, **2002**, 45, 1778-84	8.3	59
274	A nitric oxide-dependent cross-talk between class I and III histone deacetylases accelerates skin repair. *Journal of Biological Chemistry*, **2013**, 288, 11004-12	5.4	58
273	The emerging role of lysine methyltransferase SETD8 in human diseases. *Clinical Epigenetics*, **2016**, 8, 102	7.7	58
272	The histone acetylase activator pentadecylidenemalonate 1b rescues proliferation and differentiation in the human cardiac mesenchymal cells of type 2 diabetic patients. *Diabetes*, **2014**, 63, 2132-47	0.9	57
271	Novel 3,5-bis(bromohydroxybenzylidene)piperidin-4-ones as coactivator-associated arginine methyltransferase 1 inhibitors: enzyme selectivity and cellular activity. *Journal of Medicinal Chemistry*, **2011**, 54, 4928-32	8.3	57
270	3-(4-Aroyl-1-methyl-1H-2-pyrrolyl)-N-hydroxy-2-propenamides as a new class of synthetic histone deacetylase inhibitors. 2. Effect of pyrrole-C2 and/or -C4 substitutions on biological activity. *Journal of Medicinal Chemistry*, **2004**, 47, 1098-109	8.3	56
269	Identification of 4-hydroxyquinolines inhibitors of p300/CBP histone acetyltransferases. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 1132-5	2.9	55
268	Interplay among nucleosomal DNA, histone tails, and corepressor CoREST underlies LSD1-mediated H3 demethylation. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 2752-7	11.5	54
267	Synthesis and biological properties of novel 2-aminopyrimidin-4(3H)-ones highly potent against HIV-1 mutant strains. *Journal of Medicinal Chemistry*, **2007**, 50, 5412-24	8.3	54
266	Lysine Deacetylase Inhibitors in Parasites: Past, Present, and Future Perspectives. *Journal of Medicinal Chemistry*, **2017**, 60, 4780-4804	8.3	53
265	Crystal structures of the mitochondrial deacylase Sirtuin 4 reveal isoform-specific acyl recognition and regulation features. *Nature Communications*, **2017**, 8, 1513	17.4	52
264	Combining 3-D quantitative structure-activity relationship with ligand based and structure based alignment procedures for in silico screening of new hepatitis C virus NS5B polymerase inhibitors. *Journal of Chemical Information and Modeling*, **2010**, 50, 662-76	6.1	52
263	Synthesis and biological properties of novel, uracil-containing histone deacetylase inhibitors. *Journal of Medicinal Chemistry*, **2006**, 49, 6046-56	8.3	51

262	Discovery of a Novel Inhibitor of Histone Lysine-Specific Demethylase 1A (KDM1A/LSD1) as Orally Active Antitumor Agent. *Journal of Medicinal Chemistry*, **2016**, 59, 1501-17	8.3	50
261	Protein recognition by short peptide reversible inhibitors of the chromatin-modifying LSD1/CoREST lysine demethylase. *ACS Chemical Biology*, **2013**, 8, 1677-82	4.9	50
260	Class II HDAC inhibition hampers hepatic stellate cell activation by induction of microRNA-29. *PLoS ONE*, **2013**, 8, e55786	3.7	50
259	5-Alkyl-6-benzyl-2-(2-oxo-2-phenylethylsulfanyl)pyrimidin-4(3H)-ones, a series of anti-HIV-1 agents of the dihydro-alkoxy-benzyl-oxopyrimidine family with peculiar structure-activity relationship profile. *Journal of Medicinal Chemistry*, **2008**, 51, 4641-52	8.3	50
258	Six Years (2012-2018) of Researches on Catalytic EZH2 Inhibitors: The Boom of the 2-Pyridone Compounds. *Chemical Record*, **2018**, 18, 1818-1832	6.6	50
257	The Polycomb group (PcG) protein EZH2 supports the survival of PAX3-FOXO1 alveolar rhabdomyosarcoma by repressing FBXO32 (Atrogin1/MAFbx). *Oncogene*, **2014**, 33, 4173-84	9.2	49
256	An analog of BIX-01294 selectively inhibits a family of histone H3 lysine 9 Jumonji demethylases. *Journal of Molecular Biology*, **2012**, 416, 319-27	6.5	49
255	Design, synthesis and biological evaluation of carboxy analogues of arginine methyltransferase inhibitor 1 (AMI-1). *ChemMedChem*, **2010**, 5, 398-414	3.7	49
254	Sirtinol treatment reduces inflammation in human dermal microvascular endothelial cells. *PLoS ONE*, **2011**, 6, e24307	3.7	49
253	Epigenetic polypharmacology: A new frontier for epi-drug discovery. *Medicinal Research Reviews*, **2020**, 40, 190-244	14.4	49
252	Pharmacological activation of SIRT6 triggers lethal autophagy in human cancer cells. *Cell Death and Disease*, **2018**, 9, 996	9.8	49
251	Pharmacological inhibition of EZH2 as a promising differentiation therapy in embryonal RMS. *BMC Cancer*, **2014**, 14, 139	4.8	48
250	HDACs class II-selective inhibition alters nuclear receptor-dependent differentiation. *Journal of Molecular Endocrinology*, **2010**, 45, 219-28	4.5	48
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247	Antimalarial and antileishmanial activities of aroyl-pyrrolyl-hydroxyamides, a new class of histone deacetylase inhibitors. *Antimicrobial Agents and Chemotherapy*, **2004**, 48, 1435-6	5.9	48
246	Emerging approaches for histone deacetylase inhibitor drug discovery. *Expert Opinion on Drug Discovery*, **2015**, 10, 599-613	6.2	47
245	The therapeutic uses of chromatin-modifying agents. *Expert Opinion on Therapeutic Targets*, **2007**, 11, 835-51	6.4	47

244	5-Alkyl-2-alkylamino-6-(2,6-difluorophenylalkyl)-3,4-dihydropyrimidin-4(3H)-ones, a new series of potent, broad-spectrum non-nucleoside reverse transcriptase inhibitors belonging to the DABO family. *Bioorganic and Medicinal Chemistry*, **2005**, 13, 2065-77	3.4	46
243	Novel histone deacetylase inhibitors induce growth arrest, apoptosis, and differentiation in sarcoma cancer stem cells. *Journal of Medicinal Chemistry*, **2015**, 58, 4073-9	8.3	45
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240	Synthesis and Antiviral Activity of New 3,4-Dihydro-2-Alkoxy-6-Benzyl-4-Oxopyrimidines (DABOs), Specific Inhibitors of Human Immunodeficiency Virus Type 1. *Antiviral Chemistry and Chemotherapy*, **1995**, 6, 1-8	3.5	45
239	Diarylpyrimidine-dihydrobenzyloxopyrimidine hybrids: new, wide-spectrum anti-HIV-1 agents active at (sub)-nanomolar level. *Journal of Medicinal Chemistry*, **2011**, 54, 3091-6	8.3	44
238	A photoreactive small-molecule probe for 2-oxoglutarate oxygenases. *Chemistry and Biology*, **2011**, 18, 642-654		44
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236	Selective targeting of HDAC1/2 elicits anticancer effects through Gli1 acetylation in preclinical models of SHH Medulloblastoma. *Scientific Reports*, **2017**, 7, 44079	4.9	43
235	Evaluation of a large library of (thiazol-2-yl)hydrazones and analogues as histone acetyltransferase inhibitors: enzyme and cellular studies. *European Journal of Medicinal Chemistry*, **2014**, 80, 569-78	6.8	43
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233	DNA Methyltransferases Inhibitors from Natural Sources. *Current Topics in Medicinal Chemistry*, **2016**, 16, 680-96	3	43
232	Sirtuin modulators control reactive gliosis in an in vitro model of Alzheimer's disease. *Frontiers in Pharmacology*, **2014**, 5, 89	5.6	42
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227	Polymyxins and quinazolines are LSD1/KDM1A inhibitors with unusual structural features. *Science Advances*, **2016**, 2, e1601017	14.3	39

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224	Chronic stress and antidepressant induced changes in Hdac5 and Sirt2 affect synaptic plasticity. *European Neuropsychopharmacology*, **2015**, 25, 2036-48	1.2	38
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221	A novel cell-permeable, selective, and noncompetitive inhibitor of KAT3 histone acetyltransferases from a combined molecular pruning/classical isosterism approach. *Journal of Medicinal Chemistry*, **2015**, 58, 2779-98	8.3	37
220	The histone acetyltransferase p300 inhibitor C646 reduces pro-inflammatory gene expression and inhibits histone deacetylases. *Biochemical Pharmacology*, **2016**, 102, 130-140	6	37
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214	3-D QSAR studies on histone deacetylase inhibitors. A GOLPE/GRID approach on different series of compounds. *Journal of Chemical Information and Modeling*, **2006**, 46, 1420-30	6.1	36
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211	Histone deacetylase inhibitors exert anti-tumor effects on human adherent and stem-like glioma cells. *Clinical Epigenetics*, **2019**, 11, 11	7.7	35
210	The Innovative Potential of Statins in Cancer: New Targets for New Therapies. *Frontiers in Chemistry* , **2020**, 8, 516	5	34
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197	Context-selective death of acute myeloid leukemia cells triggered by the novel hybrid retinoid-HDAC inhibitor MC2392. *Cancer Research*, **2014**, 74, 2328-39	10.1	30
196	Synthesis and biological evaluation of N-hydroxyphenylacrylamides and N-hydroxypyridin-2-ylacrylamides as novel histone deacetylase inhibitors. *Journal of Medicinal Chemistry*, **2010**, 53, 822-39	8.3	30
195	Properly substituted analogues of BIX-01294 lose inhibition of G9a histone methyltransferase and gain selective anti-DNA methyltransferase 3A activity. *PLoS ONE*, **2014**, 9, e96941	3.7	29
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193	Simplification of the tetracyclic SIRT1-selective inhibitor MC2141: coumarin- and pyrimidine-based SIRT1/2 inhibitors with different selectivity profile. *Bioorganic and Medicinal Chemistry*, **2011**, 19, 3659-68	3.4	28
192	Proteomic profile of differentially expressed plasma proteins from dystrophic mice and following suberoylanilide hydroxamic acid treatment. *Proteomics - Clinical Applications*, **2010**, 4, 71-83	3.1	28
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