Cheryl H Arrowsmith

List of Publications by Year in Descending Order

369 papers	26,213 citations	84 h-index	149 g-index
413 ext. papers	30,280 ext. citations	10 avg, IF	6.45 L-index

#	Paper	IF	Citations
369	Validating Small Molecule Chemical Probes for Biological Discovery.. *Annual Review of Biochemistry*, **2022**,	29.1	3
368	PRMT5 regulates ATF4 transcript splicing and oxidative stress response.. *Redox Biology*, **2022**, 51, 102282	11.3	1
367	PRMT inhibition induces a viral mimicry response in triple-negative breast cancer.. *Nature Chemical Biology*, **2022**,	11.7	3
366	A chemical probe targeting the PWWP domain alters NSD2 nucleolar localization. *Nature Chemical Biology*, **2021**,	11.7	6
365	Structure-Activity Relationship of USP5 Inhibitors. *Journal of Medicinal Chemistry*, **2021**, 64, 15017-15036	8.3	0
364	Chemical Genetics Screen Identifies COPB2 Tool Compounds That Alters ER Stress Response and Induces RTK Dysregulation in Lung Cancer Cells. *Journal of Molecular Biology*, **2021**, 433, 167294	6.5	2
363	Protein arginine methylation: from enigmatic functions to therapeutic targeting. *Nature Reviews Drug Discovery*, **2021**, 20, 509-530	64.1	35
362	Design, Synthesis, and Evaluation of WD-Repeat-Containing Protein 5 (WDR5) Degraders. *Journal of Medicinal Chemistry*, **2021**, 64, 10682-10710	8.3	9
361	Discovery of the SMYD3 Inhibitor BAY-6035 Using Thermal Shift Assay (TSA)-Based High-Throughput Screening. *SLAS Discovery*, **2021**, 26, 947-960	3.4	3
360	MYC protein interactors in gene transcription and cancer. *Nature Reviews Cancer*, **2021**, 21, 579-591	31.3	17
359	Identification of lysine isobutyrylation as a new histone modification mark. *Nucleic Acids Research*, **2021**, 49, 177-189	20.1	10
358	Identifying and Validating MYC:Protein Interactors in Pursuit of Novel Anti-MYC Therapies. *Methods in Molecular Biology*, **2021**, 2318, 45-67	1.4	
357	A First-in-Class, Highly Selective and Cell-Active Allosteric Inhibitor of Protein Arginine Methyltransferase 6. *Journal of Medicinal Chemistry*, **2021**, 64, 3697-3706	8.3	4
356	Discovery of Small-Molecule Antagonists of the PWWP Domain of NSD2. *Journal of Medicinal Chemistry*, **2021**, 64, 1584-1592	8.3	8
355	RNF168 regulates R-loop resolution and genomic stability in BRCA1/2-deficient tumors. *Journal of Clinical Investigation*, **2021**, 131,	15.9	11
354	PRMT5 inhibition disrupts splicing and stemness in glioblastoma. *Nature Communications*, **2021**, 12, 979	17.4	23
353	Rational Design and Synthesis of Selective PRMT4 Inhibitors: A New Chemotype for Development of Cancer Therapeutics*. *ChemMedChem*, **2021**, 16, 1116-1125	3.7	1

352	Huntingtin structure is orchestrated by HAP40 and shows a polyglutamine expansion-specific interaction with exon 1. *Communications Biology*, **2021**, 4, 1374	6.7	1
351	Discovery of a First-in-Class Protein Arginine Methyltransferase 6 (PRMT6) Covalent Inhibitor. *Journal of Medicinal Chemistry*, **2020**, 63, 5477-5487	8.3	9
350	Pharmacological inhibition of PRMT7 links arginine monomethylation to the cellular stress response. *Nature Communications*, **2020**, 11, 2396	17.4	29
349	Epigenetic Switch-Induced Viral Mimicry Evasion in Chemotherapy-Resistant Breast Cancer. *Cancer Discovery*, **2020**, 10, 1312-1329	24.4	34
348	Alternative splicing and allosteric regulation modulate the chromatin binding of UHRF1. *Nucleic Acids Research*, **2020**, 48, 7728-7747	20.1	6
347	Telomere dysfunction cooperates with epigenetic alterations to impair murine embryonic stem cell fate commitment. *ELife*, **2020**, 9,	8.9	5
346	Metabolic Regulation of the Epigenome Drives Lethal Infantile Ependymoma. *Cell*, **2020**, 181, 1329-1345.e24	36.4	40
345	HMCES Functions in the Alternative End-Joining Pathway of the DNA DSB Repair during Class Switch Recombination in B Cells. *Molecular Cell*, **2020**, 77, 384-394.e4	17.6	17
344	LSD1 represses a neonatal/reparative gene program in adult intestinal epithelium. *Science Advances*, **2020**, 6,	14.3	9
343	GLUT1 inhibition blocks growth of RB1-positive triple negative breast cancer. *Nature Communications*, **2020**, 11, 4205	17.4	41
342	A Semi-automated Organoid Screening Method Demonstrates Epigenetic Control of Intestinal Epithelial Differentiation. *Frontiers in Cell and Developmental Biology*, **2020**, 8, 618552	5.7	6
341	Targeting non-bromodomain chromatin readers. *Nature Structural and Molecular Biology*, **2019**, 26, 863-869	17.6	28
340	A Chemical Probe for Tudor Domain Protein Spindlin1 to Investigate Chromatin Function. *Journal of Medicinal Chemistry*, **2019**, 62, 9008-9025	8.3	19
339	Structural basis of HMCES interactions with abasic DNA and multivalent substrate recognition. *Nature Structural and Molecular Biology*, **2019**, 26, 607-612	17.6	22
338	Pervasive H3K27 Acetylation Leads to ERV Expression and a Therapeutic Vulnerability in H3K27M Gliomas. *Cancer Cell*, **2019**, 35, 782-797.e8	24.3	52
337	A chemical toolbox for the study of bromodomains and epigenetic signaling. *Nature Communications*, **2019**, 10, 1915	17.4	43
336	Discovery of selective activators of PRC2 mutant EED-I363M. *Scientific Reports*, **2019**, 9, 6524	4.9	10
335	AKT drives SOX2 overexpression and cancer cell stemness in esophageal cancer by protecting SOX2 from UBR5-mediated degradation. *Oncogene*, **2019**, 38, 5250-5264	9.2	40

334	Design and characterization of mutant and wildtype huntingtin proteins produced from a toolkit of scalable eukaryotic expression systems. *Journal of Biological Chemistry*, **2019**, 294, 6986-7001	5.4	12
333	Targeting bivalency de-represses Indian Hedgehog and inhibits self-renewal of colorectal cancer-initiating cells. *Nature Communications*, **2019**, 10, 1436	17.4	21
332	The MLL1 trimeric catalytic complex is a dynamic conformational ensemble stabilized by multiple weak interactions. *Nucleic Acids Research*, **2019**, 47, 9433-9447	20.1	7
331	Selective, Small-Molecule Co-Factor Binding Site Inhibition of a Su(var)3-9, Enhancer of Zeste, Trithorax Domain Containing Lysine Methyltransferase. *Journal of Medicinal Chemistry*, **2019**, 62, 7669-7683	8.3	10
330	Therapeutic Targeting of RNA Splicing Catalysis through Inhibition of Protein Arginine Methylation. *Cancer Cell*, **2019**, 36, 194-209.e9	24.3	92
329	Identification and characterization of the first fragment hits for SETDB1 Tudor domain. *Bioorganic and Medicinal Chemistry*, **2019**, 27, 3866-3878	3.4	4
328	Fragment-based discovery of a chemical probe for the PWWP1 domain of NSD3. *Nature Chemical Biology*, **2019**, 15, 822-829	11.7	26
327	Discovery of a Potent and Selective Fragment-like Inhibitor of Methyllysine Reader Protein Spindlin 1 (SPIN1). *Journal of Medicinal Chemistry*, **2019**, 62, 8996-9007	8.3	11
326	Target 2035: probing the human proteome. *Drug Discovery Today*, **2019**, 24, 2111-2115	8.8	62
325	Discovery of Small Molecule Antagonists of the USP5 Zinc Finger Ubiquitin-Binding Domain. *Journal of Medicinal Chemistry*, **2019**, 62, 10144-10155	8.3	2
324	A chemical probe of CARM1 alters epigenetic plasticity against breast cancer cell invasion. *ELife*, **2019**, 8,	8.9	14
323	Discovery of a chemical probe for PRDM9. *Nature Communications*, **2019**, 10, 5759	17.4	13
322	Direct interaction between the PRDM3 and PRDM16 tumor suppressors and the NuRD chromatin remodeling complex. *Nucleic Acids Research*, **2019**, 47, 1225-1238	20.1	16
321	A chemical biology toolbox to study protein methyltransferases and epigenetic signaling. *Nature Communications*, **2019**, 10, 19	17.4	69
320	Characterization of inv(3) cell line OCI-AML-20 with stroma-dependent CD34 expression. *Experimental Hematology*, **2019**, 69, 27-36	3.1	2
319	Arginine methylation of FOXP3 is crucial for the suppressive function of regulatory T cells. *Journal of Autoimmunity*, **2019**, 97, 10-21	15.5	21
318	LLY-283, a Potent and Selective Inhibitor of Arginine Methyltransferase 5, PRMT5, with Antitumor Activity. *ACS Medicinal Chemistry Letters*, **2018**, 9, 612-617	4.3	75
317	Discovery of Ubiquitin Deamidases in the Pathogenic Arsenal of Legionella pneumophila. *Cell Reports*, **2018**, 23, 568-583	10.6	25

316	Revealing the protein propionylation activity of the histone acetyltransferase MOF (males absent on the first). *Journal of Biological Chemistry*, **2018**, 293, 3410-3420	5.4	31
315	Discovery of Small-Molecule Antagonists of the H3K9me3 Binding to UHRF1 Tandem Tudor Domain. *SLAS Discovery*, **2018**, 23, 930-940	3.4	16
314	Identification of Rpl29 as a major substrate of the lysine methyltransferase Set7/9. *Journal of Biological Chemistry*, **2018**, 293, 12770-12780	5.4	10
313	Identification and Structure-Activity Relationship of HDAC6 Zinc-Finger Ubiquitin Binding Domain Inhibitors. *Journal of Medicinal Chemistry*, **2018**, 61, 4517-4527	8.3	27
312	Mammary molecular portraits reveal lineage-specific features and progenitor cell vulnerabilities. *Journal of Cell Biology*, **2018**, 217, 2951-2974	7.3	20
311	TP-064, a potent and selective small molecule inhibitor of PRMT4 for multiple myeloma. *Oncotarget* , **2018**, 9, 18480-18493	3.3	53
310	Discovery of Potent and Selective Allosteric Inhibitors of Protein Arginine Methyltransferase 3 (PRMT3). *Journal of Medicinal Chemistry*, **2018**, 61, 1204-1217	8.3	17
309	Guiding COMPASS: Dpy-30 Positions SET1/MLL Epigenetic Signaling. *Structure*, **2018**, 26, 1567-1570	5.2	
308	MYC Interacts with the G9a Histone Methyltransferase to Drive Transcriptional Repression and Tumorigenesis. *Cancer Cell*, **2018**, 34, 579-595.e8	24.3	52
307	Functional diversification of the NleG effector family in enterohemorrhagic. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 10004-10009	11.5	11
306	DOT1L inhibition attenuates graft-versus-host disease by allogeneic T cells in adoptive immunotherapy models. *Nature Communications*, **2018**, 9, 1915	17.4	14
305	Donated chemical probes for open science. *ELife*, **2018**, 7,	8.9	48
304	The SUV4-20 inhibitor A-196 verifies a role for epigenetics in genomic integrity. *Nature Chemical Biology*, **2017**, 13, 317-324	11.7	62
303	Epigenetic siRNA and Chemical Screens Identify SETD8 Inhibition as a Therapeutic Strategy for p53 Activation in High-Risk Neuroblastoma. *Cancer Cell*, **2017**, 31, 50-63	24.3	54
302	The EED protein-protein interaction inhibitor A-395 inactivates the PRC2 complex. *Nature Chemical Biology*, **2017**, 13, 389-395	11.7	139
301	Discovery of Potent and Selective Inhibitors for G9a-Like Protein (GLP) Lysine Methyltransferase. *Journal of Medicinal Chemistry*, **2017**, 60, 1876-1891	8.3	35
300	Targeting human SET1/MLL family of proteins. *Protein Science*, **2017**, 26, 662-676	6.3	33
299	Discovery of Peptidomimetic Ligands of EED as Allosteric Inhibitors of PRC2. *ACS Combinatorial Science*, **2017**, 19, 161-172	3.9	36

298	The SMX DNA Repair Tri-nuclease. *Molecular Cell*, **2017**, 65, 848-860.e11	17.6	70
297	Early-life antibiotic treatment enhances the pathogenicity of CD4 T cells during intestinal inflammation. *Journal of Leukocyte Biology*, **2017**, 101, 893-900	6.5	19
296	Conformational dynamics of the TTD-PHD histone reader module of the UHRF1 epigenetic regulator reveals multiple histone-binding states, allosteric regulation, and druggability. *Journal of Biological Chemistry*, **2017**, 292, 20947-20959	5.4	23
295	A p53 Super-tumor Suppressor Reveals a Tumor Suppressive p53-Ptpn14-Yap Axis in Pancreatic Cancer. *Cancer Cell*, **2017**, 32, 460-473.e6	24.3	93
294	Small Molecule Antagonists of the Interaction between the Histone Deacetylase 6 Zinc-Finger Domain and Ubiquitin. *Journal of Medicinal Chemistry*, **2017**, 60, 9090-9096	8.3	18
293	WD40 repeat domain proteins: a novel target class?. *Nature Reviews Drug Discovery*, **2017**, 16, 773-786	64.1	101
292	Fate mapping of human glioblastoma reveals an invariant stem cell hierarchy. *Nature*, **2017**, 549, 227-232	50.4	197
291	LSD1-Mediated Epigenetic Reprogramming Drives CENPE Expression and Prostate Cancer Progression. *Cancer Research*, **2017**, 77, 5479-5490	10.1	53
290	ASCL1 Reorganizes Chromatin to Direct Neuronal Fate and Suppress Tumorigenicity of Glioblastoma Stem Cells. *Cell Stem Cell*, **2017**, 21, 209-224.e7	18	78
289	Structural and Functional Survey of Environmental Aminoglycoside Acetyltransferases Reveals Functionality of Resistance Enzymes. *ACS Infectious Diseases*, **2017**, 3, 653-665	5.5	6
288	Global analysis of protein folding using massively parallel design, synthesis, and testing. *Science*, **2017**, 357, 168-175	33.3	241
287	Assay interference and off-target liabilities of reported histone acetyltransferase inhibitors. *Nature Communications*, **2017**, 8, 1527	17.4	64
286	Structure-activity relationship studies of G9a-like protein (GLP) inhibitors. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 4414-4423	3.4	13
285	A Suite of Biochemical Assays for Screening RNA Methyltransferase BCDIN3D. *SLAS Discovery*, **2017**, 22, 32-39	3.4	7
284	Diverse modes of galacto-specific carbohydrate recognition by a family 31 glycoside hydrolase from Clostridium perfringens. *PLoS ONE*, **2017**, 12, e0171606	3.7	10
283	The RNF168 paralog RNF169 defines a new class of ubiquitylated histone reader involved in the response to DNA damage. *ELife*, **2017**, 6,	8.9	30
282	Discovery of a Potent, Selective, and Cell-Active Dual Inhibitor of Protein Arginine Methyltransferase 4 and Protein Arginine Methyltransferase 6. *Journal of Medicinal Chemistry*, **2016**, 59, 9124-9139	8.3	45
281	Solution NMR structure of the HLTF HIRAN domain: a conserved module in SWI2/SNF2 DNA damage tolerance proteins. *Journal of Biomolecular NMR*, **2016**, 66, 209-219	3	11

280	Structure-Based Design of a Covalent Inhibitor of the SET Domain-Containing Protein 8 (SETD8) Lysine Methyltransferase. *Journal of Medicinal Chemistry*, **2016**, 59, 9881-9889	8.3	26
279	Methyltransferase inhibitors for modulation of the epigenome and beyond. *Current Opinion in Chemical Biology*, **2016**, 33, 81-7	9.7	13
278	Functional interdependence of BRD4 and DOT1L in MLL leukemia. *Nature Structural and Molecular Biology*, **2016**, 23, 673-81	17.6	69
277	Discovery of a Potent Class I Protein Arginine Methyltransferase Fragment Inhibitor. *Journal of Medicinal Chemistry*, **2016**, 59, 1176-83	8.3	28
276	Coordination of stress signals by the lysine methyltransferase SMYD2 promotes pancreatic cancer. *Genes and Development*, **2016**, 30, 772-85	12.6	54
275	A cellular chemical probe targeting the chromodomains of Polycomb repressive complex 1. *Nature Chemical Biology*, **2016**, 12, 180-7	11.7	100
274	Structure-Based Optimization of a Small Molecule Antagonist of the Interaction Between WD Repeat-Containing Protein 5 (WDR5) and Mixed-Lineage Leukemia 1 (MLL1). *Journal of Medicinal Chemistry*, **2016**, 59, 2478-96	8.3	48
273	A Radioactivity-Based Assay for Screening Human m6A-RNA Methyltransferase, METTL3-METTL14 Complex, and Demethylase ALKBH5. *Journal of Biomolecular Screening*, **2016**, 21, 290-7		47
272	A Potent, Selective, and Cell-Active Inhibitor of Human Type I Protein Arginine Methyltransferases. *ACS Chemical Biology*, **2016**, 11, 772-781	4.9	131
271	Design of a fluorescent ligand targeting the S-adenosylmethionine binding site of the histone methyltransferase MLL1. *Organic and Biomolecular Chemistry*, **2016**, 14, 631-638	3.9	6
270	BET bromodomain inhibition enhances T cell persistence and function in adoptive immunotherapy models. *Journal of Clinical Investigation*, **2016**, 126, 3479-94	15.9	118
269	Hemi-methylated DNA regulates DNA methylation inheritance through allosteric activation of H3 ubiquitylation by UHRF1. *ELife*, **2016**, 5,	8.9	80
268	Discovery of a Potent and Selective Coactivator Associated Arginine Methyltransferase 1 (CARM1) Inhibitor by Virtual Screening. *Journal of Medicinal Chemistry*, **2016**, 59, 6838-47	8.3	32
267	Integrated (epi)-Genomic Analyses Identify Subgroup-Specific Therapeutic Targets in CNS Rhabdoid Tumors. *Cancer Cell*, **2016**, 30, 891-908	24.3	135
266	A community resource of experimental data for NMR / X-ray crystal structure pairs. *Protein Science*, **2016**, 25, 30-45	6.3	10
265	SETD7 Controls Intestinal Regeneration and Tumorigenesis by Regulating Wnt/Catenin and Hippo/YAP Signaling. *Developmental Cell*, **2016**, 37, 47-57	10.2	64
264	PR Domain-containing Protein 7 (PRDM7) Is a Histone 3 Lysine 4 Trimethyltransferase. *Journal of Biological Chemistry*, **2016**, 291, 13509-19	5.4	18
263	Discovery and Characterization of a Highly Potent and Selective Aminopyrazoline-Based in Vivo Probe (BAY-598) for the Protein Lysine Methyltransferase SMYD2. *Journal of Medicinal Chemistry*, **2016**, 59, 4578-600	8.3	52

262	An Integrative Proteomic Approach Identifies Novel Cellular SMYD2 Substrates. *Journal of Proteome Research*, **2016**, 15, 2052-9	5.6	17
261	Structure-Activity Relationship Studies for Enhancer of Zeste Homologue 2 (EZH2) and Enhancer of Zeste Homologue 1 (EZH1) Inhibitors. *Journal of Medicinal Chemistry*, **2016**, 59, 7617-33	8.3	23
260	Preclinical target validation using patient-derived cells. *Nature Reviews Drug Discovery*, **2015**, 14, 149-50	64.1	40
259	A potent, selective and cell-active allosteric inhibitor of protein arginine methyltransferase 3 (PRMT3). *Angewandte Chemie - International Edition*, **2015**, 54, 5166-70	16.4	78
258	Pharmacological targeting of the Wdr5-MLL interaction in C/EBP□N-terminal leukemia. *Nature Chemical Biology*, **2015**, 11, 571-578	11.7	159
257	The promise and peril of chemical probes. *Nature Chemical Biology*, **2015**, 11, 536-41	11.7	523
256	Probing the epigenome. *Nature Chemical Biology*, **2015**, 11, 542-5	11.7	29
255	Solution-state NMR structure of the putative morphogene protein BolA (PFE0790c) from Plasmodium falciparum. *Acta Crystallographica Section F, Structural Biology Communications*, **2015**, 71, 514-21	1.1	4
254	Assessment of a method to characterize antibody selectivity and specificity for use in immunoprecipitation. *Nature Methods*, **2015**, 12, 725-31	21.6	86
253	Discovery of a Dual PRMT5-PRMT7 Inhibitor. *ACS Medicinal Chemistry Letters*, **2015**, 6, 408-12	4.3	59
252	Cbx2 targets PRC1 to constitutive heterochromatin in mouse zygotes in a parent-of-origin-dependent manner. *Molecular Cell*, **2015**, 58, 157-71	17.6	52
251	Discovery of A-893, A New Cell-Active Benzoxazinone Inhibitor of Lysine Methyltransferase SMYD2. *ACS Medicinal Chemistry Letters*, **2015**, 6, 695-700	4.3	49
250	Tackling reproducibility in academic preclinical drug discovery. *Nature Reviews Drug Discovery*, **2015** , 14, 733-4	64.1	49
249	The second round of Critical Assessment of Automated Structure Determination of Proteins by NMR: CASD-NMR-2013. *Journal of Biomolecular NMR*, **2015**, 62, 413-24	3	21
248	Ductal pancreatic cancer modeling and drug screening using human pluripotent stem cell- and patient-derived tumor organoids. *Nature Medicine*, **2015**, 21, 1364-71	50.5	403
247	LLY-507, a Cell-active, Potent, and Selective Inhibitor of Protein-lysine Methyltransferase SMYD2. *Journal of Biological Chemistry*, **2015**, 290, 13641-53	5.4	83
246	WDR5 Supports an N-Myc Transcriptional Complex That Drives a Protumorigenic Gene Expression Signature in Neuroblastoma. *Cancer Research*, **2015**, 75, 5143-54	10.1	52
245	Structural Characterization of Interaction between Human Ubiquitin-specific Protease 7 and Immediate-Early Protein ICP0 of Herpes Simplex Virus-1. *Journal of Biological Chemistry*, **2015**, 290, 22907-18	5.4	26

244	Gain-of-function p53 mutants co-opt chromatin pathways to drive cancer growth. *Nature*, **2015**, 525, 206-11	50.4	294
243	MLL5 Orchestrates a Cancer Self-Renewal State by Repressing the Histone Variant H3.3 and Globally Reorganizing Chromatin. *Cancer Cell*, **2015**, 28, 715-729	24.3	64
242	A Potent, Selective and Cell-Active Allosteric Inhibitor of Protein Arginine Methyltransferase 3 (PRMT3). *Angewandte Chemie*, **2015**, 127, 5255-5259	3.6	2
241	Optimizing Production of Antigens and Fabs in the Context of Generating Recombinant Antibodies to Human Proteins. *PLoS ONE*, **2015**, 10, e0139695	3.7	20
240	Kinetic characterization of human histone H3 lysine 36 methyltransferases, ASH1L and SETD2. *Biochimica Et Biophysica Acta - General Subjects*, **2015**, 1850, 1842-8	4	31
239	Identification of a fragment-like small molecule ligand for the methyl-lysine binding protein, 53BP1. *ACS Chemical Biology*, **2015**, 10, 1072-81	4.9	44
238	KCMF1 (potassium channel modulatory factor 1) Links RAD6 to UBR4 (ubiquitin N-recognin domain-containing E3 ligase 4) and lysosome-mediated degradation. *Molecular and Cellular Proteomics*, **2015**, 14, 674-85	7.6	17
237	The study of epigenetic mechanisms based on the analysis of histone modification patterns by flow cytometry. *Cytometry Part A: the Journal of the International Society for Analytical Cytology*, **2014**, 85, 78-87	4.6	10
236	Self-renewal as a therapeutic target in human colorectal cancer. *Nature Medicine*, **2014**, 20, 29-36	50.5	361
235	A Basic Post-SET Extension of NSDs Is Essential for Nucleosome Binding In Vitro. *Journal of Biomolecular Screening*, **2014**, 19, 928-35		21
234	Discovery of a selective, substrate-competitive inhibitor of the lysine methyltransferase SETD8. *Journal of Medicinal Chemistry*, **2014**, 57, 6822-33	8.3	61
233	An unusual mode of galactose recognition by a family 32 carbohydrate-binding module. *Journal of Molecular Biology*, **2014**, 426, 869-80	6.5	15
232	Structural and functional characterization of DUF1471 domains of Salmonella proteins SrfN, YdgH/SssB, and YahO. *PLoS ONE*, **2014**, 9, e101787	3.7	8
231	Trimethylation of histone H3 lysine 36 by human methyltransferase PRDM9 protein. *Journal of Biological Chemistry*, **2014**, 289, 12177-12188	5.4	76
230	RPRD1A and RPRD1B are human RNA polymerase II C-terminal domain scaffolds for Ser5 dephosphorylation. *Nature Structural and Molecular Biology*, **2014**, 21, 686-695	17.6	54
229	(R)-PFI-2 is a potent and selective inhibitor of SETD7 methyltransferase activity in cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 12853-8	11.5	120
228	Structural characterization of a flexible two-domain protein in solution using small angle X-ray scattering and NMR data. *Structure*, **2014**, 22, 1862-1874	5.2	6
227	A global assessment of cancer genomic alterations in epigenetic mechanisms. *Epigenetics and Chromatin*, **2014**, 7, 29	5.8	46

226	Basic Tilted Helix Bundle - a new protein fold in human FKBP25/FKBP3 and HectD1. *Biochemical and Biophysical Research Communications*, **2014**, 447, 26-31	3.4	12
225	Accessibility of different histone H3-binding domains of UHRF1 is allosterically regulated by phosphatidylinositol 5-phosphate. *Molecular Cell*, **2014**, 54, 905-19	17.6	86
224	Structure and function of dioxygenases in histone demethylation and DNA/RNA demethylation. *IUCrJ*, **2014**, 1, 540-9	4.7	21
223	Methyltransferase G9A regulates T cell differentiation during murine intestinal inflammation. *Journal of Clinical Investigation*, **2014**, 124, 1945-55	15.9	57
222	Screening proteins for NMR suitability. *Methods in Molecular Biology*, **2014**, 1140, 169-78	1.4	3
221	Control of the hippo pathway by Set7-dependent methylation of Yap. *Developmental Cell*, **2013**, 26, 188-94	14.2	100
220	The structure-activity relationships of L3MBTL3 inhibitors: flexibility of the dimer interface. *MedChemComm*, **2013**, 4, 1501-1507	5	22
219	Discovery of an in vivo chemical probe of the lysine methyltransferases G9a and GLP. *Journal of Medicinal Chemistry*, **2013**, 56, 8931-42	8.3	155
218	Small-molecule ligands of methyl-lysine binding proteins: optimization of selectivity for L3MBTL3. *Journal of Medicinal Chemistry*, **2013**, 56, 7358-71	8.3	57
217	Structural insights into aldosterone synthase substrate specificity and targeted inhibition. *Molecular Endocrinology*, **2013**, 27, 315-24		97
216	Nahuoic acid A produced by a Streptomyces sp. isolated from a marine sediment is a selective SAM-competitive inhibitor of the histone methyltransferase SETD8. *Organic Letters*, **2013**, 15, 414-7	6.2	56
215	Discovery of a chemical probe for the L3MBTL3 methyllysine reader domain. *Nature Chemical Biology*, **2013**, 9, 184-91	11.7	129
214	Exploiting an allosteric binding site of PRMT3 yields potent and selective inhibitors. *Journal of Medicinal Chemistry*, **2013**, 56, 2110-24	8.3	58
213	An orally bioavailable chemical probe of the Lysine Methyltransferases EZH2 and EZH1. *ACS Chemical Biology*, **2013**, 8, 1324-34	4.9	313
212	Bromo-deaza-SAH: a potent and selective DOT1L inhibitor. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 1787-1794	3.4	54
211	Synthesis, Optimization, and Evaluation of Novel Small Molecules as Antagonists of WDR5-MLL Interaction. *ACS Medicinal Chemistry Letters*, **2013**, 4, 353-7	4.3	39
210	Small-molecule inhibition of MLL activity by disruption of its interaction with WDR5. *Biochemical Journal*, **2013**, 449, 151-9	3.8	100
209	Multivalent histone engagement by the linked tandem Tudor and PHD domains of UHRF1 is required for the epigenetic inheritance of DNA methylation. *Genes and Development*, **2013**, 27, 1288-98	12.6	129

208	Ubiquitin-specific protease 7 is a regulator of ubiquitin-conjugating enzyme UbE2E1. *Journal of Biological Chemistry*, **2013**, 288, 16975-16985	5.4	29
207	The ZIP5 ectodomain co-localizes with PrP and may acquire a PrP-like fold that assembles into a dimer. *PLoS ONE*, **2013**, 8, e72446	3.7	19
206	Solution NMR structure and histone binding of the PHD domain of human MLL5. *PLoS ONE*, **2013**, 8, e77020	3.7	21
205	Structure of the catalytic domain of EZH2 reveals conformational plasticity in cofactor and substrate binding sites and explains oncogenic mutations. *PLoS ONE*, **2013**, 8, e83737	3.7	88
204	Blind testing of routine, fully automated determination of protein structures from NMR data. *Structure*, **2012**, 20, 227-36	5.2	64
203	A human ubiquitin conjugating enzyme (E2)-HECT E3 ligase structure-function screen. *Molecular and Cellular Proteomics*, **2012**, 11, 329-41	7.6	81
202	Sequence-specific recognition of a PxLPxI/L motif by an ankyrin repeat tumbler lock. *Science Signaling*, **2012**, 5, ra39	8.8	33
201	Structural analysis of HopPmaL reveals the presence of a second adaptor domain common to the HopAB family of Pseudomonas syringae type III effectors. *Biochemistry*, **2012**, 51, 1-3	3.2	8
200	An allosteric inhibitor of protein arginine methyltransferase 3. *Structure*, **2012**, 20, 1425-35	5.2	72
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5	Design and characterisation of mutant and wild-type huntingtin proteins produced from a toolkit of scalable eukaryotic expression systems		1
4	A semi-automated organoid screening method demonstrates epigenetic control of intestinal epithelial differentiation		2
3	Discovery of Small-Molecule Antagonists of the PWWP Domain of NSD2		1
2	Pharmacological inhibition of PRMT7 links arginine monomethylation to the cellular stress responses		2
1	Pharmacological targeting of a PWWP domain demonstrates cooperative control of NSD2 localization		1