Laurent Meijer

List of Publications by Citations

300 papers	22,566 citations	72 h-index	142 g-index
313 ext. papers	24,125 ext. citations	6.1 avg, IF	6.33 L-index

#	Paper	IF	Citations
300	Maintenance of pluripotency in human and mouse embryonic stem cells through activation of Wnt signaling by a pharmacological GSK-3-specific inhibitor. *Nature Medicine*, **2004**, 10, 55-63	50.5	1723
299	Biochemical and cellular effects of roscovitine, a potent and selective inhibitor of the cyclin-dependent kinases cdc2, cdk2 and cdk5. *FEBS Journal*, **1997**, 243, 527-36		1068
298	Indirubin, the active constituent of a Chinese antileukaemia medicine, inhibits cyclin-dependent kinases. *Nature Cell Biology*, **1999**, 1, 60-7	23.4	670
297	GSK-3-selective inhibitors derived from Tyrian purple indirubins. *Chemistry and Biology*, **2003**, 10, 1255-66		632
296	Exploiting chemical libraries, structure, and genomics in the search for kinase inhibitors. *Science*, **1998**, 281, 533-8	33.3	631
295	Indirubins inhibit glycogen synthase kinase-3 beta and CDK5/p25, two protein kinases involved in abnormal tau phosphorylation in Alzheimer's disease. A property common to most cyclin-dependent kinase inhibitors?. *Journal of Biological Chemistry*, **2001**, 276, 251-60	5.4	546
294	Inhibition of cyclin-dependent kinases by purine analogues: crystal structure of human cdk2 complexed with roscovitine. *FEBS Journal*, **1997**, 243, 518-26		519
293	Pharmacological inhibitors of glycogen synthase kinase 3. *Trends in Pharmacological Sciences*, **2004**, 25, 471-80	13.2	510
292	Inhibition of cyclin-dependent kinases by purine analogues. *FEBS Journal*, **1994**, 224, 771-86		504
291	cdc2 is a component of the M phase-specific histone H1 kinase: evidence for identity with MPF. *Cell*, **1988**, 55, 371-8	56.2	502
290	Phosphorylation of DARPP-32 by Cdk5 modulates dopamine signalling in neurons. *Nature*, **1999**, 402, 669-71	50.4	483
289	Pharmacological inhibitors of cyclin-dependent kinases. *Trends in Pharmacological Sciences*, **2002**, 23, 417-25	13.2	478
288	Constitutive phosphorylation of the Parkinson's disease associated alpha-synuclein. *Journal of Biological Chemistry*, **2000**, 275, 390-7	5.4	382
287	Roscovitine and other purines as kinase inhibitors. From starfish oocytes to clinical trials. *Accounts of Chemical Research*, **2003**, 36, 417-25	24.3	309
286	Structural basis for the synthesis of indirubins as potent and selective inhibitors of glycogen synthase kinase-3 and cyclin-dependent kinases. *Journal of Medicinal Chemistry*, **2004**, 47, 935-46	8.3	308
285	Paullones are potent inhibitors of glycogen synthase kinase-3beta and cyclin-dependent kinase 5/p25. *FEBS Journal*, **2000**, 267, 5983-94		290
284	Roscovitine targets, protein kinases and pyridoxal kinase. *Journal of Biological Chemistry*, **2005**, 280, 31208-19	5.4	278

283	Paullones, a series of cyclin-dependent kinase inhibitors: synthesis, evaluation of CDK1/cyclin B inhibition, and in vitro antitumor activity. *Journal of Medicinal Chemistry*, **1999**, 42, 2909-19	8.3	275
282	Multiple modes of ligand recognition: crystal structures of cyclin-dependent protein kinase 2 in complex with ATP and two inhibitors, olomoucine and isopentenyladenine. *Proteins: Structure, Function and Bioinformatics*, **1995**, 22, 378-91	4.2	237
281	Synthesis and application of functionally diverse 2,6,9-trisubstituted purine libraries as CDK inhibitors. *Chemistry and Biology*, **1999**, 6, 361-75		217
280	Synthesis, anti-inflammatory, analgesic and kinase (CDK-1, CDK-5 and GSK-3) inhibition activity evaluation of benzimidazole/benzoxazole derivatives and some Schiff's bases. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 3758-65	3.4	213
279	Protein kinase MARK/PAR-1 is required for neurite outgrowth and establishment of neuronal polarity. *Molecular Biology of the Cell*, **2002**, 13, 4013-28	3.5	212
278	Cytokinin-derived cyclin-dependent kinase inhibitors: synthesis and cdc2 inhibitory activity of olomoucine and related compounds. *Journal of Medicinal Chemistry*, **1997**, 40, 408-12	8.3	207
277	Chemical inhibitors of cyclin-dependent kinases. *Trends in Cell Biology*, **1996**, 6, 393-7	18.3	190
276	Meridianins, a new family of protein kinase inhibitors isolated from the ascidian Aplidium meridianum. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 1703-7	2.9	166
275	High developmental competence of cattle oocytes maintained at the germinal vesicle stage for 24 hours in culture by specific inhibition of MPF kinase activity. *Molecular Reproduction and Development*, **2000**, 55, 89-95	2.6	166
274	ATP-site Directed Inhibitors of Cyclin-dependent Kinases. *Current Medicinal Chemistry*, **1999**, 6, 859-875	4.3	165
273	1-Azakenpaullone is a selective inhibitor of glycogen synthase kinase-3 beta. *Bioorganic and Medicinal Chemistry Letters*, **2004**, 14, 413-6	2.9	154
272	Isolation of drugs active against mammalian prions using a yeast-based screening assay. *Nature Biotechnology*, **2003**, 21, 1075-81	44.5	154
271	Mechanism of CDK5/p25 binding by CDK inhibitors. *Journal of Medicinal Chemistry*, **2005**, 48, 671-9	8.3	152
270	Selectivity, cocrystal structures, and neuroprotective properties of leucettines, a family of protein kinase inhibitors derived from the marine sponge alkaloid leucettamine B. *Journal of Medicinal Chemistry*, **2012**, 55, 9312-30	8.3	146
269	Aloisines, a new family of CDK/GSK-3 inhibitors. SAR study, crystal structure in complex with CDK2, enzyme selectivity, and cellular effects. *Journal of Medicinal Chemistry*, **2003**, 46, 222-36	8.3	129
268	The cyclin-dependent kinase inhibitors olomoucine and roscovitine arrest human fibroblasts in G1 phase by specific inhibition of CDK2 kinase activity. *Experimental Cell Research*, **1998**, 245, 8-18	4.2	128
267	Anti-mitotic properties of indirubin-3'-monoxime, a CDK/GSK-3 inhibitor: induction of endoreplication following prophase arrest. *Oncogene*, **2001**, 20, 3786-97	9.2	123
266	Inhibitor binding to active and inactive CDK2: the crystal structure of CDK2-cyclin A/indirubin-5-sulphonate. *Structure*, **2001**, 9, 389-97	5.2	122

265	Inhibition of human immunodeficiency virus type 1 transcription by chemical cyclin-dependent kinase inhibitors. *Journal of Virology*, **2001**, 75, 7266-79	6.6	121
264	Maturation and fertilization in starfish oocytes. *International Review of Cytology*, **1984**, 86, 129-96		120
263	Meriolins (3-(pyrimidin-4-yl)-7-azaindoles): synthesis, kinase inhibitory activity, cellular effects, and structure of a CDK2/cyclin A/meriolin complex. *Journal of Medicinal Chemistry*, **2008**, 51, 737-51	8.3	119
262	Intracellular Targets of Paullones. Identification following affinity purification on immobilized inhibitor. *Journal of Biological Chemistry*, **2002**, 277, 25493-501	5.4	118
261	Synthesis and target identification of hymenialdisine analogs. *Chemistry and Biology*, **2004**, 11, 247-59		115
260	Olomoucine, an inhibitor of the cdc2/cdk2 kinases activity, blocks plant cells at the G1 to S and G2 to M cell cycle transitions. *FEBS Letters*, **1994**, 353, 207-11	3.8	114
259	Sequential dephosphorylation of p34(cdc2) on Thr-14 and Tyr-15 at the prophase/metaphase transition. *Journal of Biological Chemistry*, **1996**, 271, 27847-54	5.4	109
258	Roscovitine-derived, dual-specificity inhibitors of cyclin-dependent kinases and casein kinases 1. *Journal of Medicinal Chemistry*, **2008**, 51, 5229-42	8.3	108
257	Leucettines, a class of potent inhibitors of cdc2-like kinases and dual specificity, tyrosine phosphorylation regulated kinases derived from the marine sponge leucettamine B: modulation of alternative pre-RNA splicing. *Journal of Medicinal Chemistry*, **2011**, 54, 4172-86	8.3	107
256	Anticancer alkaloid lamellarins inhibit protein kinases. *Marine Drugs*, **2008**, 6, 514-27	6	104
255	Cyclic activation of histone H1 kinase during sea urchin egg mitotic divisions. *Experimental Cell Research*, **1988**, 174, 116-29	4.2	102
254	Crystal structure of a human cyclin-dependent kinase 6 complex with a flavonol inhibitor, fisetin. *Journal of Medicinal Chemistry*, **2005**, 48, 737-43	8.3	101
253	Pharmacological cyclin-dependent kinase inhibitors inhibit replication of wild-type and drug-resistant strains of herpes simplex virus and human immunodeficiency virus type 1 by targeting cellular, not viral, proteins. *Journal of Virology*, **2002**, 76, 7874-82	6.6	100
252	Soluble 3',6-substituted indirubins with enhanced selectivity toward glycogen synthase kinase -3 alter circadian period. *Journal of Medicinal Chemistry*, **2008**, 51, 6421-31	8.3	98
251	Degradation of Hof1 by SCF(Grr1) is important for actomyosin contraction during cytokinesis in yeast. *EMBO Journal*, **2005**, 24, 1440-52	13	98
250	Chemical inhibitors of cyclin-dependent kinases. *Methods in Enzymology*, **1997**, 283, 113-28	1.7	96
249	Cyclin-dependent kinases: initial approaches to exploit a novel therapeutic target **1999**, 82, 285-92		94
248	The effect of the cyclin-dependent kinase inhibitor olomoucine on cell cycle kinetics. *Experimental Cell Research*, **1997**, 236, 4-15	4.2	92

247	Roscovitine, a novel cyclin-dependent kinase inhibitor, characterizes restriction point and G2/M transition in tobacco BY-2 cell suspension. *Plant Journal*, **1997**, 12, 191-202	6.9	90
246	Evaluation and comparison of 3D-QSAR CoMSIA models for CDK1, CDK5, and GSK-3 inhibition by paullones. *Journal of Medicinal Chemistry*, **2004**, 47, 22-36	8.3	89
245	Pfnek-1, a NIMA-related kinase from the human malaria parasite Plasmodium falciparum Biochemical properties and possible involvement in MAPK regulation. *FEBS Journal*, **2001**, 268, 2600-8		89
244	Autophagy: a novel mechanism of synergistic cytotoxicity between doxorubicin and roscovitine in a sarcoma model. *Cancer Research*, **2008**, 68, 7966-74	10.1	88
243	Structure-based design and synthesis of 2-benzylidene-benzofuran-3-ones as flavopiridol mimics. *Journal of Medicinal Chemistry*, **2002**, 45, 1741-7	8.3	87
242	Inhibitors of Leishmania mexicana CRK3 cyclin-dependent kinase: chemical library screen and antileishmanial activity. *Antimicrobial Agents and Chemotherapy*, **2004**, 48, 3033-42	5.9	86
241	Synthesis of 3-substituted-2-oxoindole analogues and their evaluation as kinase inhibitors, anticancer and antiangiogenic agents. *European Journal of Medicinal Chemistry*, **2006**, 41, 296-305	6.8	85
240	Meriolins, a new class of cell death inducing kinase inhibitors with enhanced selectivity for cyclin-dependent kinases. *Cancer Research*, **2007**, 67, 8325-34	10.1	84
239	Synthesis and biological evaluation of novel phenylcarbazoles as potential anticancer agents. *Journal of Medicinal Chemistry*, **2006**, 49, 789-99	8.3	84
238	Plasmodium falciparum glycogen synthase kinase-3: molecular model, expression, intracellular localisation and selective inhibitors. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2004**, 1697, 181-96	4	83
237	Purification of GSK-3 by affinity chromatography on immobilized axin. *Protein Expression and Purification*, **2000**, 20, 394-404	2	83
236	Cyclin-dependent kinase inhibition by new C-2 alkynylated purine derivatives and molecular structure of a CDK2-inhibitor complex. *Journal of Medicinal Chemistry*, **2000**, 43, 1282-92	8.3	83
235	Synthesis, protein kinase inhibitory potencies, and in vitro antiproliferative activities of meridianin derivatives. *Journal of Medicinal Chemistry*, **2011**, 54, 4474-89	8.3	82
234	Independent actions on cyclin-dependent kinases and aryl hydrocarbon receptor mediate the antiproliferative effects of indirubins. *Oncogene*, **2004**, 23, 4400-12	9.2	81
233	Synthesis of acridinyl-thiazolino derivatives and their evaluation for anti-inflammatory, analgesic and kinase inhibition activities. *Bioorganic and Medicinal Chemistry*, **2005**, 13, 4291-9	3.4	81
232	Synthesis of novel 5-substituted indirubins as protein kinases inhibitors. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 6434-43	3.4	78
231	Activation of a Plasmodium falciparum cdc2-related kinase by heterologous p25 and cyclin H. Functional characterization of a P. falciparum cyclin homologue. *Journal of Biological Chemistry*, **2000**, 275, 8952-8	5.4	78
230	9-cyano-1-azapaullone (cazpaullone), a glycogen synthase kinase-3 (GSK-3) inhibitor activating pancreatic beta cell protection and replication. *Journal of Medicinal Chemistry*, **2008**, 51, 2196-207	8.3	76

229	Improved tumor control through circadian clock induction by Seliciclib, a cyclin-dependent kinase inhibitor. *Cancer Research*, **2006**, 66, 10720-8	10.1	75
228	Delayed treatment with systemic (S)-roscovitine provides neuroprotection and inhibits in vivo CDK5 activity increase in animal stroke models. *PLoS ONE*, **2010**, 5, e12117	3.7	72
227	Modular asymmetric synthesis of aigialomycin D, a kinase-inhibitory scaffold. *Angewandte Chemie - International Edition*, **2006**, 45, 3951-4	16.4	72
226	Properties and potential-applications of chemical inhibitors of cyclin-dependent kinases **1999**, 82, 279-84		72
225	Inverse in silico screening for identification of kinase inhibitor targets. *Chemistry and Biology*, **2007**, 14, 1207-14		71
224	10-iodo-11H-indolo[3,2-c]quinoline-6-carboxylic acids are selective inhibitors of DYRK1A. *Journal of Medicinal Chemistry*, **2015**, 58, 3131-43	8.3	70
223	Synthesis of chromeno[3,4-b]indoles as Lamellarin D analogues: a novel DYRK1A inhibitor class. *European Journal of Medicinal Chemistry*, **2012**, 49, 379-96	6.8	69
222	Targeting cyclin-dependent kinases in anti-neoplastic therapy. *Current Opinion in Cell Biology*, **2013**, 25, 772-9	9	67
221	Synthesis and biological evaluation of 3,6-diamino-1H-pyrazolo[3,4-b]pyridine derivatives as protein kinase inhibitors. *Bioorganic and Medicinal Chemistry Letters*, **2009**, 19, 4566-9	2.9	67
220	Generation of new protein kinase inhibitors utilizing cytochrome p450 mutant enzymes for indigoid synthesis. *Journal of Medicinal Chemistry*, **2004**, 47, 3236-41	8.3	67
219	2-Substituted paullones: CDK1/cyclin B-inhibiting property and in vitro antiproliferative activity. *Bioorganic and Medicinal Chemistry Letters*, **2000**, 10, 567-9	2.9	67
218	Characterization of maturation-activated histone H1 and ribosomal S6 kinases in sea star oocytes. *Biochemistry*, **1987**, 26, 7960-8	3.2	67
217	Antimalarial drug discovery: targeting protein kinases. *Expert Opinion on Therapeutic Targets*, **2007**, 11, 279-90	6.4	65
216	Cyclin-dependent kinase inhibitor indirubin-3'-oxime selectively inhibits human papillomavirus type 16 E7-induced numerical centrosome anomalies. *Oncogene*, **2004**, 23, 8206-15	9.2	65
215	Synthesis and biological activities of aminopyrimidyl-indoles structurally related to meridianins. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 4420-4	3.4	64
214	3'-Substituted 7-halogenoindirubins, a new class of cell death inducing agents. *Journal of Medicinal Chemistry*, **2006**, 49, 4638-49	8.3	64
213	Protein kinases as drug targets in parasitic protozoa. *Trends in Parasitology*, **2002**, 18, 366-71	6.4	64
212	Crystal structure of pyridoxal kinase in complex with roscovitine and derivatives. *Journal of Biological Chemistry*, **2005**, 280, 31220-9	5.4	62

211	6-Br-5methylindirubin-3'oxime (5-Me-6-BIO) targeting the leishmanial glycogen synthase kinase-3 (GSK-3) short form affects cell-cycle progression and induces apoptosis-like death: exploitation of GSK-3 for treating leishmaniasis. *International Journal for Parasitology*, **2009**, 39, 1289-303	4.3	61
210	Antimalarial potential of xestoquinone, a protein kinase inhibitor isolated from a Vanuatu marine sponge Xestospongia sp. *Bioorganic and Medicinal Chemistry*, **2006**, 14, 4477-82	3.4	61
209	CDK10/cyclin M is a protein kinase that controls ETS2 degradation and is deficient in STAR syndrome. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 19525-30	11.5	58
208	Starfish oocyte maturation: 1-methyladenine triggers a drop of cAMP concentration related to the hormone-dependent period. *Developmental Biology*, **1987**, 121, 306-15	3.1	58
207	Novel Inverse Binding Mode of Indirubin Derivatives Yields Improved Selectivity for DYRK Kinases. *ACS Medicinal Chemistry Letters*, **2013**, 4, 22-26	4.3	57
206	CDK Inhibitors Roscovitine and CR8 Trigger Mcl-1 Down-Regulation and Apoptotic Cell Death in Neuroblastoma Cells. *Genes and Cancer*, **2010**, 1, 369-80	2.9	57
205	Purification of CK1 by affinity chromatography on immobilised axin. *Protein Expression and Purification*, **2007**, 54, 101-9	2	57
204	p42/p44 MAPKs are intracellular targets of the CDK inhibitor purvalanol. *Oncogene*, **2002**, 21, 6413-24	9.2	57
203	Pyrazolo[3,4-c]pyridazines as novel and selective inhibitors of cyclin-dependent kinases. *Journal of Medicinal Chemistry*, **2005**, 48, 6843-54	8.3	57
202	Pyrazolo[1,5-a]-1,3,5-triazine as a purine bioisostere: access to potent cyclin-dependent kinase inhibitor (R)-roscovitine analogue. *Journal of Medicinal Chemistry*, **2009**, 52, 655-63	8.3	56
201	An integrated computational approach to the phenomenon of potent and selective inhibition of aurora kinases B and C by a series of 7-substituted indirubins. *Journal of Medicinal Chemistry*, **2007**, 50, 4027-37	8.3	55
200	Purine-based inhibitors of inositol-1,4,5-trisphosphate-3-kinase. *ChemBioChem*, **2002**, 3, 897-901	3.8	53
199	Structure-activity relationships and inhibitory effects of various purine derivatives on the in vitro growth of Plasmodium falciparum. *Biochemical Pharmacology*, **2001**, 62, 341-8	6	53
198	Cyclin E-cdk2 phosphorylation promotes late G1-phase degradation of MyoD in muscle cells. *Experimental Cell Research*, **2000**, 259, 300-7	4.2	53
197	Synthesis and in vitro evaluation of novel 2,6,9-trisubstituted purines acting as cyclin-dependent kinase inhibitors. *Bioorganic and Medicinal Chemistry*, **1999**, 7, 1281-93	3.4	53
196	Intra-M phase-promoting factor phosphorylation of cyclin B at the prophase/metaphase transition. *Journal of Biological Chemistry*, **1999**, 274, 11977-86	5.4	52
195	Synthesis of 3,5-bis(2-indolyl)pyridine and 3-[(2-indolyl)-5-phenyl]pyridine derivatives as CDK inhibitors and cytotoxic agents. *Bioorganic and Medicinal Chemistry*, **2008**, 16, 4932-53	3.4	51
194	Thiazolo[5,4-f]quinazolin-9-ones, inhibitors of glycogen synthase kinase-3. *Bioorganic and Medicinal Chemistry Letters*, **2006**, 16, 3419-23	2.9	51

193	Synthesis and biological evaluation of 2,3-diarylimidazo[1,2-a]pyridines as antileishmanial agents. *European Journal of Medicinal Chemistry*, **2012**, 58, 543-56	6.8	50
192	Cyclin-dependent kinase inhibitors: a survey of recent patent literature. *Expert Opinion on Therapeutic Patents*, **2010**, 20, 377-404	6.8	50
191	Novel 9-oxo-thiazolo[5,4-f]quinazoline-2-carbonitrile derivatives as dual cyclin-dependent kinase 1 (CDK1)/glycogen synthase kinase-3 (GSK-3) inhibitors: synthesis, biological evaluation and molecular modeling studies. *European Journal of Medicinal Chemistry*, **2008**, 43, 1469-77	6.8	50
190	Synthesis and kinase inhibitory activity of novel substituted indigoids. *Bioorganic and Medicinal Chemistry*, **2009**, 17, 6257-63	3.4	49
189	Identification of intracellular targets of small molecular weight chemical compounds using affinity chromatography. *Biotechnology Journal*, **2007**, 2, 68-75	5.6	47
188	Arachidonic acid, 12- and 15-hydroxyeicosatetraenoic acids, eicosapentaenoic acid, and phospholipase A2 induce starfish oocyte maturation. *Developmental Biology*, **1984**, 106, 368-78	3.1	47
187	3,6-Diamino-4-(2-halophenyl)-2-benzoylthieno[2,3-b]pyridine-5-carbonitriles are selective inhibitors of Plasmodium falciparum glycogen synthase kinase-3. *Journal of Medicinal Chemistry*, **2013**, 56, 264-75	8.3	45
186	Synthesis of C2 alkynylated purines, a new family of potent inhibitors of cyclin-dependent kinases. *Bioorganic and Medicinal Chemistry Letters*, **1998**, 8, 793-8	2.9	45
185	N-&-N, a new class of cell death-inducing kinase inhibitors derived from the purine roscovitine. *Molecular Cancer Therapeutics*, **2008**, 7, 2713-24	6.1	45
184	Cyclin-dependent kinases inhibitors as potential anticancer, antineurodegenerative, antiviral and antiparasitic agents. *Drug Resistance Updates*, **2000**, 3, 83-88	23.2	45
183	Starfish oocyte maturation: evidence for a cyclic AMP-dependent inhibitory pathway. *Developmental Biology*, **1989**, 133, 58-66	3.1	45
182	Chemical inhibitors of cyclin-dependent kinases. *Progress in Cell Cycle Research*, **1995**, 1, 351-63		45
181	High-mobility-group proteins P1, I and Y as substrates of the M-phase-specific p34cdc2/cyclincdc13 kinase. *FEBS Journal*, **1991**, 196, 557-67		44
180	CDK inhibitors R-roscovitine and S-CR8 effectively block renal and hepatic cystogenesis in an orthologous model of ADPKD. *Cell Cycle*, **2012**, 11, 4040-6	4.7	43
179	Novel tetrahydropyrido[1,2-a]isoindolone derivatives (valmerins): potent cyclin-dependent kinase/glycogen synthase kinase 3 inhibitors with antiproliferative activities and antitumor effects in human tumor xenografts. *Journal of Medicinal Chemistry*, **2012**, 55, 9589-606	8.3	42
178	Cdk2 is required for breast cancer mediated by the low-molecular-weight isoform of cyclin E. *Cancer Research*, **2011**, 71, 3377-86	10.1	41
177	Pyrazolo[3,4-b]quinoxalines. A new class of cyclin-dependent kinases inhibitors. *Bioorganic and Medicinal Chemistry*, **2002**, 10, 2177-84	3.4	41
176	Novel CDK inhibition profiles of structurally varied 1-aza-9-oxafluorenes. *Bioorganic and Medicinal Chemistry Letters*, **2005**, 15, 823-5	2.9	41

175	Synthesis and biological evaluation of N-arylbenzo[b]thieno[3,2-d]pyrimidin-4-amines and their pyrido and pyrazino analogues as Ser/Thr kinase inhibitors. *European Journal of Medicinal Chemistry*, **2012**, 58, 171-83	6.8	40
174	Acridone alkaloids from Glycosmis chlorosperma as DYRK1A inhibitors. *Journal of Natural Products*, **2014**, 77, 1117-22	4.9	39
173	Synthesis, resolution, and biological evaluation of atropisomeric (aR)- and (aS)-16-methyllamellarins N: unique effects of the axial chirality on the selectivity of protein kinases inhibition. *Journal of Medicinal Chemistry*, **2013**, 56, 7289-301	8.3	39
172	Synthesis and biological evaluation of new 3-(6-hydroxyindol-2-yl)-5-(Phenyl) pyridine or pyrazine V-Shaped molecules as kinase inhibitors and cytotoxic agents. *European Journal of Medicinal Chemistry*, **2011**, 46, 5416-34	6.8	39
171	(R)-roscovitine (CYC202, Seliciclib) sensitizes SH-SY5Y neuroblastoma cells to nutlin-3-induced apoptosis. *Experimental Cell Research*, **2006**, 312, 2394-400	4.2	39
170	Coscinosulfate, a CDC25 phosphatase inhibitor from the sponge Coscinoderma mathewsi. *Bioorganic and Medicinal Chemistry*, **2001**, 9, 3049-54	3.4	38
169	Differential regulation of histone H1 and ribosomal S6 kinases during sea star oocyte maturation. *Biochemistry*, **1987**, 26, 7968-74	3.2	37
168	TRPC6 channel translocation into phagosomal membrane augments phagosomal function. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E6486-95	11.5	36
167	From Drug Screening to Target Deconvolution: a Target-Based Drug Discovery Pipeline Using Leishmania Casein Kinase 1 Isoform 2 To Identify Compounds with Antileishmanial Activity. *Antimicrobial Agents and Chemotherapy*, **2016**, 60, 2822-33	5.9	36
166	Biosynthesis of new indigoid inhibitors of protein kinases using recombinant cytochrome P450 2A6. *Chemistry and Biodiversity*, **2005**, 2, 51-65	2.5	36
165	Protein phosphorylation and oocyte maturation. I. Induction of starfish oocyte maturation by intracellular microinjection of a phosphatase inhibitor, alpha-naphthylphosphate. *Experimental Cell Research*, **1986**, 163, 477-88	4.2	36
164	Butyrolactone I derivatives from Aspergillus terreus carrying an unusual sulfate moiety. *Journal of Natural Products*, **2008**, 71, 689-92	4.9	35
163	Identifying in vivo targets of cyclin-dependent kinase inhibitors by affinity chromatography. *Biochemical Pharmacology*, **2002**, 64, 819-25	6	35
162	Structure-aided optimization of kinase inhibitors derived from alsterpaullone. *ChemBioChem*, **2005**, 6, 541-9	3.8	35
161	Protein phosphorylation and oocyte maturation. II. Inhibition of starfish oocyte maturation by intracellular microinjection of protein phosphatases 1 and 2A and alkaline phosphatase. *Experimental Cell Research*, **1986**, 163, 489-99	4.2	35
160	Design and synthesis of thiazolo[5,4-f]quinazolines as DYRK1A inhibitors, part I. *Molecules*, **2014**, 19, 15546-71	4.8	35
159	Pharmacological assessment defines Leishmania donovani casein kinase 1 as a drug target and reveals important functions in parasite viability and intracellular infection. *Antimicrobial Agents and Chemotherapy*, **2014**, 58, 1501-15	5.9	34
158	Synthesis and biological evaluation of N-aryl-7-methoxybenzo[b]furo[3,2-d]pyrimidin-4-amines and their N-arylbenzo[b]thieno[3,2-d]pyrimidin-4-amine analogues as dual inhibitors of CLK1 and DYRK1A kinases. *European Journal of Medicinal Chemistry*, **2013**, 59, 283-95	6.8	34

157	Dual-specificity tyrosine phosphorylation-regulated kinase 1A (DYRK1A) inhibitors: a survey of recent patent literature. *Expert Opinion on Therapeutic Patents*, **2017**, 27, 1183-1199	6.8	34
156	Human cells enter mitosis with damaged DNA after treatment with pharmacological concentrations of genotoxic agents. *Biochemical Journal*, **2012**, 446, 373-81	3.8	34
155	Reduction of ciliary length through pharmacologic or genetic inhibition of CDK5 attenuates polycystic kidney disease in a model of nephronophthisis. *Human Molecular Genetics*, **2016**, 25, 2245-2253	5.6	33
154	Synthesis and optimization of an original V-shaped collection of 4-7-disubstituted pyrido[3,2-d]pyrimidines as CDK5 and DYRK1A inhibitors. *European Journal of Medicinal Chemistry*, **2014**, 80, 352-63	6.8	33
153	Indirubin derivative 6BIO suppresses metastasis. *Cancer Research*, **2013**, 73, 6004-12	10.1	33
152	Epoxide-containing side chains enhance antiproliferative activity of paullones. *European Journal of Medicinal Chemistry*, **2005**, 40, 655-61	6.8	33
151	Calmodulin in starfish oocytes. I. Calmodulin antagonists inhibit meiosis reinitiation. *Developmental Biology*, **1981**, 88, 318-24	3.1	33
150	Stimulation of protein phosphorylation during fertilization-induced maturation of Urechis caupo oocytes. *Developmental Biology*, **1982**, 94, 62-70	3.1	33
149	Cinnamaldehydes inhibit cyclin dependent kinase 4/cyclin D1. *Bioorganic and Medicinal Chemistry Letters*, **2000**, 10, 1819-22	2.9	32
148	Synthesis and molecular modelling studies of 8-arylpyrido[3',2':4,5]thieno[3,2-d]pyrimidin-4-amines as multitarget Ser/Thr kinases inhibitors. *European Journal of Medicinal Chemistry*, **2015**, 92, 124-34	6.8	31
147	Interaction between the cell-cycle-control proteins p34cdc2 and p9CKShs2. Evidence for two cooperative binding domains in p9CKShs2. *FEBS Journal*, **1992**, 203, 353-60		31
146	Correction of cognitive deficits in mouse models of Down syndrome by a pharmacological inhibitor of DYRK1A. *DMM Disease Models and Mechanisms*, **2018**, 11,	4.1	31
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144	Targeting low molecular weight cyclin E (LMW-E) in breast cancer. *Breast Cancer Research and Treatment*, **2012**, 132, 575-88	4.4	30
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