

# Philip M Potter

## List of Publications by Citations

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93  
papers

4,432  
citations

40  
h-index

64  
g-index

95  
ext. papers

4,820  
ext. citations

6.6  
avg, IF

5.08  
L-index

#	Paper	IF	Citations
93	Targeting oxidative stress in embryonal rhabdomyosarcoma. <i>Cancer Cell</i> , <b>2013</b> , 24, 710-24	24.3	182
92	Mammalian carboxylesterases: from drug targets to protein therapeutics. <i>Drug Discovery Today</i> , <b>2005</b> , 10, 313-25	8.8	171
91	Structural basis of heroin and cocaine metabolism by a promiscuous human drug-processing enzyme. <i>Nature Structural and Molecular Biology</i> , <b>2003</b> , 10, 349-56	17.6	170
90	Hydrolysis of pyrethroids by human and rat tissues: examination of intestinal, liver and serum carboxylesterases. <i>Toxicology and Applied Pharmacology</i> , <b>2007</b> , 221, 1-12	4.6	155
89	Identification and characterization of novel benzil (diphenylethane-1,2-dione) analogues as inhibitors of mammalian carboxylesterases. <i>Journal of Medicinal Chemistry</i> , <b>2005</b> , 48, 2906-15	8.3	144
88	Hydrolytic metabolism of pyrethroids by human and other mammalian carboxylesterases. <i>Biochemical Pharmacology</i> , <b>2006</b> , 71, 657-69	6	140
87	Crystal structure of human carboxylesterase 1 complexed with the Alzheimer's drug tacrine: from binding promiscuity to selective inhibition. <i>Chemistry and Biology</i> , <b>2003</b> , 10, 341-9		138
86	Sudemycins, novel small molecule analogues of FR901464, induce alternative gene splicing. <i>ACS Chemical Biology</i> , <b>2011</b> , 6, 582-9	4.9	132
85	Structural insights into CPT-11 activation by mammalian carboxylesterases. <i>Nature Structural Biology</i> , <b>2002</b> , 9, 337-42		130
84	Carboxylesterases--detoxifying enzymes and targets for drug therapy. <i>Current Medicinal Chemistry</i> , <b>2006</b> , 13, 1045-54	4.3	124
83	Targeting the DNA repair pathway in Ewing sarcoma. <i>Cell Reports</i> , <b>2014</b> , 9, 829-41	10.6	118
82	Tumor-targeted enzyme/prodrug therapy mediates long-term disease-free survival of mice bearing disseminated neuroblastoma. <i>Cancer Research</i> , <b>2007</b> , 67, 22-5	10.1	114
81	Multisite promiscuity in the processing of endogenous substrates by human carboxylesterase 1. <i>Journal of Molecular Biology</i> , <b>2006</b> , 363, 201-14	6.5	114
80	Structural insights into drug processing by human carboxylesterase 1: tamoxifen, mevastatin, and inhibition by benzil. <i>Journal of Molecular Biology</i> , <b>2005</b> , 352, 165-77	6.5	109
79	Development of a tumor-selective approach to treat metastatic cancer. <i>PLoS ONE</i> , <b>2006</b> , 1, e23	3.7	100
78	Brain tumor oncolysis with replication-conditional herpes simplex virus type 1 expressing the prodrug-activating genes, CYP2B1 and secreted human intestinal carboxylesterase, in combination with cyclophosphamide and irinotecan. <i>Cancer Research</i> , <b>2005</b> , 65, 6850-7	10.1	93
77	Species differences in the in vitro metabolism of deltamethrin and esfenvalerate: differential oxidative and hydrolytic metabolism by humans and rats. <i>Drug Metabolism and Disposition</i> , <b>2006</b> , 34, 1764-71	4	86

76	Discovery of novel selective inhibitors of human intestinal carboxylesterase for the amelioration of irinotecan-induced diarrhea: synthesis, quantitative structure-activity relationship analysis, and biological activity. <i>Molecular Pharmacology</i> , <b>2004</b> , 65, 1336-43	4.3	86
75	Comparison of <i>Escherichia coli</i> , <i>Saccharomyces cerevisiae</i> , <i>Pichia pastoris</i> , <i>Spodoptera frugiperda</i> , and COS7 cells for recombinant gene expression. Application to a rabbit liver carboxylesterase. <i>Molecular Biotechnology</i> , <b>2000</b> , 16, 193-202	3	84
74	Carboxylesterase inhibitors. <i>Expert Opinion on Therapeutic Patents</i> , <b>2011</b> , 21, 1159-71	6.8	82
73	The development and application of small molecule modulators of SF3b as therapeutic agents for cancer. <i>Drug Discovery Today</i> , <b>2013</b> , 18, 43-9	8.8	81
72	Carboxylesterases: General detoxifying enzymes. <i>Chemico-Biological Interactions</i> , <b>2016</b> , 259, 327-331	5	75
71	Inactivation of lipid glyceryl ester metabolism in human THP1 monocytes/macrophages by activated organophosphorus insecticides: role of carboxylesterases 1 and 2. <i>Chemical Research in Toxicology</i> , <b>2010</b> , 23, 1890-904	4	70
70	Organ-specific carboxylesterase profiling identifies the small intestine and kidney as major contributors of activation of the anticancer prodrug CPT-11. <i>Biochemical Pharmacology</i> , <b>2011</b> , 81, 24-31	6	67
69	Inhibition of carboxylesterase 1 is associated with cholesteryl ester retention in human THP-1 monocyte/macrophages. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2008</b> , 1781, 643-54	5	64
68	Challenges and Opportunities with Non-CYP Enzymes Aldehyde Oxidase, Carboxylesterase, and UDP-Glucuronosyltransferase: Focus on Reaction Phenotyping and Prediction of Human Clearance. <i>AAPS Journal</i> , <b>2016</b> , 18, 1391-1405	3.7	59
67	Selective inhibition of carboxylesterases by isatins, indole-2,3-diones. <i>Journal of Medicinal Chemistry</i> , <b>2007</b> , 50, 1876-85	8.3	57
66	Activation and antitumor activity of CPT-11 in plasma esterase-deficient mice. <i>Cancer Chemotherapy and Pharmacology</i> , <b>2005</b> , 56, 629-36	3.5	57
65	Structural constraints affect the metabolism of 7-ethyl-10-[4-(1-piperidino)-1-piperidino]carbonyloxycamptothecin (CPT-11) by carboxylesterases. <i>Molecular Pharmacology</i> , <b>2001</b> , 60, 355-62	4.3	56
64	Crystal structures of human carboxylesterase 1 in covalent complexes with the chemical warfare agents soman and tabun. <i>Biochemistry</i> , <b>2007</b> , 46, 5063-71	3.2	54
63	Neural stem cell-mediated delivery of irinotecan-activating carboxylesterases to glioma: implications for clinical use. <i>Stem Cells Translational Medicine</i> , <b>2013</b> , 2, 983-92	6.9	53
62	Modulation of esterified drug metabolism by tanshinones from <i>Salvia miltiorrhiza</i> ("Danshen"). <i>Journal of Natural Products</i> , <b>2013</b> , 76, 36-44	4.9	51
61	Sudemycin E influences alternative splicing and changes chromatin modifications. <i>Nucleic Acids Research</i> , <b>2014</b> , 42, 4947-61	20.1	50
60	Inhibition of carboxylesterases by benzil (diphenylethane-1,2-dione) and heterocyclic analogues is dependent upon the aromaticity of the ring and the flexibility of the dione moiety. <i>Journal of Medicinal Chemistry</i> , <b>2005</b> , 48, 5543-50	8.3	50
59	ATP-dependent mitochondrial porphyrin importer ABCB6 protects against phenylhydrazine toxicity. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 12679-90	5.4	48

58	Carboxylesterase-mediated sensitization of human tumor cells to CPT-11 cannot override ABCG2-mediated drug resistance. <i>Molecular Pharmacology</i> , <b>2003</b> , 64, 279-88	4.3	44
57	Human carboxylesterase 1 stereoselectively binds the nerve agent cyclosarin and spontaneously hydrolyzes the nerve agent sarin. <i>Molecular Pharmacology</i> , <b>2010</b> , 77, 508-16	4.3	43
56	Improved, selective, human intestinal carboxylesterase inhibitors designed to modulate 7-ethyl-10-[4-(1-piperidino)-1-piperidino]carbonyloxycamptothecin (Irinotecan; CPT-11) toxicity. <i>Journal of Medicinal Chemistry</i> , <b>2009</b> , 52, 3742-52	8.3	41
55	Inhibition of recombinant human carboxylesterase 1 and 2 and monoacylglycerol lipase by chlorpyrifos oxon, paraoxon and methyl paraoxon. <i>Toxicology and Applied Pharmacology</i> , <b>2012</b> , 258, 145-50	4.6	40
54	Inhibition of human carboxylesterases hCE1 and hiCE by cholinesterase inhibitors. <i>Chemico-Biological Interactions</i> , <b>2013</b> , 203, 226-30	5	40
53	Intracellular inhibition of carboxylesterases by benzil: modulation of CPT-11 cytotoxicity. <i>Molecular Cancer Therapeutics</i> , <b>2006</b> , 5, 2281-8	6.1	37
52	Analysis of mammalian carboxylesterase inhibition by trifluoromethylketone-containing compounds. <i>Molecular Pharmacology</i> , <b>2007</b> , 71, 713-23	4.3	37
51	Clinical genome sequencing uncovers potentially targetable truncations and fusions of MAP3K8 in spitzoid and other melanomas. <i>Nature Medicine</i> , <b>2019</b> , 25, 597-602	50.5	36
50	Inhibition of carboxylesterase activity of THP1 monocytes/macrophages and recombinant human carboxylesterase 1 by oxysterols and fatty acids. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2010</b> , 1801, 31-41	5	34
49	Analysis of the inhibition of mammalian carboxylesterases by novel fluorobenzoin and fluorobenzils. <i>Bioorganic and Medicinal Chemistry</i> , <b>2007</b> , 15, 3801-17	3.4	34
48	The crystal structure of the complex of the anticancer prodrug 7-ethyl-10-[4-(1-piperidino)-1-piperidino]carbonyloxycamptothecin (CPT-11) with Torpedo californica acetylcholinesterase provides a molecular explanation for its cholinergic action. <i>Molecular Pharmacology</i> , <b>2005</b> , 67, 1874-81	4.3	34
47	Comparison of benzil and trifluoromethyl ketone (TFK)-mediated carboxylesterase inhibition using classical and 3D-quantitative structure-activity relationship analysis. <i>Bioorganic and Medicinal Chemistry</i> , <b>2009</b> , 17, 149-64	3.4	32
46	Planarity and constraint of the carbonyl groups in 1,2-diones are determinants for selective inhibition of human carboxylesterase 1. <i>Journal of Medicinal Chemistry</i> , <b>2007</b> , 50, 5727-34	8.3	32
45	Inhibition of acetylcholinesterase by the anticancer prodrug CPT-11. <i>Chemico-Biological Interactions</i> , <b>2005</b> , 157-158, 247-52	5	31
44	Selective Inhibitors of Human Liver Carboxylesterase Based on a Lapachone Scaffold: Novel Reagents for Reaction Profiling. <i>Journal of Medicinal Chemistry</i> , <b>2017</b> , 60, 1568-1579	8.3	29
43	Identification of human intestinal carboxylesterase as the primary enzyme for activation of a doxazolidine carbamate prodrug. <i>Journal of Medicinal Chemistry</i> , <b>2008</b> , 51, 298-304	8.3	28
42	Covalent inhibition of recombinant human carboxylesterase 1 and 2 and monoacylglycerol lipase by the carbamates JZL184 and URB597. <i>Biochemical Pharmacology</i> , <b>2012</b> , 84, 1215-22	6	25
41	Modifications of human carboxylesterase for improved prodrug activation. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2008</b> , 4, 1153-65	5.5	25

40	Nanoparticles containing anti-inflammatory agents as chemotherapy adjuvants II: role of plasma esterases in drug release. <i>AAPS Journal</i> , <b>2009</b> , 11, 120-2	3.7	24
39	Therapeutic targeting of melanoma cells using neural stem cells expressing carboxylesterase, a CPT-11 activating enzyme. <i>Current Stem Cell Research and Therapy</i> , <b>2010</b> , 5, 273-6	3.6	22
38	Isolation and partial characterisation of a Chinese hamster O6-alkylguanine-DNA alkyltransferase cDNA. <i>Nucleic Acids Research</i> , <b>1992</b> , 20, 1891-5	20.1	20
37	Efficacy and toxicity of a virus-directed enzyme prodrug therapy purging method: preclinical assessment and application to bone marrow samples from neuroblastoma patients. <i>Cancer Research</i> , <b>2002</b> , 62, 5001-7	10.1	20
36	Requirements for mammalian carboxylesterase inhibition by substituted ethane-1,2-diones. <i>Bioorganic and Medicinal Chemistry</i> , <b>2011</b> , 19, 4635-43	3.4	18
35	Evaluation of the Side doorSin carboxylesterase-mediated catalysis and inhibition. <i>Biological Chemistry</i> , <b>2008</b> , 389, 149-62	4.5	18
34	Nerve agent hydrolysis activity designed into a human drug metabolism enzyme. <i>PLoS ONE</i> , <b>2011</b> , 6, e17441	3.7	18
33	Exploiting a water network to achieve enthalpy-driven, bromodomain-selective BET inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , <b>2018</b> , 26, 25-36	3.4	18
32	Inhibition of SF3B1 by molecules targeting the spliceosome results in massive aberrant exon skipping. <i>Rna</i> , <b>2018</b> , 24, 1056-1066	5.8	18
31	Facile synthesis of 1,2-dione-containing abietane analogues for the generation of human carboxylesterase inhibitors. <i>European Journal of Medicinal Chemistry</i> , <b>2018</b> , 149, 79-89	6.8	15
30	Structure-activity relationships of substituted 1-pyridyl-2-phenyl-1,2-ethanediones: potent, selective carboxylesterase inhibitors. <i>Journal of Medicinal Chemistry</i> , <b>2010</b> , 53, 8709-15	8.3	15
29	Molecular modeling of CPT-11 metabolism by carboxylesterases (CEs): use of pnb CE as a model. <i>Biochemistry</i> , <b>2004</b> , 43, 1874-82	3.2	15
28	Isolation and characterization of a cDNA encoding a horse liver butyrylcholinesterase: evidence for CPT-11 drug activation. <i>Biochemical Pharmacology</i> , <b>2000</b> , 59, 773-81	6	14
27	Characterization of inhibitors of specific carboxylesterases: development of carboxylesterase inhibitors for translational application. <i>Molecular Cancer Therapeutics</i> , <b>2004</b> , 3, 903-9	6.1	14
26	Optimization of a Neural Stem-Cell-Mediated Carboxylesterase/Irinotecan Gene Therapy for Metastatic Neuroblastoma. <i>Molecular Therapy - Oncolytics</i> , <b>2017</b> , 4, 67-76	6.4	12
25	Control of RhoA methylation by carboxylesterase I. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 19177-83	5.4	12
24	In situ subcellular localization of epitope-tagged human and rabbit carboxylesterases. <i>Cytometry</i> , <b>1998</b> , 32, 223-232		11
23	The 3D structure of the anticancer prodrug CPT-11 with <i>Torpedo californica</i> acetylcholinesterase rationalizes its inhibitory action on AChE and its hydrolysis by butyrylcholinesterase and carboxylesterase. <i>Chemico-Biological Interactions</i> , <b>2005</b> , 157-158, 153-7	5	11

22	Pharmacodynamic assays to facilitate preclinical and clinical development of pre-mRNA splicing modulatory drug candidates. <i>Pharmacology Research and Perspectives</i> , <b>2015</b> , 3, e00158	3.1	10
21	High payload dual therapeutic-imaging nanocarriers for triggered tumor delivery. <i>Small</i> , <b>2012</b> , 8, 2895-903		10
20	Immobilization of active human carboxylesterase 1 in biomimetic silica nanoparticles. <i>Biotechnology Progress</i> , <b>2011</b> , 27, 863-9	2.8	10
19	Activation of a camptothecin prodrug by specific carboxylesterases as predicted by quantitative structure-activity relationship and molecular docking studies. <i>Molecular Cancer Therapeutics</i> , <b>2003</b> , 2, 1171-81	6.1	10
18	Bromodomain-Selective BET Inhibitors Are Potent Antitumor Agents against MYC-Driven Pediatric Cancer. <i>Cancer Research</i> , <b>2020</b> , 80, 3507-3518	10.1	9
17	Global and local molecular dynamics of a bacterial carboxylesterase provide insight into its catalytic mechanism. <i>Journal of Molecular Modeling</i> , <b>2012</b> , 18, 2869-83	2	9
16	Toxicology and Biodistribution Studies for MGH2.1, an Oncolytic Virus that Expresses Two Prodrug-activating Genes, in Combination with Prodrugs. <i>Molecular Therapy - Nucleic Acids</i> , <b>2013</b> , 2, e113 <sup>10.7</sup>		9
15	Synthesis and evaluation of esters and carbamates to identify critical functional groups for esterase-specific metabolism. <i>Bioorganic and Medicinal Chemistry</i> , <b>2003</b> , 11, 3237-44	3.4	9
14	Development of prodrugs for enzyme-mediated, tumor-selective therapy. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , <b>2005</b> , 5, 107-13		9
13	Use of the ornithine decarboxylase promoter to achieve N-MYC-mediated overexpression of a rabbit carboxylesterase to sensitize neuroblastoma cells to CPT-11. <i>Molecular Therapy</i> , <b>2000</b> , 1, 457-63	11.7	8
12	In Silico Design and Evaluation of Carboxylesterase Inhibitors. <i>Journal of Pesticide Sciences</i> , <b>2010</b> , 35, 240-249	2.7	7
11	Development of an etoposide prodrug for dual prodrug-enzyme antitumor therapy. <i>Molecular Cancer Therapeutics</i> , <b>2006</b> , 5, 1577-84	6.1	7
10	Construction of adenovirus for high level expression of small RNAs in mammalian cells. Application to a Bcl-2 ribozyme. <i>Molecular Biotechnology</i> , <b>2000</b> , 15, 105-14	3	7
9	Metabolism of 2-naphthylamine and benzidine by rat and human bladder organ cultures. <i>Carcinogenesis</i> , <b>1984</b> , 5, 949-54	4.6	7
8	Mouse serum paraoxonase-1 lactonase activity is specific for medium-chain length fatty acid lactones. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2011</b> , 1811, 39-45	5	6
7	Tissue-specific expression and induction of human O6-alkylguanine-DNA alkyltransferase in transgenic mice. <i>Molecular Carcinogenesis</i> , <b>1992</b> , 6, 26-31	5	5
6	Targeting ALK in pediatric RMS does not induce antitumor activity in vivo. <i>Cancer Chemotherapy and Pharmacology</i> , <b>2018</b> , 82, 251-263	3.5	5
5	Tumour-selective targeting of drug metabolizing enzymes to treat metastatic cancer. <i>British Journal of Pharmacology</i> , <b>2016</b> , 173, 2811-8	8.6	4

4	Potent, Irreversible Inhibition of Human Carboxylesterases by Tanshinone Anhydrides Isolated from <i>Salvia miltiorrhiza</i> ("Danshen"). <i>Journal of Natural Products</i> , <b>2018</b> , 81, 2410-2418	4-9	3
3	Enzyme-prodrug systems: carboxylesterase/CPT-11. <i>Methods in Molecular Medicine</i> , <b>2004</b> , 90, 247-62		2
2	Inhibition of carboxylesterase-1 alters clopidogrel metabolism and disposition. <i>Xenobiotica</i> , <b>2020</b> , 50, 245-251	2	2
1	p53-mediated regulation of expression of a rabbit liver carboxylesterase confers sensitivity to 7-ethyl-10-[4-(1-piperidino)-1-piperidino]carbonyloxycamptothecin (CPT-11). <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2003</b> , 304, 699-705	4-7	1