

Philip M Potter

List of Publications by Year in descending order

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94
papers

5,166
citations

71102

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91884

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docs citations

95
times ranked

5820
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Targeting Oxidative Stress in Embryonal Rhabdomyosarcoma. <i>Cancer Cell</i> , 2013, 24, 710-724. | 16.8 | 252 |
| 2 | Structural basis of heroin and cocaine metabolism by a promiscuous human drug-processing enzyme. <i>Nature Structural and Molecular Biology</i> , 2003, 10, 349-356. | 8.2 | 195 |
| 3 | Keynote review: Mammalian carboxylesterases: From drug targets to protein therapeutics. <i>Drug Discovery Today</i> , 2005, 10, 313-325. | 6.4 | 190 |
| 4 | Hydrolysis of pyrethroids by human and rat tissues: Examination of intestinal, liver and serum carboxylesterases. <i>Toxicology and Applied Pharmacology</i> , 2007, 221, 1-12. | 2.8 | 176 |
| 5 | Identification and Characterization of Novel Benzil (Diphenylethane-1,2-dione) Analogues as Inhibitors of Mammalian Carboxylesterases. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 2906-2915. | 6.4 | 167 |
| 6 | Crystal Structure of Human Carboxylesterase 1 Complexed with the Alzheimer's Drug Tacrine. <i>Chemistry and Biology</i> , 2003, 10, 341-349. | 6.0 | 155 |
| 7 | Sudemycins, Novel Small Molecule Analogues of FR901464, Induce Alternative Gene Splicing. <i>ACS Chemical Biology</i> , 2011, 6, 582-589. | 3.4 | 155 |
| 8 | Hydrolytic metabolism of pyrethroids by human and other mammalian carboxylesterases. <i>Biochemical Pharmacology</i> , 2006, 71, 657-669. | 4.4 | 151 |
| 9 | Structural insights into CPT-11 activation by mammalian carboxylesterases. <i>Nature Structural Biology</i> , 2002, 9, 337-342. | 9.7 | 144 |
| 10 | Targeting the DNA Repair Pathway in Ewing Sarcoma. <i>Cell Reports</i> , 2014, 9, 829-840. | 6.4 | 141 |
| 11 | Carboxylesterases - Detoxifying Enzymes and Targets for Drug Therapy. <i>Current Medicinal Chemistry</i> , 2006, 13, 1045-1054. | 2.4 | 135 |
| 12 | Multisite Promiscuity in the Processing of Endogenous Substrates by Human Carboxylesterase 1. <i>Journal of Molecular Biology</i> , 2006, 363, 201-214. | 4.2 | 128 |
| 13 | Tumor-Targeted Enzyme/Prodrug Therapy Mediates Long-term Disease-Free Survival of Mice Bearing Disseminated Neuroblastoma. <i>Cancer Research</i> , 2007, 67, 22-25. | 0.9 | 127 |
| 14 | Structural Insights into Drug Processing by Human Carboxylesterase 1: Tamoxifen, Mevastatin, and Inhibition by Benzil. <i>Journal of Molecular Biology</i> , 2005, 352, 165-177. | 4.2 | 124 |
| 15 | Carboxylesterases: General detoxifying enzymes. <i>Chemico-Biological Interactions</i> , 2016, 259, 327-331. | 4.0 | 115 |
| 16 | Development of a Tumor-Selective Approach to Treat Metastatic Cancer. <i>PLoS ONE</i> , 2006, 1, e23. | 2.5 | 111 |
| 17 | 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> , 2005, 65, 6850-6857. | 0.9 | 99 |
| 18 | Carboxylesterase inhibitors. <i>Expert Opinion on Therapeutic Patents</i> , 2011, 21, 1159-1171. | 5.0 | 99 |

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|----|---|------|-----------|
| 19 | 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> , 2000, 16, 193-202. | 2.4 | 96 |
| 20 | 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> , 2006, 34, 1764-1771. | 3.3 | 92 |
| 21 | 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> , 2004, 65, 1336-1343. | 2.3 | 91 |
| 22 | The development and application of small molecule modulators of SF3b as therapeutic agents for cancer. <i>Drug Discovery Today</i> , 2013, 18, 43-49. | 6.4 | 89 |
| 23 | 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> , 2011, 81, 24-31. | 4.4 | 86 |
| 24 | 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> , 2010, 23, 1890-1904. | 3.3 | 81 |
| 25 | 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> , 2016, 18, 1391-1405. | 4.4 | 79 |
| 26 | 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> , 2008, 1781, 643-654. | 2.4 | 69 |
| 27 | Selective Inhibition of Carboxylesterases by Isatins, Indole-2,3-diones. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 1876-1885. | 6.4 | 66 |
| 28 | Structural Constraints Affect the Metabolism of 7-Ethyl-10-[4-(1-piperidino)-1-piperidino]carbonyloxycamptothecin (CPT-11) by Carboxylesterases. <i>Molecular Pharmacology</i> , 2001, 60, 355-362. | 2.3 | 61 |
| 29 | Crystal Structures of Human Carboxylesterase 1 in Covalent Complexes with the Chemical Warfare Agents Soman and Tabun,. <i>Biochemistry</i> , 2007, 46, 5063-5071. | 2.5 | 61 |
| 30 | Clinical genome sequencing uncovers potentially targetable truncations and fusions of MAP3K8 in spitzoid and other melanomas. <i>Nature Medicine</i> , 2019, 25, 597-602. | 30.7 | 61 |
| 31 | Activation and antitumor activity of CPT-11 in plasma esterase-deficient mice. <i>Cancer Chemotherapy and Pharmacology</i> , 2005, 56, 629-636. | 2.3 | 60 |
| 32 | 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> , 2005, 48, 5543-5550. | 6.4 | 59 |
| 33 | Neural Stem Cell-Mediated Delivery of Irinotecan-Activating Carboxylesterases to Glioma: Implications for Clinical Use. <i>Stem Cells Translational Medicine</i> , 2013, 2, 983-992. | 3.3 | 58 |
| 34 | ATP-dependent Mitochondrial Porphyrin Importer ABCB6 Protects against Phenylhydrazine Toxicity. <i>Journal of Biological Chemistry</i> , 2012, 287, 12679-12690. | 3.4 | 57 |
| 35 | Sudemycin E influences alternative splicing and changes chromatin modifications. <i>Nucleic Acids Research</i> , 2014, 42, 4947-4961. | 14.5 | 57 |
| 36 | Modulation of Esterified Drug Metabolism by Tanshinones from <i>Salvia miltiorrhiza</i> (â€œDanshenâ€œ). <i>Journal of Natural Products</i> , 2013, 76, 36-44. | 3.0 | 53 |

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|----|--|-----|-----------|
| 37 | Inhibition of human carboxylesterases hCE1 and hiCE by cholinesterase inhibitors. <i>Chemico-Biological Interactions</i> , 2013, 203, 226-230. | 4.0 | 48 |
| 38 | 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> , 2009, 52, 3742-3752. | 6.4 | 47 |
| 39 | Human Carboxylesterase 1 Stereoselectively Binds the Nerve Agent Cyclosarin and Spontaneously Hydrolyzes the Nerve Agent Sarin. <i>Molecular Pharmacology</i> , 2010, 77, 508-516. | 2.3 | 47 |
| 40 | Carboxylesterase-Mediated Sensitization of Human Tumor Cells to CPT-11 Cannot Override ABCG2-Mediated Drug Resistance. <i>Molecular Pharmacology</i> , 2003, 64, 279-288. | 2.3 | 45 |
| 41 | Inhibition of recombinant human carboxylesterase 1 and 2 and monoacylglycerol lipase by chlorpyrifos oxon, paraoxon and methyl paraoxon. <i>Toxicology and Applied Pharmacology</i> , 2012, 258, 145-150. | 2.8 | 45 |
| 42 | Inhibition of SF3B1 by molecules targeting the spliceosome results in massive aberrant exon skipping. <i>Rna</i> , 2018, 24, 1056-1066. | 3.5 | 42 |
| 43 | Analysis of the inhibition of mammalian carboxylesterases by novel fluorobenzoins and fluorobenzils. <i>Bioorganic and Medicinal Chemistry</i> , 2007, 15, 3801-3817. | 3.0 | 41 |
| 44 | Intracellular inhibition of carboxylesterases by benzil: modulation of CPT-11 cytotoxicity. <i>Molecular Cancer Therapeutics</i> , 2006, 5, 2281-2288. | 4.1 | 40 |
| 45 | Analysis of Mammalian Carboxylesterase Inhibition by Trifluoromethylketone-Containing Compounds. <i>Molecular Pharmacology</i> , 2007, 71, 713-723. | 2.3 | 38 |
| 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> , 2007, 50, 5727-5734. | 6.4 | 37 |
| 47 | 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> , 2010, 1801, 31-41. | 2.4 | 37 |
| 48 | The Crystal Structure of the Complex of the Anticancer Prodrug 7-Ethyl-10-[4-(1-piperidino)-1-piperidino]carbonyloxycamptothecin (CPT-11) with <i>Torpedo californica</i> Acetylcholinesterase Provides a Molecular Explanation for Its Cholinergic Action. <i>Molecular Pharmacology</i> , 2005, 67, 1874-1881. | 2.3 | 36 |
| 49 | Inhibition of acetylcholinesterase by the anticancer prodrug CPT-11. <i>Chemico-Biological Interactions</i> , 2005, 157-158, 247-252. | 4.0 | 35 |
| 50 | Identification of Human Intestinal Carboxylesterase as the Primary Enzyme for Activation of a Doxazolidine Carbamate Prodrug. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 298-304. | 6.4 | 33 |
| 51 | 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> , 2009, 17, 149-164. | 3.0 | 33 |
| 52 | Selective Inhibitors of Human Liver Carboxylesterase Based on a β^2 -Lapachone Scaffold: Novel Reagents for Reaction Profiling. <i>Journal of Medicinal Chemistry</i> , 2017, 60, 1568-1579. | 6.4 | 32 |
| 53 | Modifications of human carboxylesterase for improved prodrug activation. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2008, 4, 1153-1165. | 3.3 | 31 |
| 54 | Covalent inhibition of recombinant human carboxylesterase 1 and 2 and monoacylglycerol lipase by the carbamates JZL184 and URB597. <i>Biochemical Pharmacology</i> , 2012, 84, 1215-1222. | 4.4 | 29 |

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|----|--|------|-----------|
| 55 | Bromodomain-Selective BET Inhibitors Are Potent Antitumor Agents against MYC-Driven Pediatric Cancer. <i>Cancer Research</i> , 2020, 80, 3507-3518. | 0.9 | 28 |
| 56 | 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> , 2002, 62, 5001-7. | 0.9 | 27 |
| 57 | Nanoparticles Containing Anti-inflammatory Agents as Chemotherapy Adjuvants II: Role of Plasma Esterases in Drug Release. <i>AAPS Journal</i> , 2009, 11, 120-122. | 4.4 | 26 |
| 58 | Therapeutic Targeting of Melanoma Cells Using Neural Stem Cells Expressing Carboxylesterase, a CPT-11 Activating Enzyme. <i>Current Stem Cell Research and Therapy</i> , 2010, 5, 273-276. | 1.3 | 26 |
| 59 | Exploiting a water network to achieve enthalpy-driven, bromodomain-selective BET inhibitors. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 25-36. | 3.0 | 23 |
| 60 | Isolation and partial characterisation of a Chinese hamster O6-alkylguanine-DNA alkyl transferase cDNA. <i>Nucleic Acids Research</i> , 1992, 20, 1891-1895. | 14.5 | 22 |
| 61 | Evaluation of the "side door"™ in carboxylesterase-mediated catalysis and inhibition. <i>Biological Chemistry</i> , 2008, 389, 149-162. | 2.5 | 20 |
| 62 | Requirements for mammalian carboxylesterase inhibition by substituted ethane-1,2-diones. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 4635-4643. | 3.0 | 20 |
| 63 | Nerve Agent Hydrolysis Activity Designed into a Human Drug Metabolism Enzyme. <i>PLoS ONE</i> , 2011, 6, e17441. | 2.5 | 19 |
| 64 | Optimization of a Neural Stem-Cell-Mediated Carboxylesterase/Irinotecan Gene Therapy for Metastatic Neuroblastoma. <i>Molecular Therapy - Oncolytics</i> , 2017, 4, 67-76. | 4.4 | 18 |
| 65 | Molecular Modeling of CPT-11 Metabolism by Carboxylesterases (CEs): Use of pnb CE as a Model. <i>Biochemistry</i> , 2004, 43, 1874-1882. | 2.5 | 17 |
| 66 | Structure-Activity Relationships of Substituted 1-Pyridyl-2-phenyl-1,2-ethanediones: Potent, Selective Carboxylesterase Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 8709-8715. | 6.4 | 17 |
| 67 | Facile synthesis of 1,2-dione-containing abietane analogues for the generation of human carboxylesterase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2018, 149, 79-89. | 5.5 | 17 |
| 68 | Isolation and characterization of a cDNA encoding a horse liver butyrylcholinesterase. <i>Biochemical Pharmacology</i> , 2000, 59, 773-781. | 4.4 | 16 |
| 69 | Control of RhoA Methylation by Carboxylesterase I. <i>Journal of Biological Chemistry</i> , 2013, 288, 19177-19183. | 3.4 | 16 |
| 70 | Characterization of inhibitors of specific carboxylesterases: development of carboxylesterase inhibitors for translational application. <i>Molecular Cancer Therapeutics</i> , 2004, 3, 903-9. | 4.1 | 15 |
| 71 | 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> , 2005, 157-158, 153-157. | 4.0 | 14 |
| 72 | High Payload Dual Therapeutic Imaging Nanocarriers for Triggered Tumor Delivery. <i>Small</i> , 2012, 8, 2895-2903. | 10.0 | 13 |

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|----|---|-----|-----------|
| 73 | Pharmacodynamic assays to facilitate preclinical and clinical development of pre-mRNA splicing modulatory drug candidates. <i>Pharmacology Research and Perspectives</i> , 2015, 3, e00158. | 2.4 | 12 |
| 74 | In situ subcellular localization of epitope-tagged human and rabbit carboxylesterases. <i>Cytometry</i> , 1998, 32, 223-232. | 1.8 | 11 |
| 75 | Development of Prodrugs for Enzyme-Mediated, Tumor-Selective Therapy. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2005, 5, 107-113. | 7.0 | 11 |
| 76 | Immobilization of active human carboxylesterase 1 in biomimetic silica nanoparticles. <i>Biotechnology Progress</i> , 2011, 27, 863-869. | 2.6 | 11 |
| 77 | Global and local molecular dynamics of a bacterial carboxylesterase provide insight into its catalytic mechanism. <i>Journal of Molecular Modeling</i> , 2012, 18, 2869-2883. | 1.8 | 11 |
| 78 | Activation of a camptothecin prodrug by specific carboxylesterases as predicted by quantitative structure-activity relationship and molecular docking studies. <i>Molecular Cancer Therapeutics</i> , 2003, 2, 1171-81. | 4.1 | 11 |
| 79 | 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> , 2000, 1, 457-463. | 8.2 | 10 |
| 80 | Synthesis and evaluation of esters and carbamates to identify critical functional groups for esterase-specific metabolism. <i>Bioorganic and Medicinal Chemistry</i> , 2003, 11, 3237-3244. | 3.0 | 10 |
| 81 | 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> , 2013, 2, e113. | 5.1 | 10 |
| 82 | Metabolism of 2-naphthylamine and benzidine by rat and human bladder organ cultures. <i>Carcinogenesis</i> , 1984, 5, 949-954. | 2.8 | 9 |
| 83 | Targeting ALK in pediatric RMS does not induce antitumor activity in vivo. <i>Cancer Chemotherapy and Pharmacology</i> , 2018, 82, 251-263. | 2.3 | 9 |
| 84 | Tissue-specific expression and induction of human O ⁶ -alkylguanine-dna alkyltransferase in transgenic mice. <i>Molecular Carcinogenesis</i> , 1992, 6, 26-31. | 2.7 | 8 |
| 85 | Construction of Adenovirus for High Level Expression of Small RNAs in Mammalian Cells: Application to a Bcl-2 Ribozyme. <i>Molecular Biotechnology</i> , 2000, 15, 105-114. | 2.4 | 8 |
| 86 | In silico design and evaluation of carboxylesterase inhibitors. <i>Journal of Pesticide Sciences</i> , 2010, 35, 240-249. | 1.4 | 8 |
| 87 | Potent, Irreversible Inhibition of Human Carboxylesterases by Tanshinone Anhydrides Isolated from <i>Salvia miltiorrhiza</i> (Danshen). <i>Journal of Natural Products</i> , 2018, 81, 2410-2418. | 3.0 | 8 |
| 88 | Development of an etoposide prodrug for dual prodrug-enzyme antitumor therapy. <i>Molecular Cancer Therapeutics</i> , 2006, 5, 1577-1584. | 4.1 | 7 |
| 89 | 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> , 2011, 1811, 39-45. | 2.4 | 6 |
| 90 | Tumour-selective targeting of drug metabolizing enzymes to treat metastatic cancer. <i>British Journal of Pharmacology</i> , 2016, 173, 2811-2818. | 5.4 | 5 |

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|----|--|-----|-----------|
| 91 | Inhibition of carboxylesterase-1 alters clopidogrel metabolism and disposition. <i>Xenobiotica</i> , 2020, 50, 245-251. | 1.1 | 5 |
| 92 | Enzyme-Prodrug Systems: Carboxylesterase/CPT-11. , 2004, 90, 247-262. | | 3 |
| 93 | 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> , 2003, 304, 699-705. | 2.5 | 1 |
| 94 | Abstract 3109: ALK as a valid therapeutic target for the treatment of rhabdomyosarcoma. , 2014, , . | | 0 |