

Bernd Clement

List of Publications by Year in descending order

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92
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2,754
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186265

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197818

49
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all docs

100
docs citations

100
times ranked

2349
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The Novel Dual Topoisomerase Inhibitor P8-D6 Shows Anti-myeloma Activity <i>In Vitro</i> and <i>In Vivo</i> . <i>Molecular Cancer Therapeutics</i> , 2022, 21, 70-78. | 4.1 | 1 |
| 2 | High Antitumor Activity of the Dual Topoisomerase Inhibitor P8-D6 in Breast Cancer. <i>Cancers</i> , 2022, 14, 2. | 3.7 | 6 |
| 3 | Letter to the editor: The clinically relevant MTARC1 p.Ala165Thr variant impacts neither the fold nor active site architecture of the human mARC1 protein. <i>Hepatology Communications</i> , 2022, 6, 3277-3278. | 4.3 | 10 |
| 4 | Enzyme Electrode Biosensors for <i>N</i> -Hydroxylated Prodrugs Incorporating the Mitochondrial Amidoxime Reducing Component. <i>Analytical Chemistry</i> , 2022, 94, 9208-9215. | 6.5 | 5 |
| 5 | Newly developed dual topoisomerase inhibitor P8-D6 is highly active in ovarian cancer. <i>Therapeutic Advances in Medical Oncology</i> , 2021, 13, 175883592110598. | 3.2 | 3 |
| 6 | Discovery of <i>N</i> -(4-Aminobutyl)- <i>N</i> -(2-methoxyethyl)guanidine as the First Selective, Nonamino Acid, Catalytic Site Inhibitor of Human Dimethylarginine Dimethylaminohydrolase-1 (<i>DDAH-1</i>). <i>Journal of Medicinal Chemistry</i> , 2020, 63, 425-432. | 6.4 | 3 |
| 7 | Drug Metabolism by the Mitochondrial Amidoxime Reducing Component (mARC): Rapid Assay and Identification of New Substrates. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 6538-6546. | 6.4 | 11 |
| 8 | A Novel Prodrug of a nNOS Inhibitor with Improved Pharmacokinetic Potential. <i>ChemMedChem</i> , 2020, 15, 2157-2163. | 3.2 | 4 |
| 9 | The Aza-Analogous Benzo[<i>c</i>]phenanthridine P8-D6 Acts as a Dual Topoisomerase I and II Poison, thus Exhibiting Potent Genotoxic Properties. <i>Molecules</i> , 2020, 25, 1524. | 3.8 | 12 |
| 10 | Mitochondrial amidoxime-reducing component 2 (MARC2) has a significant role in <i>N</i> -reductive activity and energy metabolism. <i>Journal of Biological Chemistry</i> , 2019, 294, 17593-17602. | 3.4 | 15 |
| 11 | The Pharmacokinetics of Fumaric Acid Esters Reveal Their <i>In Vivo</i> Effects. <i>Trends in Pharmacological Sciences</i> , 2018, 39, 1-12. | 8.7 | 85 |
| 12 | Crystal structure of human mARC1 reveals its exceptional position among eukaryotic molybdenum enzymes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 11958-11963. | 7.1 | 41 |
| 13 | T4 lysozyme-facilitated crystallization of the human molybdenum cofactor-dependent enzyme mARC. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2018, 74, 337-344. | 0.8 | 4 |
| 14 | Detoxification of Trimethylamine <i>N</i> -Oxide by the Mitochondrial Amidoxime Reducing Component mARC. <i>Chemical Research in Toxicology</i> , 2018, 31, 447-453. | 3.3 | 23 |
| 15 | The Involvement of the Mitochondrial Amidoxime Reducing Component (mARC) in the Reductive Metabolism of Hydroxamic Acids. <i>Drug Metabolism and Disposition</i> , 2018, 46, 1396-1402. | 3.3 | 16 |
| 16 | A Dual Topoisomerase Inhibitor of Intense Proapoptotic and Antileukemic Nature for Cancer Treatment. <i>ChemMedChem</i> , 2017, 12, 347-352. | 3.2 | 13 |
| 17 | Human mitochondrial amidoxime reducing component (mARC): An electrochemical method for identifying new substrates and inhibitors. <i>Electrochemistry Communications</i> , 2017, 84, 90-93. | 4.7 | 12 |
| 18 | Defining the Role of the NADH-Cytochrome-b5 Reductase 3 in the Mitochondrial Amidoxime Reducing Component Enzyme System. <i>Drug Metabolism and Disposition</i> , 2016, 44, 1617-1621. | 3.3 | 10 |

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|----|---|-----|-----------|
| 19 | Platform for determining the inhibition profile of neuraminidase inhibitors in an influenza virus N1 background. <i>Journal of Virological Methods</i> , 2016, 237, 192-199. | 2.1 | 7 |
| 20 | 11-Substituted Benzo[<i>c</i>]phenanthridines: New Structures and Insight into Their Mode of Antiproliferative Action. <i>ChemMedChem</i> , 2016, 11, 2155-2170. | 3.2 | 6 |
| 21 | Design, Synthesis, and Bioactivation of <i>O</i> -Glycosylated Prodrugs of the Natural Nitric Oxide Precursor <i>N</i> ¹⁰ -Hydroxy-L-arginine. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 8030-8041. | 6.4 | 6 |
| 22 | One-Step Synthetic Access to Isosteric and Potent Anticancer Nitrogen Heterocycles with the Benzo[<i>c</i>]phenanthridine Scaffold. <i>Chemistry - A European Journal</i> , 2016, 22, 8301-8308. | 3.3 | 7 |
| 23 | An Efficient Synthesis of Optically Pure <i>N</i> ¹ -Monomethylated L-Arginine and L-Ornithine. <i>Synthesis</i> , 2016, 48, 723-729. | 2.3 | 1 |
| 24 | Frontispiece: Triggering the Directional Selectivity of a Ring-Closure Reaction Leads to Pyridoazacarbazoles with Anticancer Properties. <i>Chemistry - A European Journal</i> , 2015, 21, n/a-n/a. | 3.3 | 0 |
| 25 | Zanamivir Amidoxime- and <i>N</i> -Hydroxyguanidine-Based Prodrug Approaches to Tackle Poor Oral Bioavailability. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 3208-3219. | 3.3 | 19 |
| 26 | Synthesis, Characterization and NO Synthase Inhibition Testing of 2-Aryl-5-oxo-3,4,5,6-tetrahydropyrimidinium Chlorides. <i>Journal of Heterocyclic Chemistry</i> , 2015, 52, 24-39. | 3.6 | 3 |
| 27 | Electrochemical and mARC-Catalyzed Enzymatic Reduction of <i>p</i> -Substituted Benzamidoximes: Consequences for the Prodrug Concept – Amidoximes instead of Amidines. <i>ChemMedChem</i> , 2015, 10, 360-367. | 3.2 | 12 |
| 28 | The mammalian molybdenum enzymes of mARC. <i>Journal of Biological Inorganic Chemistry</i> , 2015, 20, 265-275. | 2.6 | 63 |
| 29 | Biotransformation Reactions and their Enzymes. , 2015, , 561-584. | | 2 |
| 30 | The Pivotal Role of the Mitochondrial Amidoxime Reducing Component 2 in Protecting Human Cells against Apoptotic Effects of the Base Analog <i>N</i> 6-Hydroxylaminopurine. <i>Journal of Biological Chemistry</i> , 2015, 290, 10126-10135. | 3.4 | 20 |
| 31 | Triggering the Directional Selectivity of a Ring-Closure Reaction Leads to Pyridoazacarbazoles with Anticancer Properties. <i>Chemistry - A European Journal</i> , 2015, 21, 6668-6672. | 3.3 | 5 |
| 32 | The Mitochondrial Amidoxime Reducing Component (mARC): Involvement in Metabolic Reduction of <i>N</i> -Oxides, Oximes and <i>N</i> -Hydroxyamidinohydrazones. <i>ChemMedChem</i> , 2014, 9, 2381-2387. | 3.2 | 25 |
| 33 | Reduction of Sulfamethoxazole Hydroxylamine (SMX-HA) by the Mitochondrial Amidoxime Reducing Component (mARC). <i>Chemical Research in Toxicology</i> , 2014, 27, 1687-1695. | 3.3 | 29 |
| 34 | Synthesis of <i>p</i> -amino- <i>N</i> , <i>N</i> ² -dihydroxybenzamidine using a TBDMS protecting group protocol. <i>Tetrahedron Letters</i> , 2014, 55, 3322-3324. | 1.4 | 2 |
| 35 | Synthesis and Characterization of <i>p</i> -Substituted <i>N</i> , <i>N</i> ² -Dihydroxybenzamidines and Their Derivatives as Model Compounds for a Class of Prodrugs. <i>European Journal of Organic Chemistry</i> , 2014, 2014, 1961-1975. | 2.4 | 16 |
| 36 | Functional Characterization of Protein Variants Encoded by Nonsynonymous Single Nucleotide Polymorphisms in <i>MARC1</i> and <i>MARC2</i> in Healthy Caucasians. <i>Drug Metabolism and Disposition</i> , 2014, 42, 718-725. | 3.3 | 14 |

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|----|--|-----|-----------|
| 37 | Development of Novel Potent Orally Bioavailable Oseltamivir Derivatives Active against Resistant Influenza A. <i>Journal of Medicinal Chemistry</i> , 2014, 57, 759-769. | 6.4 | 77 |
| 38 | In vivo SPECT imaging of [123I]-labeled pentamidine pro-drugs for the treatment of human African trypanosomiasis, pharmacokinetics, and bioavailability studies in rats. <i>International Journal of Pharmaceutics</i> , 2014, 477, 167-175. | 5.2 | 2 |
| 39 | The N-Reductive System Composed of Mitochondrial Amidoxime Reducing Component (mARC), Cytochrome b5 (CYB5B) and Cytochrome b5 Reductase (CYB5R) Is Regulated by Fasting and High Fat Diet in Mice. <i>PLoS ONE</i> , 2014, 9, e105371. | 2.5 | 21 |
| 40 | Activation of the anti-cancer agent upamostat by the mARC enzyme system. <i>Xenobiotica</i> , 2013, 43, 780-784. | 1.1 | 32 |
| 41 | The Involvement of Mitochondrial Amidoxime Reducing Components 1 and 2 and Mitochondrial Cytochrome b5 in N-Reductive Metabolism in Human Cells. <i>Journal of Biological Chemistry</i> , 2013, 288, 20228-20237. | 3.4 | 44 |
| 42 | Synthesis of Pyrido[3,4-c][1,9]phenanthroline - A Five-Step Procedure to a Novel N-Containing Ring Skeleton. <i>Synthesis</i> , 2013, 45, 893-895. | 2.3 | 1 |
| 43 | ¹ H, ¹³ C and ¹⁵ N NMR spectral analysis of substituted 1,2,3,4-tetrahydro- ϵ -pyrido[1,2-a]pyrimidines. <i>Magnetic Resonance in Chemistry</i> , 2013, 51, 714-721. | 1.9 | 3 |
| 44 | The Mitochondrial Amidoxime Reducing Component (mARC) Is Involved in Detoxification of N-Hydroxylated Base Analogues. <i>Chemical Research in Toxicology</i> , 2012, 25, 2443-2450. | 3.3 | 52 |
| 45 | Dimethylarginine- ϵ -Dimethylaminohydrolase-2 (DDAH-2) Does Not Metabolize Methylarginines. <i>ChemBioChem</i> , 2012, 13, 2599-2604. | 2.6 | 9 |
| 46 | Designing modulators of dimethylarginine dimethylaminohydrolase (DDAH): A focus on selectivity over arginase. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2012, 27, 24-28. | 5.2 | 9 |
| 47 | Synthesis and physicochemical characterization of novel 6-aminopyrido[3,4-c][1,9]phenanthrolines as aza-analogs of benzo[c]phenanthridines. <i>Tetrahedron</i> , 2012, 68, 9105-9112. | 1.9 | 6 |
| 48 | Analysis of highly potent amidine containing inhibitors of serine proteases and their N-hydroxylated prodrugs (amidoximes). <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2011, 26, 115-122. | 5.2 | 17 |
| 49 | The fourth mammalian molybdenum enzyme mARC: current state of research. <i>Drug Metabolism Reviews</i> , 2011, 43, 524-539. | 3.6 | 64 |
| 50 | Prodrug design for the potent cardiovascular agent N ^ω -hydroxy-L-arginine (NOHA): Synthetic approaches and physicochemical characterization. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 5249. | 2.8 | 15 |
| 51 | Reduction of N ^ω -hydroxy-L-arginine by the mitochondrial amidoxime reducing component (mARC). <i>Biochemical Journal</i> , 2011, 433, 383-391. | 3.7 | 80 |
| 52 | New Prodrugs of the Antiprotozoal Drug Pentamidine. <i>ChemMedChem</i> , 2011, 6, 2233-2242. | 3.2 | 21 |
| 53 | Synthesis and biological evaluation of L-valine-amidoximeesters as double prodrugs of amidines. <i>Bioorganic and Medicinal Chemistry</i> , 2011, 19, 1907-1914. | 3.0 | 13 |
| 54 | Modulating the NO generating system from a medicinal chemistry perspective: Current trends and therapeutic options in cardiovascular disease. , 2010, 126, 279-300. | | 33 |

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|----|--|-----|-----------|
| 55 | Arylazoamidoximes and Related Compounds as NO-Modulators. <i>Archiv Der Pharmazie</i> , 2010, 343, 9-16. | 4.1 | 1 |
| 56 | Reduction of <i>N</i> -Hydroxy-sulfonamides, Including <i>N</i> -Hydroxy-valdecoxib, by the Molybdenum-Containing Enzyme mARC. <i>Drug Metabolism and Disposition</i> , 2010, 38, 1917-1921. | 3.3 | 47 |
| 57 | Biochemical and Spectroscopic Characterization of the Human Mitochondrial Amidoxime Reducing Components hmARC-1 and hmARC-2 Suggests the Existence of a New Molybdenum Enzyme Family in Eukaryotes. <i>Journal of Biological Chemistry</i> , 2010, 285, 37847-37859. | 3.4 | 99 |
| 58 | The Peptidylglycine β -Amidating Monooxygenase (PAM): A Novel Prodrug Strategy for Amidoximes and <i>N</i> -Hydroxyguanidines?. <i>ChemMedChem</i> , 2009, 4, 1595-1599. | 3.2 | 12 |
| 59 | Synthesis and evaluation of pyrido[1,2- <i>a</i>]pyrimidines as inhibitors of nitric oxide synthases. <i>European Journal of Medicinal Chemistry</i> , 2009, 44, 2877-2887. | 5.5 | 13 |
| 60 | Incorporation of neutral C-terminal residues in 3-amidinophenylalanine-derived matriptase inhibitors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 1960-1965. | 2.2 | 18 |
| 61 | <i>N</i> ¹ -Methylated <i>L</i> -arginine derivatives and their effects on the nitric oxide generating system. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 2305-2312. | 3.0 | 13 |
| 62 | Structure-activity relationship of novel and known inhibitors of human dimethylarginine dimethylaminohydrolase-1: Alkenyl-amidines as new leads. <i>Bioorganic and Medicinal Chemistry</i> , 2008, 16, 10205-10209. | 3.0 | 30 |
| 63 | Inhibitory Effects on Cytochrome P450 Enzymes of Pentamidine and Its Amidoxime Prodrug. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2008, 103, 61-65. | 2.5 | 5 |
| 64 | The Fourth Molybdenum Containing Enzyme mARC: Cloning and Involvement in the Activation of <i>N</i> -Hydroxylated Prodrugs. <i>Journal of Medicinal Chemistry</i> , 2008, 51, 8173-8177. | 6.4 | 103 |
| 65 | Efficient Synthesis of Optically Pure <i>N</i> ¹ -Alkylated <i>L</i> -Arginines. <i>Synthesis</i> , 2008, 2008, 2391-2397. | 2.3 | 5 |
| 66 | <i>N,N</i> ² -Dihydroxyamidines: A New Prodrug Principle To Improve the Oral Bioavailability of Amidines. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 6730-6734. | 6.4 | 14 |
| 67 | Highly Potent and Selective Substrate Analogue Factor Xa Inhibitors Containing <i>D</i> -Homophenylalanine Analogues as P3 Residue: Part 2. <i>ChemMedChem</i> , 2007, 2, 1043-1053. | 3.2 | 28 |
| 68 | Reduction of <i>N</i> ¹ -hydroxy- <i>L</i> -arginine to <i>L</i> -arginine by pig liver microsomes, mitochondria, and human liver microsomes. <i>Biochemical and Biophysical Research Communications</i> , 2006, 349, 869-873. | 2.1 | 9 |
| 69 | Inhibitory Effects of Cytostatically Active 6-Aminobenzo[<i>c</i>]phenanthridines on Cytochrome P450 Enzymes in Human Hepatic Microsomes. <i>Basic and Clinical Pharmacology and Toxicology</i> , 2006, 99, 37-43. | 2.5 | 2 |
| 70 | Oxygen-insensitive enzymatic reduction of oximes to imines. <i>Biochemical Pharmacology</i> , 2006, 71, 354-365. | 4.4 | 18 |
| 71 | Diacytyldiamidoximeester of Pentamidine, a Prodrug for Treatment of Protozoal Diseases: Synthesis, <i>in vitro</i> and <i>in vivo</i> Biotransformation. <i>ChemMedChem</i> , 2006, 1, 1260-1267. | 3.2 | 26 |
| 72 | Identification of the Missing Component in the Mitochondrial Benzamidoxime Prodrug-converting System as a Novel Molybdenum Enzyme. <i>Journal of Biological Chemistry</i> , 2006, 281, 34796-34802. | 3.4 | 152 |

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|----|---|------|-----------|
| 73 | A Two-Step Synthesis of Cytostatically Active Benzo[c]phenanthridine Derivatives. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 635-638. | 13.8 | 59 |
| 74 | A Two-Step Synthesis of Cytostatically Active Benzo[c]phenanthridine Derivatives.. <i>ChemInform</i> , 2005, 36, no. | 0.0 | 0 |
| 75 | HEPATIC, EXTRAHEPATIC, MICROSOMAL, AND MITOCHONDRIAL ACTIVATION OF THE N-HYDROXYLATED PRODRUGS BENZAMIDOXIME, GUANOXABENZ, AND RO 48-3656 ([1-[(2S)-2-[[4-[(HYDROXYAMINO)IMINOMETHYL]BENZOYL]AMINO]-1-OXOPROPYL]-4-PIPERIDINYL]OXY]-ACETIC) ETQq11 0.7849 | 3.3 | 10 |
| 76 | METABOLISM OF N-HYDROXYGUANIDINES (N-HYDROXYDEBRISOQUINE) IN HUMAN AND PORCINE HEPATOCYTES: REDUCTION AND FORMATION OF GLUCURONIDES. <i>Drug Metabolism and Disposition</i> , 2005, 33, 1532-1537. | 3.3 | 10 |
| 77 | Synthesis and Biological Evaluation of 11-Substituted 6-Aminobenzo[c]phenanthridine Derivatives, a New Class of Antitumor Agents. <i>Journal of Medicinal Chemistry</i> , 2005, 48, 2772-2777. | 6.4 | 97 |
| 78 | Reduction of sulfamethoxazole and dapsone hydroxylamines by a microsomal enzyme system purified from pig liver and pig and human liver microsomes. <i>Life Sciences</i> , 2005, 77, 205-219. | 4.3 | 13 |
| 79 | Lessons Learned from Marketed and Investigational Prodrugs. <i>Journal of Medicinal Chemistry</i> , 2004, 47, 2393-2404. | 6.4 | 339 |
| 80 | Characterization of in Vitro Biotransformation of New, Orally Active, Direct Thrombin Inhibitor Ximelagatran, an Amidoxime and Ester Prodrug. <i>Drug Metabolism and Disposition</i> , 2003, 31, 645-651. | 3.3 | 82 |
| 81 | REDUCTION OF N-HYDROXYLATED COMPOUNDS: AMIDOXIMES (N-HYDROXYAMIDINES) AS PRO-DRUGS OF AMIDINES. <i>Drug Metabolism Reviews</i> , 2002, 34, 565-579. | 3.6 | 113 |
| 82 | Phase 2 Metabolites of N-Hydroxylated Amidines (Amidoximes): Synthesis, in Vitro Formation by Pig Hepatocytes, and Mutagenicity Testing. <i>Chemical Research in Toxicology</i> , 2001, 14, 319-326. | 3.3 | 17 |
| 83 | Reduction of Amphetamine Hydroxylamine and Other Aliphatic Hydroxylamines by Benzamidoxime Reductase and Human Liver Microsomes. <i>Chemical Research in Toxicology</i> , 2000, 13, 1037-1045. | 3.3 | 15 |
| 84 | Isolation and Characterization of the Protein Components of the Liver Microsomal O ₂ -insensitive NADH-Benzamidoxime Reductase. <i>Journal of Biological Chemistry</i> , 1997, 272, 19615-19620. | 3.4 | 46 |
| 85 | Microsomal Catalyzed N-Hydroxylation of Guanabenz and Reduction of the N-Hydroxylated Metabolite: Characterization of the Two Reactions and Genotoxic Potential of Guanoxabenz. <i>Chemical Research in Toxicology</i> , 1996, 9, 682-688. | 3.3 | 43 |
| 86 | Biotransformations of Benzamidine and Benzamidoxime in vivo. <i>Archiv Der Pharmazie</i> , 1993, 326, 807-812. | 4.1 | 14 |
| 87 | Cytochrome P450 dependent N-hydroxylation of a guanidine (debrisoquine), microsomal catalysed reduction and further oxidation of the N-hydroxy-guanidine metabolite to the urea derivative. <i>Biochemical Pharmacology</i> , 1993, 46, 2249-2267. | 4.4 | 66 |
| 88 | The reduction of 6-N-hydroxylaminopurine to adenine by xanthine oxidase. <i>Biochemical Pharmacology</i> , 1992, 44, 1501-1509. | 4.4 | 20 |
| 89 | Reduction of Amidoxime Derivatives to Pentamidine in vivo.. <i>Archiv Der Pharmazie</i> , 1992, 325, 61-62. | 4.1 | 37 |
| 90 | Hepatic microsomal N-hydroxylation of adenine to 6-N-hydroxylaminopurine. <i>Biochemical Pharmacology</i> , 1990, 39, 925-933. | 4.4 | 35 |

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|----|--|-----|-----------|
| 91 | Enzymatic Reduction of Benzamidoxime to Benzamidoxine. <i>Archiv Der Pharmazie</i> , 1988, 321, 955-956. | 4.1 | 28 |
| 92 | Mechanism of the microsomal N-hydroxylation of para-substituted benzamidines. <i>Biochemical Pharmacology</i> , 1988, 37, 4747-4752. | 4.4 | 13 |