

Websites that summarize chemotherapy of COVID-19

					A website name											URL		
					Balint Földesi	Using Existing Therapeutics Against COVID-19										https://www.biomol.com/resources/biomol-blog/using-existing-therapeutics-against-covid-19		
					National Institute of Health (NIH)	COVID-19 Treatment Guidelines										https://www.covid19treatmentguidelines.nih.gov/		
					Centers for Disease Control and Prevention	COVID-19										https://www.cdc.gov/coronavirus/2019-ncov/hcp/therapeutic-options.html		
					厚生労働省	新型コロナウイルス感染症について										https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/0000164708_00001.html		
					厚生労働省	新型コロナウイルス感染症について										https://www.mhlw.go.jp/stf/seisakunitsuite/bunya/0000164708_00001.html		

Publications regarding anticoronavirus drugs (case reports are not included)
既存の臨床薬の新型コロナウイルスに対する効果に関する論文(小規模症例報告を除く)

Drug 1 (論文で述べられている薬剤名1)	Drug 2 (論文で述べられている薬剤名2)	Drug 3 (論文で述べられている薬剤名3)	Drug 4 (論文で述べられている薬剤名4)	Authors (論文著者)	Title of publication (論文タイトル)	Communication/Article	Journal name (掲載雑誌名)	Year	Vol	No.	First page	Last page	Page	DOI	URL	SNS source	SNS source
acalabrutinib				Mark Kuschewski, Michael S. Blomkas, Jeff P. Sharman, Joseph Roswarski, Andre Goy, M. Andrew Monticelli, Michael Roshon, Stephen H. Wrzesinski, Jigar V. Desai, Marissa A. Zarakas, Jacob Collen, Keith Rose, Ahmed Hamdy, Raquel Izumi, George W. Wright, Kevin K. Chung, Jose Baselga, Louis M. Staudt, Wyndham H. Wilson	Inhibition of Bruton tyrosine kinase in patients with severe COVID-19	Article	Science Immunology	2020		5	48			https://dx.doi.org/10.1126/sciimmunol.abd0110	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7274761/		
amlodipine				Lei-Ke Zhang, Yuan Sun, Haolong Zeng, Qingxing Wang, Xianming Jiang, Wei-Juan Shang, Yan Wu, Shufen Li, Yu-Lan Zhang, Zhao-Nian Hao, Hongbo Chen, Runming Jin, Wei Liu, Hao Li, Ke Peng and Gengfu Xiao	Calcium channel blocker amlodipine besylate therapy is associated with reduced case fatality rate of COVID-19 patients with hypertension	Article	Cell Discovery	2020		6	96		12	https://doi.org/10.1038/s41421-020-00235-0			

	amodiaquine			Yasufuru Sakurai, Norikazu Sakakibara, Masaaki Toyama, Masanori Baba, Robert A. Davey,	Novel amodiaquine derivatives potently inhibit Ebola virus infection	full paper	Antiviral Research	2018	160		175	182	8	doi.org/10.1016/j.antiviral.2018.10.025	https://doi.org/10.1016/j.antiviral.2018.10.025		
	arbidol	favipiravir		Chang Chen, Yi Zhang, Jiaying Huang, Ping Yin, Zhenshun Cheng, Jianyuan Wu, Song Chen, Yongxi Zhang, Bo Chen, Mengxin Lu, Yongwen Luo, Lingao Ju, Jingyi Zhang, Xinghuan Wang	Favipiravir versus Arbidol for COVID-19: A Randomized Clinical Trial	full paper										medRxiv	https://www.medrxiv.org/content/10.1101/2020.03.17.20037432v4
	arbidol	chloroquine phosphate	lopinavir/ritonavir	ribavirin	Liyong Dong, Shasha Hu, Jianjun Gao	Discovering drugs to treat coronavirus disease 2019 (COVID-19)	communication	Drug Discoveries & Therapeutics	2020	14	1	58	60	DOI: 10.5582/ddt.2020.01012		J-Stage	https://www.jstage.jst.go.jp/article/ddt/14/1/14_2020.01012/article-char/ja/
	artemisinin	chloroquine	mefloquine		海老沢 功	抗マラリア薬研究の進歩	review	日本化学療法学会雑誌	2007	55	5	351	357	DOI: org/10.11250/cchemotherapy1995.55.351	https://doi.org/10.11250/cchemotherapy1995.55.351	J-Stage	https://www.jstage.jst.go.jp/article/chemotherapy1995/55/5/55_5_351/article-char/ja/
	boceprevir	GC376			Lileng Fu, Fei Ye, Yong Feng, Feng Yu, Qisheng Wang, Yan Wu, Cheng Zhao, Huan Sun, Baoying Huang, Peitua Niu, Hao Song, Yi Shi, Xuebing Li, Wenjie Tan, Jiaxin Qian and George Fu Gao	Both Boceprevir and GC376 efficaciously inhibit SARS-CoV-2 by targeting its main protease	Article	Nature Communications	2020	11	4417		8	https://doi.org/10.1038/s41467-020-18233-x			
	boceprevir (GC-376)				Chunlong Ma, Michael Dominic Sacco, Brett Hurst, Julia Alma Townsend, Yanmei Hu, Tommy Szeto, Xiujun Zhang, Bart Tarbet, Michael Thomas Marty, Yu Chen and Jun Wang	Boceprevir, GC-376, and calpain inhibitors II, XII inhibit SARS-CoV-2 viral replication by targeting the viral main protease	full paper	Cell Research	2020		0	1	5	5	https://doi.org/10.1038/s41422-020-0356-z		
	cenicriviroc				Mika Okamoto, Masaaki Toyama, Masanori Baba	The chemokine receptor antagonist cenicriviroc inhibits the replication of SARS-CoV-2 in vitro	full paper	Antiviral Research	2020	182		104902	6	org/10.1016/j.antiviral.2020.10.4902	https://doi.org/10.1016/j.antiviral.2020.10.4902		
	cepharanthine				M. Baba, M. Okamoto, N. Kashiwaba and M. Ono	Anti-HIV-1 activity and structure-activity relationship of cepharanthine derivatives in chronically infected cells	full paper	Antiviral Chemistry & Chemotherapy	2002	12		307	312	6			
	cepharanthine				Christian Bailly	Cepharanthine: An update of its mode of action, pharmacological properties and medical applications	Review	Phytomedicine	2019	62		152956	12	DOI: org/10.1016/j.phymed.2019.152956	https://doi.org/10.1016/j.phymed.2019.152956		
	cepharanthine				Moshe Rogosnitzky, Rachel Danks	Therapeutic potential of the bisocoumarin alkaloid, cepharanthine, for a range of clinical conditions	Review	Pharmacological Reports	2011	63		337	347	11		ResearchGate	https://www.researchgate.net/publication/51156184_Therapeutic_potential_of_the_bisocoumarin_alkaloid_cepharanthine_for_a_range_of_clinical_conditions
	cepharanthine	GUT-70			松田 幸樹, 岡田 誠治	フローサイトメトリーを用いたウイルス侵入阻害薬スクリーニング法の樹立		Cytometry Research	2015	25	1	25	28	4		J-Stage	https://www.jstage.jst.go.jp/article/cytometryresearch/25/1/25_D-15-00005/article-char/ja/
	cepharanthine				岡本実佳 Mika OKAMOTO	宿主細胞因子を標的にしたHIV-1抑制に関する研究 (Cellular Factors as Targets for Anti-HIV-1 Chemotherapy)	Review	The Journal of AIDS Research (日本エイズ学会誌)	2006	8	2	92	99	8		J-Stage	https://www.jstage.jst.go.jp/article/aidsr1999/8/2/8_2_92/article-char/ja/
	cepharanthine				亀谷哲治、八木治彦、浅黄節、菅野和子、藤坂菊雄 Tetsuji Kametani, Haruhiko Yagi, Setsu Asagi, Kazuko Kanno, Kikuo Wakisaka	Cepharanthine関連化合物の合成研究 (第2報) 1-(3-Bromo-4-methoxybenzyl)-1,2,3,4-tetrahydro-6-methoxy-2-methyl-7-isoquinolinolの合成 (複素環式化合物の合成研究 第183号)	Full paper	薬学雑誌 (Yakugaku Zasshi)	1967	87	7	749	752	4			
	cepharanthine	atovaquone (ATO),	chloroquine (CQ),	lumefantrine (LUM), piperazine (PPQ)	Camille Desgrouas, Jérôme Dormoi, Charles Chapus, Evelyne Ollivier, Daniel Parzy and Nicolas Taudon	In vitro and in vivo combination of cepharanthine with anti-malarial drugs		Malaria Journal	2014	13	90		7	DOI: 10.1186/1475-2875-13-90	http://www.malariajournal.com/content/13/1/90	ResearchGate	

	cepharanthine				Kouki Matsuda, Shinichiro Hattori, Yuji Komizu, Ryusho Kariya, Ryuichi Ueoka, Seiji Okada	Cepharanthine Inhibited HIV-1 Cell-Cell Transmission and Cell-free Infection via modification of cell Membrane Fluidity	full paper	Bioorganic & Medicinal Chemistry Letters	2014	24		2115	2117	3	doi.org/10.1016/j.bmcl.2014.03.041	https://www.sciencedirect.com/science/article/pii/S0960894X14002686			
	cepharanthine	fangchinoline	tetrandrine		Dong Eon Kim, Jung Sun Min, Min Seong Jang, Jun Young Lee, Young Sup Shin, Chul Min Park, Jong Hwan Song, Hyoung Rae Kim, Seungtaek Kim, Young-Hee Jin and Sunoh Kwon	Natural Bis-Benzylisoquinoline Alkaloids-Tetrandrine, Fangchinoline, and Cepharanthine, Inhibit Human Coronavirus OC43 Infection of MRC-5 Human Lung Cells	full paper	Biomolecules	2019	9		696		16 pages	doi:10.3390/biom9110696	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6921063/			
	cepharanthine	nefnavir			Hirofumi Ohashi, Koichi Watashi, Wakana Saso, Kaho Shionoya, Shoya Iwanami, Takatsugu Hirokawa, Tsuyoshi Shirai, Shigehiko Kanaya, Yusuke Ito, Kwang Su Kim, Takao Nomura, Takeki Suzuki, Kazane Nishioka, Shuji Ando, Keisuke Ejima, Yoshiaki Koizumi, Tomohiro Tanaka, Shin Aoki, Kouji Kuramochi, Tadaki Suzuki, Takao Hashiguchi, Katsumi Maenaka, Tetsuro Matano, Masamichi Muramatsu, Masayuki Saijo, Kazuyuki	Potential Anti-COVID-19 Agents, Cepharanthine and Nefnavir, and Their Usage for Combination Treatment	full paper	iScience	2021					1			https://www.biorxiv.org/content/10.1101/2020.04.14.039925v1.full.pdf+html		
	cepharanthine	nafamostat			岡野和雄	メシル酸ナファモスタットとセファランチンの併用による小口径静脈再建後早期における抗血栓作用に関する実験的研究		岡山医学会雑誌	1992	104		107	115	9			J-Stage	https://www.jstage.jst.go.jp/article/joma1947/104/1-2/104_1-2_107/_pdf	
	cepharanthine	gabexate	nafamostat		岡野和雄	蛋白酶分解酵素阻害剤およびマファランチンの小口径静脈再建における抗血栓作用に関する実験的研究		人工臓器	1990	19	3	1353	1356	4			J-Stage	https://www.jstage.jst.go.jp/article/jsoa1972/19/3/19_3_1353/_article-char/ja/	
	cepharanthine				Masao Tomita, Kazuyoshi Fujitani, and Yoshiaki Aoyagi	Synthesis of dl-Cepharanthine	communicatoin	Tetrahedron Letters	1967	13		1201	1206	6					
	cepharanthine	mefloquine	selamectin		Hua-Hao Fan, Li-Qin Wang, Wen-Li Liu, Xiao-Ping An, Zhen-Dong Liu, Xiao-Qi He, Li-Hua Song, Yi-Gang Tong	Repurposing of clinically approved drugs for treatment of coronavirus disease 2019 in a 2019-novel coronavirus-related coronavirus model		Chinese Medical Journal	2020	133	9	1051	1056	6	DOI:10.1097/C.M9.0000000000000797.	https://journals.lww.com/cmj/Fulltext/2020/05050/Repurposing_of_clinically_approved_drugs_for_8.aspx		https://pubmed.ncbi.nlm.nih.gov/32149769/	
	cepharanthine				横島 徹, 堤 修一郎, 大槻 俊治, 高市 松夫, 中島 敏秀, 赤須 通範	Cepharanthineの生体内動態に関する研究、ラットにおける吸収、分布、代謝、排泄 (Studies on Metabolic Fate of Cepharanthine Absorption, Distribution, Metabolism and Excretion in Rats).	論文	医薬品研究	1986	17	3	458	479	22			J-GLOBAL	https://jglobal.jst.go.jp/detail?JGLOBAL_ID=200902098942424967	
	cepharanthine				安田耕太郎, 茂呂光男, 赤須 通範, 大西明弘	Cepharanthin の第I相臨床試験(単回および連続静脈内投与)における薬物動態	論文	臨床薬理、Japanese Journal of Clinical and Pharmacological	1989	20	4	741	749	9			J-STAGE	https://www.jstage.jst.go.jp/article/jscpt1970/20/4/20_4_741/_article-char/ja/	
	chinese herbal medicines				Fangfang Huang, Ying Li, Elaine Lai-Han Leung, Xiaohua Liu, Kaifeng Liu, Qu Wang, Yongqi Lan, Xiaoling Li, Haibing Yu, Liao Cui, Hui Luo, Lianxiang Luo	A review of therapeutic agents and Chinese herbal medicines against SARS-COV-2 (COVID-19)	review	Pharmacological Reports	2020	158		104929		12	doi.org/10.1016/j.phrs.2020.10.4929	https://www.sciencedirect.com/science/article/pii/S1043661820312378?via%3DIihub			
No.	chloroquine	remdesivir			Manli Wang, Ruiyuan Cao, Leike Zhang, Xinglou Yang, Jia Liu, Mingyue Xu, Zhengli Shi, Zhihong Hu, Wu Zhong and Gengfu Xiao	Remdesivir and chloroquine effectively inhibit the recently emerged novel coronavirus (2019-nCoV) in vitro	Communication	Cell Research	2020	30		269	271	3		https://doi.org/10.1038/s41422-020-0282-0		https://pubmed.ncbi.nlm.nih.gov/31690059/	
	chloroquine				Satyajit Beura & Prabhakar Chetti	In-silico strategies for probing chloroquine based inhibitors against SARS-CoV-2	full paper	Journal of Biomolecular Structure and Dynamics	2020					1	DOI: 10.1080/07391102.2020.1772111	https://doi.org/10.1080/07391102.2020.1772111			
	chloroquine				Martin J Vincent, Eric Bergeron, Suzanne Benjannet, Bobbie R Erickson, Pierre E Rollin, Thomas G Ksiazek, Nabil G Seidah and Stuart T Nichol	Chloroquine is a potent inhibitor of SARS coronavirus infection and spread		Virology Journal	2005	2	69			10	DOI:10.1186/1743-422X-2-69	https://virology.biomedcentral.com/articles/10.1186/1743-422X-2-69			

chloroquine				Yi-Fan Wu, Ping Zhao, Xi Luo, Jin-Chao Xu, Lu Xue, Qi Zhou, Mingrui Xiong, Jinhua Shen, Yong-Bo Peng, Meng-Fei Yu, Weiwei Chen, Liqun Ma and Qing-Hua Liu	Chloroquine inhibits Ca2+ permeable ion channels-mediated Ca2+ signaling in primary B lymphocytes	Full paper	Cell & Bioscience	2017	7	28			5	DOI:10.1186/s13578-017-0155-5			https://pubmed.ncbi.nlm.nih.gov/28546857/	
chloroquine				ANDREW F. G. SLATER	Chloroquine Mechanism of Drug Action and Resistance in Plasmodium Falciparum	Review	Pharmaceutical Therapy	1993	57	2-3	203	235	33		https://www.sciencedirect.com/science/article/pii/S01672589390056J			
ciclesonide				Taylor, DA ; Jensen, MW ; Kanabar, V ; Engelstatter, R ; Steinjans, VW ; Barnes, PJ ; O'Connor, BJ	A Dose-dependent Effect of the Novel Inhaled Corticosteroid Ciclesonide on Airway Responsiveness to Adenosine-5'-Monophosphate in Asthmatic Patients	Article	American Journal of Respiratory and Critical Care Medicine	1999	160	1	237	243	7	10.1164/ajrccm.160.1.9809046	https://doi.org/10.1164/ajrccm.160.1.9809046			
dexamethasone	morphine			N. H. Waldron, C. A. Jones, T. J. Gan, T. K. Allen and A. S. Habib	Impact of perioperative dexamethasone on postoperative analgesia and side-effects: systematic review and meta-analysis	Review	British Journal of Anaesthesia	2013	110	2	191	200	10	10.1093/bja/ae431	https://doi.org/10.1093/bja/ae431			
emetine	homoharringtonine	lopinavir	remdesivir	Ka-Tim Choy, Alvina Yin-Lam Wong, Prathanporn Kaewpreedee, Sin Fun Sia, Dongdong Chen, Kenrie Pui Yan Hui, Daniel Ka Wing Chu, Michael Chi Wai Chan, Peter Pak-Hang Cheung, Xuhui Huang, Malik Peiris, Hui-Ling Yen	Remdesivir, lopinavir, emetine, and homoharringtonine inhibit SARS-CoV-2 replication in vitro	full paper	Antiviral Research	2020	178					5	DOI: org/10.1016/j.antiviral.2020.104786	https://doi.org/10.1016/j.antiviral.2020.104786		
favipiravir				Fangyuan Shi, Zongtao Li, Lingjin Kong, Yuanchao Xie, Tao Zhang, Wenfang Xu	Synthesis and crystal structure of 6-fluoro-3-hydroxypyrazine-2-carboxamide	full paper	Drug Discoveries & Therapeutics	2014	8	3	117	120	4	DOI: 10.5582/dtd.2014.01028				
favipiravir				古田要介	ファビピラビル：ウイルスRNA ポリメラーゼ阻害薬	review	日本化学療法学会雑誌	2017	65	5	736	744	9		http://www.chemotherapy.or.jp/journal/jic/06505/065050736.pdf		http://journal.chemotherapy.or.jp/detail.php?DB=jsc&-recid=5264&-action=browse	
favipiravir				古田要介	ファビピラビル(T-705) — ウイルスRNA 依存性RNA ポリメラーゼ阻害剤 —	review	日本臨床微生物学会誌	2019	29	2	58	66	9					
favipiravir	lopinavir/ritonavir			Qingxian Cai, Minghui Yang, Dongjing Liu, Jun Chen, Dan Shu, Junxia Xia, Xuejiao Liao, Yuanbo Gu, Qiue Cai, Yang Yang, Chenguang Shen, Xiaohu Li, Ling Peng, Deliang Huang, Jing Zhang, Shurong Zhang, Fuxiang Wang	Experimental Treatment with Favipiravir for COVID-19: An Open-Label Control Study		Engineering	2020							doi.org/10.1016/j.eng.2020.03.007		ResearchGate	https://www.researchgate.net/publication/34000976_Experimental_Treatment_with_Favipiravir_for_COVID-19_An_Open-Label_Control_Study
favipiravir				Yousuke Furuta, Takashi Komeno, and Takaaki Nakamura	Favipiravir (T-705), a broad spectrum inhibitor of viral RNA polymerase	review	Proceedings of the Japan Academy, Series B, Physical and Biological Sciences	2017	93	7	449	463	15	doi: 10.2183/pjab.93.027	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5713175/			
favipiravir				Leen Delang, Rana Abdelnabi, Johan Neyts	Favipiravir as a potential countermeasure against neglected and emerging RNA viruses	review	Antiviral Research	2019	153	May		85	94	10	doi.org/10.1016/j.antiviral.2018.03.003	https://www.sciencedirect.com/science/article/abs/pii/S0166354218304172		
favipiravir				Ashleigh Shannon , Barbara Selisko, Nhung-Thi-Tuyet Le , Johanna Huchting , Franck Touret , Géraldine Plorkowski, Véronique Fattorini , François Ferron , Etienne Decroly , Chris Meier, Bruno Coutard, Olive Peersen and Bruno Canard	Rapid incorporation of Favipiravir by the fast and permissive viral RNA polymerase complex results in SARS-CoV-2 lethal mutagenesis	Article	Nature Communications	2020	11		4682		9		https://doi.org/10.1038/s41467-020-18463-z			

GRL-1720	5h			Shin-ichiro Hattori, Nobuyo Higashi-Kuwata, Hironori Hayashi, Srinivasa Rao Allu, Jakka Raghavaiah, Haydar Bulut, Debananda Das, Brandon J. Anson, Emma K. Lendy, Yuki Takamatsu, Nobutoki Takamune, Naoki Kishimoto, Kazufaka Murayama, Kazuya Hasegawa, Mi Li, David A. Davis1, Eiichi N. Kodama, Robert Yarchoan, Alexander Wlodawer, Shogo Misumi, Andrew D. Mesecar, Arun K. Ghosh and Hiroaki Mitsuya	A small molecule compound with an indole moiety inhibits the main protease of SARS-CoV-2 and blocks virus replication	Article	Nature Communications	2021	12		668					https://doi.org/10.1038/s41467-021-20900-6			
GS-441524 (Parent drug of remdesivir)				Niels C Pedersen, Michel Perron, Michael Bannasch, Elizabeth Montgomery, Eisuke Murakami, Molly Liepnieks and Hongwei Liu	Efficacy and safety of the nucleoside analog GS-441524 for treatment of cats with naturally occurring feline infectious peritonitis	full paper	Journal of Feline Medicine and Surgery	2019	21	4	271	281	11	10.1177/1098612X19825701		https://journals.sagepub.com/doi/full/10.1177/1098612X19825701?cid=hwAR15cc053ldDVAJV0Hw8y5s_RJ8Z9QqeLJLjbiPogT5QdXBHagVTt8D7Yos	PubMed	https://pubmed.ncbi.nlm.nih.gov/30755068/	
ivermectin				Leon Caly, Julian D. Druce, Mike G. Catton, David A. Jans, Kylie M. Wagstaff	The FDA-approved drug ivermectin inhibits the replication of SARS-CoV-2 in vitro	full paper	Antiviral Research	2020	178		104787		4	DOI: org/10.1016/j.antiviral.2020.104787		https://doi.org/10.1016/j.antiviral.2020.104787			
ivermectin				Atsushi Miyajima, Takashi Hirota, Akihito Sugioke, Masao Fukuzawa, Mari Serine, Yosuke Yamamoto, Takashi Yoshimatsu, Akira Kigure, Taichi Anata, Wataru Noguchi, Keita Akaga, Masayo Komoda	Effect of high-fat meal intake on the pharmacokinetic profile of ivermectin in Japanese patients with scabies		Journal of Dermatology	2016	43		1030	1036	7	doi: 10.1111/1346-8138.13321					
ivermectin				阿久津駿太, 赤木圭太, 山田瑞穂, 矢田目麻衣, 倉科亮太, 丸山莉穂, 福沢正男, 関根万里, 尾関理恵, 小茂田昌代	イベルメクチンの高脂肪食後投与の影響に関する研究のサブ解析—肝機能障害発症例のリスク因子解析— (Sub analysis of the study on the effect of high fat meal intake on ivermectin - Risk factor analysis of cases with liver dysfunction -)		日本薬品安全性学会誌	2018	4	1	28	41	14						
ivermectin				Karen L. Goa, Donna McTavish and Stephen P. Clissold	Ivermectin. A Review of Its Antifilarial Activity, Pharmacokinetic Properties and Clinical Efficacy in Onchocerciasis	review	Drugs	1991	42		640	658	19	doi: 10.2165/00003495-199142040-00007		https://link.springer.com/article/10.2165/00003495-199142040-00007	PubMed	https://pubmed.ncbi.nlm.nih.gov/1723366/	
ivermectin				Usha Vaidyanathan	Review of Ivermectin in Scabies	review	Journal of Cutaneous Medicine and Surgery	2001	5	6	496	504	9	doi: 10.1177/120347540100500607		https://journals.sagepub.com/doi/abs/10.1177/120347540100500607	PubMed	https://pubmed.ncbi.nlm.nih.gov/11907859/	
ivermectin				Pascal del Giudice	Ivermectin in Scabies	review	Current Opinion in Infectious Diseases	2002	15	2	123	126	4	DOI: 10.1097/00001432-200204000-00004			PubMed	https://pubmed.ncbi.nlm.nih.gov/11964917/	
ivermectin				Eric A. Ottesen, William Campbell	Ivermectin in human medicine	review	Journal of Antimicrobial Chemotherapy	1994	34	2	195	203	9	doi.org/10.1093/jac/34.2.195		https://doi.org/10.1093/jac/34.2.195			
ivermectin				Satoshi Omura & Andy Crump	The life and times of ivermectin — a success story	review	Nature Reviews Microbiology	2004	2		984	989	6	doi.org/10.1038/nrmicro1048		https://www.nature.com/articles/nrmicro1048			
ivermectin				Virginia D. Schmith, Jie Jessie Zhou, Lauren R. L Lohmer	The Approved Dose of Ivermectin Alone is not the Ideal Dose for the Treatment of COVID-19	full paper	Clinical Pharmacology and Therapeutics	2020			in press			DOI: 10.1002/cpt.1889			PubMed	https://ascpt.onlinelibrary.wiley.com/doi/abs/10.1002/cpt.1889	
many drugs				Arun K.G, Sharanya C.S, Abhithaj J and Sadasivan C	Drug Repurposing to Identify Therapeutics Against COVID 19 with SARS-Cov-2 Spike Glycoprotein and Main Protease as Targets: An in Silico Study			2020					1			https://chemrxiv.org/articles/Drug_Repurposing_to_Identify_Therapeutics_Against_COVID_19_with_SARS-Cov-2_Spike_Glycoprotein_and_Main_Protease_as_Targets_An_in_Silico_Study_14200816	chemRxiv		
many drugs				Giuseppe Mancia, Federico Rea, Monica Ludergnani, Giovanni Apolone, and Giovanni Corrao	Renin–Angiotensin–Aldosterone System Blockers and the Risk of Covid-19		The New England Journal of Medicine	2020			1	10	10	10	DOI: 10.1056/NEJMOa2006923				

many drugs				Rameswari Chilamakuri and Saurabh Agarwal	COVID-19: Characteristics and Therapeutics	Review	Cells	2021	10	2	206		29	org/10.3390/cells10020206	https://doi.org/10.3390/cells10020206			
many drugs				Hye Jin Jeong, Sein Min , Heelim Chae , Sarah Kim, Gunwoo Lee, Sung Keon Namgoong and Keunhong Jeong	Signal amplification by reversible exchange for COVID-19 antiviral drug candidates	Article	Scientific Reports	2020	10	14290			13		http://www.nature.com/scientificreports			
mefloquine				Sue J. Lee, Feiko O. ter Kuile, Ric N. Price, Christine Luxemburger, François Nosten	Adverse effects of mefloquine for the treatment of uncomplicated malaria in Thailand: A pooled analysis of 19,850 individual patients	full paper	PloS ONE	2017	12		e0168780.		16	DOI:10.1371/journal.pone.0168780	https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0168780			
mefloquine				Ashley M Croft and Andrew Herxheimer	Adverse effects of the antimalaria drug, mefloquine: due to primary liver damage with secondary thyroid involvement?	full paper	BMC Public Health	2002	2		Article No. 6	#VALUE!		DOI: 10.1186/1471-2458-2-6	http://www.biomedcentral.com/1471-2458/2/6	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC101408/		
mefloquine				W. P. Hems, W. P. Jackson, P. Nightgale, R. Bryant	Practical Asymmetric Synthesis of (+)-erythro Mefloquine Hydrochloride	full paper	Organic Process Research & Development	2012	16	3	461	463	3	DOI.org/10.1021/op200354f	https://pubs.acs.org/doi/abs/10.1021/op200354f			
mefloquine				F. I. Carroll and J. T. Blackwell	Optical Isomers of Aryl-2-piperidylmethanol Antimalarial Agents. Preparation, Optical Purity, and Absolute Stereochemistry	full paper	Journal of Medicinal Chemistry	1974	17	2	210	219	10	DOI: 10.1021/jm00248a015	https://pubs.acs.org/doi/pdf/10.1021/jm00248a015			
mefloquine				Nina Schutzenmeister, Michael M Iler, Uwe M. Reinscheid, Christian Griesinger, and Andrei Leonov	Trapped in Misbelief for Almost 40 Years: Selective Synthesis of the Four Stereoisomers of Mefloquine	full paper	Chemistry, A European Journal	2013	19		17584	17588		org/10.1002/chem.201303403	https://doi.org/10.1002/chem.201303403			
mefloquine				Jinyue Ding and Dennis G. Hall	Concise Synthesis and Antimalarial Activity of All Four Mefloquine Stereoisomers Using a Highly Enantioselective Catalytic Borylative Alkene Isomerization**	communication	Angewandte Chemie, International Edition	2013	52		8069	8073	5	org/10.1002/anie.201303931	https://doi.org/10.1002/anie.201303931			
mefloquine				Alexandra Dassonville-Klimpt, Christine Cézard, Catherine Mullié, Patrice Agnamey, Alexia Jonet, Sophie Da Nascimento, Mathieu Marchivie, Jean Guillon, and Pascal Sonnet	Absolute Configuration and Antimalarial Activity of erythro-Mefloquine Enantiomers	communication	ChemPlusChem	2013	78		642	646	5	org/10.1002/cplu.201300074	https://chemistry-europe.onlinelibrary.wiley.com/doi/full/10.1002/cplu.201300074			
mefloquine	nefnavir			Shoya Iwanami, Yusuke Ito, Shuetsu Fukushi, Hirofumi Ohashi, Wakana Saso, Tomohiro Tanaka, Shin Aoki, Kouji Kuramochi, Shingo Iwami, Yoshimasa Takahashi, Takashi Suzuki, Masayuki	Mefloquine, a Potent anti-Severe Acute Respiratory Syndrome-related Coronavirus 2 (SARS-CoV-2) drug as an entry inhibitor in vitro	Article	bioRxiv	2020							https://doi.org/10.1101/2020.11.19.389726	https://www.biorxiv.org/content/10.1101/2020.11.19.389726v1		
mefloquine				Inventors/Applicant: Andrew Douglas Baxter, Michael Christ Harris, Stuart Brown	Resolution of Mefloquine with O,O-Di-p-aroxytartaric Acid		World Intellectual Property Organization	International Publication Date 11 June 2004 (17.06.200						International Publication Number: WO 2004/050625 A1				
mefloquine				発明者 アンドリュー ダグラス バクスター、マイケル クリストファー ハリス、スチュアート ブラウン	Resolution of Mefloquine with O,O-Di-p-aroxytartaric Acid		公表特許公報(A)	公表日:平成18年5月18日						特許出願公表番号:特表2006-514938(JP 2006-514938)				
mefloquine				Solange Adams	A Straightforward and High Yielding Synthesis of Mefloquine-II		Tetrahedron	1991	47	36	7609	7614	6		https://www.sciencedirect.com/science/article/pii/S004040201882843	https://www.sciencedirect.com/science/article/pii/S004040201882843?via%3Dihub		
mefuloquine				竹島茂人	マラリア予防薬としてメフロキンを長期投与した際の副作用について		Japanese Journal of Tropical Medicine and Hygiene (日本熱帯医学会)	1994	22	4	185	192	8			J-Stage	https://www.jstage.jst.go.jp/article/tmh/1973/22/4/22_4_185/_pdf	

	methylene blue				G. Lu M. Nagbanshi, N. Goldau, M. Mendes Jorge, P. Meissner, A. Jahn, F. P. Mockenhaupt and O. Müller	Efficacy and safety of methylene blue in the treatment of malaria: a systematic review	review	BMC Medicine	2018	16		59		16	DOI: org/10.1186/s12916-018-1045-3	https://doi.org/10.1186/s12916-018-1045-3		
	nafamostat				Mizuki Yamamoto, Maki Kiso, Yuko Sakai-Tagawa, Kiyoko Iwatsuki-Horimoto, Masaki Imai, Makoto Takeda, Noriko Kinoshita, Norio Ohmagari, Jin Gohda, Kentaro Semba, Zene Matsuda, Yasushi Kawaguchi, Yoshihiro Kawaoka, Jun-ichiro Inoue	The anticoagulant nafamostat potently inhibits SARS-CoV-2 infection in vitro: an existing drug with multiple possible therapeutic effects	full paper								doi.org/10.1101/2020.04.22.054981	https://doi.org/10.1101/2020.04.22.054981	bioRxiv	https://www.biorxiv.org/content/10.1101/2020.04.22.054981v1
	nafamostat				Hidekazu Nishimura and Mutsuo Yamaya	A Synthetic Serine Protease Inhibitor, Nafamostat Mesilate, Is a Drug Potentially Applicable to the Treatment of Ebola Virus Disease	full paper	The Tohoku Journal of Experimental Medicine	2015	237		45	50	6	doi: 10.1620/tjem.237.45	https://www.jstage.jst.go.jp/article/tjem/237/1/237_45/pdf-charija		
	nafamostat				Xi Chen, Zhijie Xu, Shuangshuang Zeng, Xiang Wang, Wanli Liu, Long Qian, Jie Wei, Xue Yang, Qiuying Shen, Zhicheng Gong and Yuanliang Yan	The Molecular Aspect of Antitumor Effects of Protease Inhibitor Nafamostat Mesylate and Its Role in Potential Clinical Applications	review	frontiers in Oncology	2019	9		852	12 pages	doi: 10.3389/fonc.2019.00852	https://www.frontiersin.org/articles/10.3389/fonc.2019.00852/full			
	nefinavir				Blair Jarvis & Diana Faulds	Nefinavir. A Review of Its Therapeutic Efficacy in HIV Infection	review	Drugs	1998	56	1	147	167	21	DOI: 10.2165/00003495-199856010-00013	https://pubmed.ncbi.nlm.nih.gov/9664204/		
	nefinavir				Zhijian Xu, Cheng Peng, Yulong Shi, Zhengdan Zhu, Kaijie Mu, Xiaoyu Wang, Welliang Zhu	Nefinavir was predicted to be a potential inhibitor of 2019-nCoV main protease by an integrative approach combining homology modelling, molecular docking and binding free energy calculation	full paper							1			bioRxiv	https://doi.org/10.1101/2020.01.27.921627
	nefinavir				Vanessa Meier-Stephenson, Justin Riemer, Aru Narendran	The HIV protease inhibitor, nefinavir, as a novel therapeutic approach for the treatment of refractory pediatric leukemia	review	OncoTargets and Therapy	2017	10		2581	2593	13		https://doi.org/10.2147/OTT.S136484		
	nefinavir				Takashi Inaba, Angela G. Birchler, Yasuki Yamada, Shoichi Sagawa, Katsuyuki Yokota, Koji Ando, and Itsuo Uchida	A Practical Synthesis of Nefinavir, an HIV-Protease Inhibitor, Using a Novel Chiral C4 Building Block: (5R,6S)-2,2-Dimethyl-5-hydroxy-1,3-dioxepan-6-ylammonium Acetate	communication	Journal of Organic Chemistry	1998	53		7582	7583	2	10.1021/jo98147zn			
	nefinavir				Noha H. Salama, Edward J. Kelly, Tot Bul Rodney, J. Y. Ho	The Impact of Pharmacologic and Genetic Knockout of P-Glycoprotein on Nefinavir Levels in the Brain and Other Tissues in Mice	full paper	Journal of Pharmaceutical Sciences	2005	94	6	1216	1225	10	org/10.1002/jps.20344	https://www.sciencedirect.com/science/article/pii/S022354916317819		
	nefinavir				Usman Arshad ¹ , Henry Pérezuez, Helen Box, Lee Tatham, Rajith K. R. Rajoli, Paul Curley, Megan Neary, Joanne Sharp, Neill J. Liprott, Anthony Valentijn, Christopher David, Steve P. Barrett	Prioritization of Anti-SARS-CoV-2 Drug Repurposing Opportunities Based on Plasma and Target Site Concentrations Derived from	full paper	Clinical Pharmacology & Therapeutics	2020					16	org/10.1002/cpt.1909	https://ascpt.onlinelibrary.wiley.com/doi/full/10.1002/cpt.1909		
	phenanthridin-6-one				Hiroshi Aoyama, Kazuyuki Sugita, Masahiko Nakamura, Atsushi Aoyama, Mohammed T. A. Salim, Mika Okamoto, Masanori Baba, Yuichi Hashimoto	Fused heterocyclic amido compounds as anti-hepatitis C virus agents	full paper	Bioorganic & Medicinal Chemistry	2011	19	8	2675	2687	13	org/10.1016/j.bmc.2011.03.002	https://doi.org/10.1016/j.bmc.2011.03.002		
	phenanthridin-6-one				Aoyama, A., Aoyama, H., Dodo, K., Makishima, M., Hashimoto, Y. and Miyachi, H.	LXR antagonists with a 5-substituted phenanthridin-6-one skeleton: synthesis and LXR restricted carbamoyl analogs	communication	Heterocycles 76,	2008	76	1	137	142	6	10.3987/COM-07-S(N)7	https://www.heterocycles.jp/newlibrary/libraries/abst/02589		
	phenanthridin-6-one				Yuko Nishiyama, Shuichi Mori, Makoto Makishima, Shinya Fujii, Hiroyuki Kagechika, Yuichi Hashimoto, and Minoru Ishikawa	Novel Nonsteroidal Progesterone Receptor (PR) Antagonists with a Phenanthridinone Skeleton	full paper	ACS Medicinal Chemistry Letters	2018	9	7	641	645	5	DOI: 10.1021/acsmchemlett.8b00058	https://pubs.acs.org/doi/10.1021/acsmchemlett.8b00058	PMC	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6047039/
	rapamycin				Angela Lombardi, Jessica Gambardella, Xue-Liang Du ¹ , Daniela Sorrento, Maurizio Mauro ¹ , Guido Iaccarino, Bruno Trimarco & Gaetano Santull	Sirilimus induces depletion of intracellular calcium stores and mitochondrial dysfunction in pancreatic beta cell	full paper	Scientific Reports			7		15823	9	DOI:10.1038/s41598-017-15283-y		ResearchGate	https://www.researchgate.net/publication/320856258_Sirilimus_induces_depletion_of_intracellular_calcium_stores_and_mitochondrial_dysfunction_in_pancreatic_beta_cells
磯部	rapamycin				Brian Raught, Anne-Claude Gingras, and Nahum Sonenberg	The target of rapamycin (TOR) proteins	Article	Proceedings of the National Academy of Sciences of the United States of America	2001	98	13	7037	7044	7	https://doi.org/10.1073/pnas.121145898			

remdesivir				Yeming Wang, Dingyu Zhang, Guanhua Du, Ronghui Du, Jianping Zhao, Yang Jin, Shouzhi Fu, Ling Gao, Zhenshun Cheng, Qiaofa Lu, Yi Hu, Guangwei Luo, Ke Wang, Yang Lu, Huadong Li, Shuzhen Wang, Shunan Ruan, Chengqing Yang, Chunlin Mei, Yi Wang, Dan Ding, Feng Wu, Xin Tang, Xianzhi Ye, Yimchun Ye, Bing Liu, Jie Yang, Wen Yin, Aili Wang, Guohui Fan, Fei Zhou, Zhibo Liu, Xiaoying Gu, Jiuyang Xu, Lianhan Shang, Yi Zhang, Lianjun Cao, Tingting Guo, Yan Wan, Hong Qin, Yushen Jiang, Thomas	Remdesivir in adults with severe COVID-19: a randomised, double-blind, placebo-controlled, multicentre trial	full paper	The Lancet	2020							10	doi.org/10.1016/S0140-6736(20)31022-9				
remdesivir				Yeming Wang, Dingyu Zhang, Guanhua Du, Ronghui Du, Jianping Zhao, Yang Jin, Shouzhi Fu, Ling Gao, Zhenshun Cheng, Qiaofa Lu Prof Yi Hu, Guangwei Luo, Ke Wang, Yang Lu, Huadong Li, Shuzhen Wang, Shunan Ruan, Chengqing Yang, Chen Wang	<style>.requiresJS { display: none } .dartAd { display: block !important }</style>		The Lancet	2020								doi.org/10.1016/S0140-6736(20)31022-9	https://www.thelancet.com/journals/lanart/article/PIIS0140-6736(20)31022-9/fulltext			
remdesivir				Johns A. Miller, Rodrigo Grois, Carina Conzelmann, Jana Krüger, Uta Merle, Johannes Steinhart, Tatjana Weil, Lennart Koepeke, Caterina Prelli Bozzo, Clarissa Read, Giorgio Fois, Tim Eiseler, Julia Gehrmann, Joanne van Vuuren, Isabel M. Wessbecher, Manfred Frick, Ivan G. Costa, Markus Breunig, Beate Günner, Lynn Peters, Michael Schuster, Stefan Liebau, Thomas Seufferlein, Steffen Stenger, Albrecht Stenzinger, Patrick E. MacDonald, Frank Kirchoff, Konstantin M. J. Sparrer, Paul Walther, Heiko Lickert, Thomas F. E. Barth, Martin	SARS-CoV-2 infects and replicates in cells of the human endocrine and exocrine pancreas	Article	nature metabolism	2021	3		149	165	37				https://doi.org/10.1038/s42255-021-00347-1			
scridine				中村 運	アクリジン化合物の化学と生理作用中	review	化学と生物	1966	4	10	514	526	13				https://www.iistag.e.jst.go.jp/article/kagakutoseibutsu.1962/4/10/4_10_514/article_charita			
tocilizumab				Xiaoling Xu, View ORCID ProfileMingheng Han, Tiantian Li, Wei Sun, View ORCID ProfileDongsheng Wang, Bingqing Fu, Yonggang Zhou, Xiaohu Zheng, View ORCID ProfileYun Yang, Xiyong Li, Xiaohua Zhang, Aijun Pan, and Haiming Wei	Effective treatment of severe COVID-19 patients with tocilizumab	Article	Proceedings of the National Academy of Sciences of the United States of America	2020	117	20	10970	10975	5				https://doi.org/10.1073/pnas.2005615117			
tocilizumab				Dr Nicolas Frey PharmD Dr Susan Grange PhD Dr Thasia Woodworth MD	Population Pharmacokinetic Analysis of Tocilizumab in Patients With Rheumatoid Arthritis	Article	The Journal of Clinical Pharmacology	2013	50	7	754	766	12			https://doi.org/10.1177/009127009350623	https://acp1.onlinelibrary.wiley.com/doi/full/10.1177/009127009350623?casa_token=5LkrSVuRDAAAA%3AIRSy5dIE7MSYm6YMMBG8elrIIJisGDcN2r			
tocilizumab	glucocorticoids			John H. Stone, M.D., M.F., F.R.C.P., F.R.C.P., Tuckwell, Ph.D., Sophie Dimonaco, M.Sc., Micki Kleerman, M.D., Martin Aringer, M.D., Daniel Blockmans, M.D., Ph.D., Elisabeth Brouwer, M.D., Ph.D., Maria C. Cid, M.D., Bhaskar Dasgupta, M.B., B.S., M.D., Juergen Rech, M.D., Carlo Salvetti, M.D., Georg Schett, M.D., et al.	Trial of Tocilizumab in Giant-Cell Arteritis	Article	The NEW ENGLAND JOURNAL of MEDICINE	2017		377	317	328	11	10.1056/NEJMoa1613849			https://www.nejm.org/doi/full/10.1056/NEJMoa1613849			
zinc(II)				Aartjan J. W. te Velthuis, Sjoerd H. E. van den Worm, Amy C. Sims, Ralph S. Baric, Eric J. Snijder, Martijn J. van Hemert	Zn ²⁺ Inhibits Coronavirus and Arterivirus RNA Polymerase Activity In Vitro and Zinc Ionophores Block the Replication of These Viruses in Cell Culture	full paper	PLoS Pathogens	2010	6	11	e1001176		10	doi.org/10.1371/journal.ppat.1001176	https://www.researchgate.net/publication/47794985					