

Recent Advances in Pyrimidine-Based Drugs

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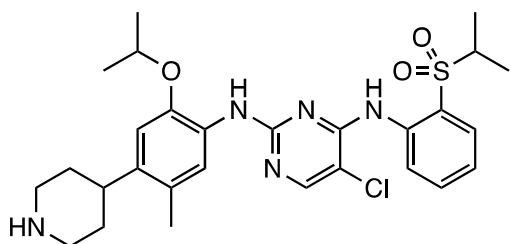
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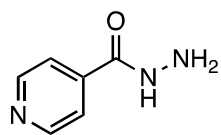
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Comparison compounds mentioned in this article (in order of appearance).

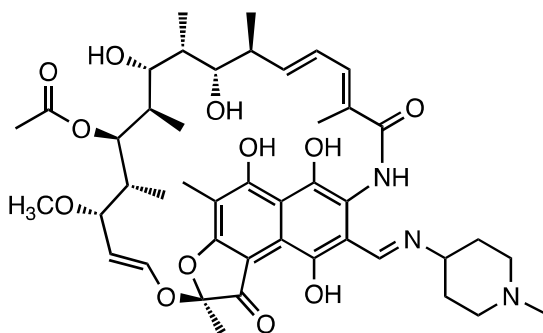
Certinib - antitumor drug for anaplastic lymphoma kinase (ALK)



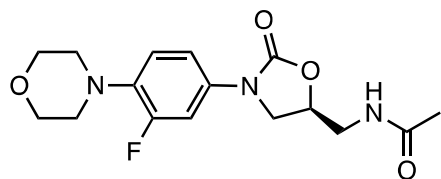
Isoniazid - antibiotic for treating tuberculosis



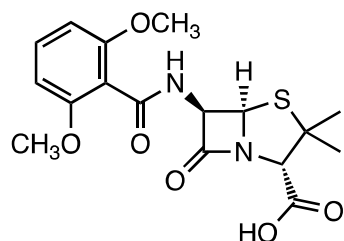
Rifampicin - antibiotic used to treat bacterial infections such as tuberculosis



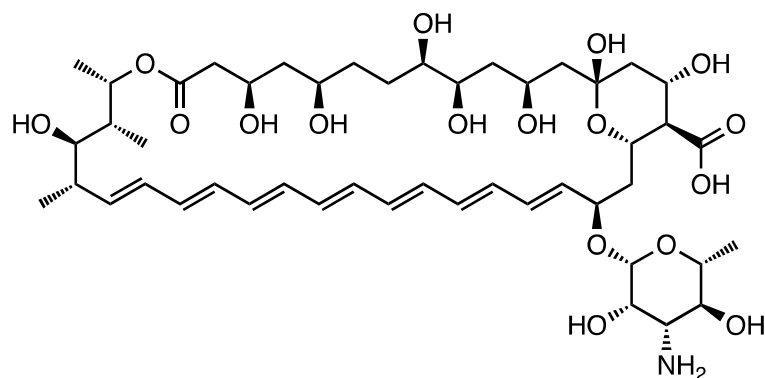
Linezolid - antibiotic used to treat Gram positive infections



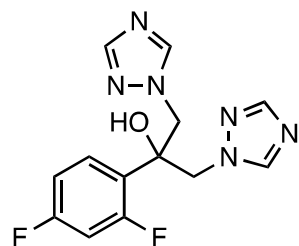
Methicillin - a penicillinase-resistant β -lactam antibiotic related to penicillin



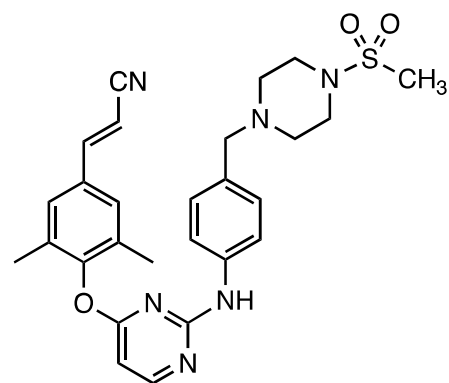
Amphotericin B - an antifungal agent used for fungal infections and leishmaniasis



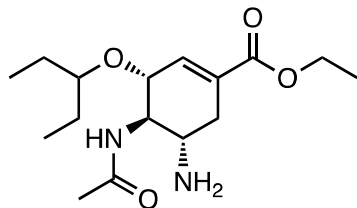
Fluconazole - an antifungal medication



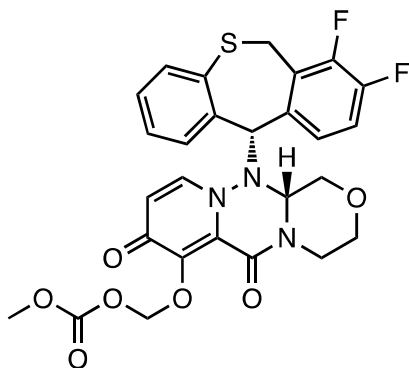
BH-11C - and NNRTI antiviral active against HIV-1



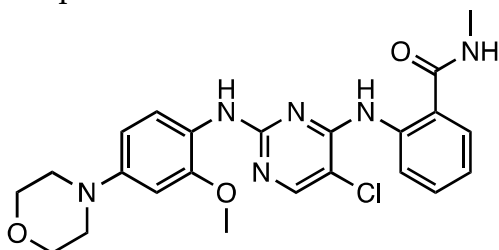
Oseltamivir (Tamiflu®) - an antiviral used to treat influenza A and B



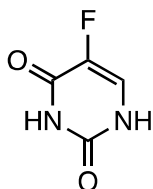
Baloxavir (Xofluza®) - an antiviral used to treat influenza A and B



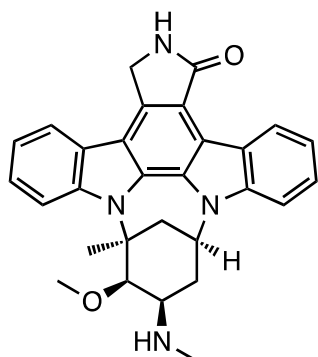
TAE226 - a dual inhibitor of focal adhesion kinase and insulin-like growth factor-I receptor



5-Fluorouracil - a cytotoxic chemotherapy medication used against cancer



Staurosporine - an alkaloid antibiotic from *Streptomyces staurosporeus*; an ATP protein kinase inhibitor

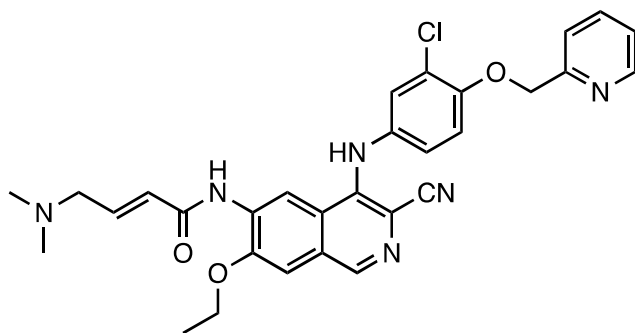


Cetuxiab (Erbitux®) - a recombinant monoclonal antibody; an epidermal growth factor inhibitor medication used to treat metastatic cancers

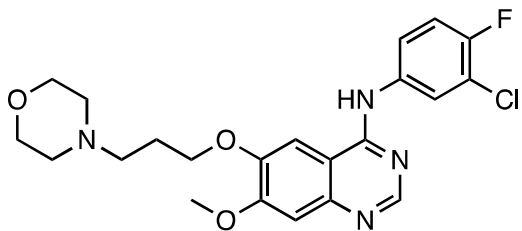
Panitumumab (Vectibix®) - a human monoclonal antibody specific to the EGFR, Erb-1, HER1 receptor in humans

Necitumumab - a recombinant human IgG1 monoclonal antibody used in the treatment of tumors and malignant cells

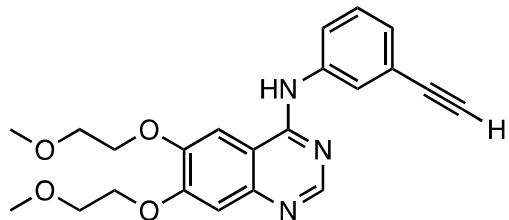
Neratinib (Nerlynx®) - a tyrosine kinase inhibitor used in the treatment of breast cancer



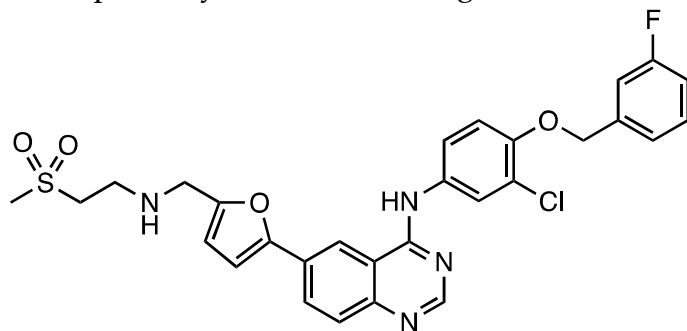
Gefitinib (Iressa®) - therapeutic agent used to treat various breast, lung and other cancers



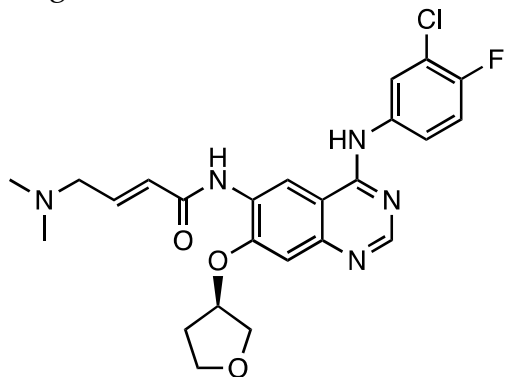
Erlotinib (Tarceva®) - agent used to treat non-small cell lung cancer



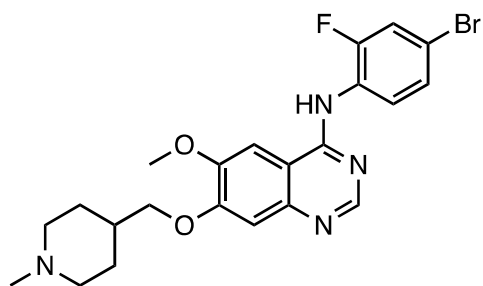
Lapatinib (Tykerb®) - a dual tyrosine kinase inhibitor which interrupts the EGFR and HER2 pathways used for treating breast cancer



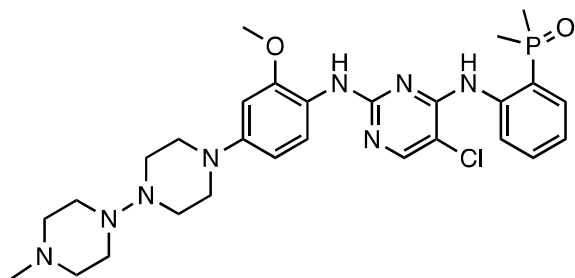
Afatinib (Gilotrif®) - a tyrosine kinase inhibitor medication used to treat non-small cell lung cancer



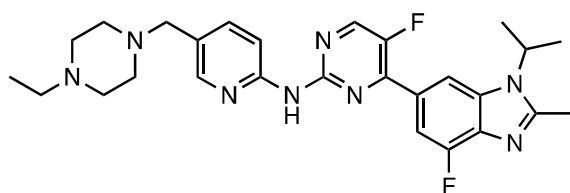
Vandetinib (Caprelsa®) - a medication used to treat thyroid cancer



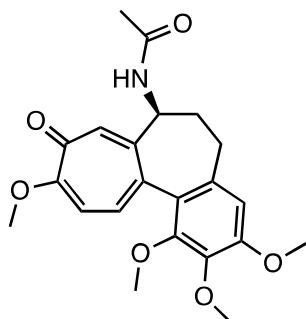
Brigatinib (Alunbrig®) - an anaplastic lymphoma kinase (ALK) and epidermal growth factor receptor (EGFR) inhibitor used to treat cancer



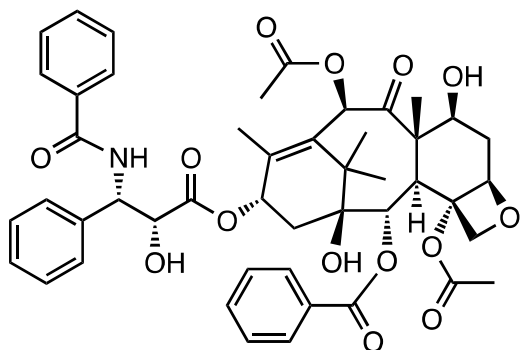
Abemaciclib - a CDK inhibitor medication for treatment of advanced metastatic breast cancers



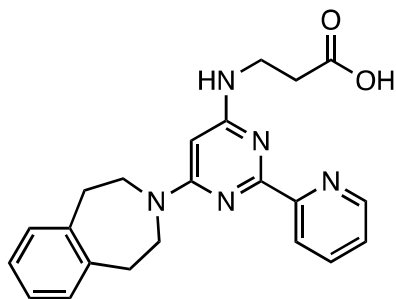
Colchicine - a medication used to treat gout and Behçet's disease (an inflammatory disorder of the eye)



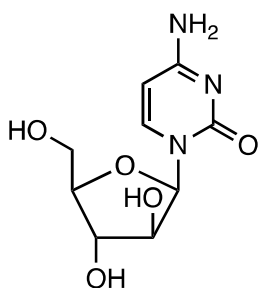
Paclitaxel (Taxol®) - used to treat ovarian, esophageal, breast, lung cervical and pancreatic cancers



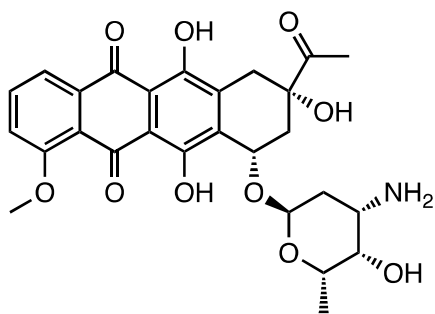
GSK-J1 - an H3K27 histone demethylase inhibitor anticancer agent



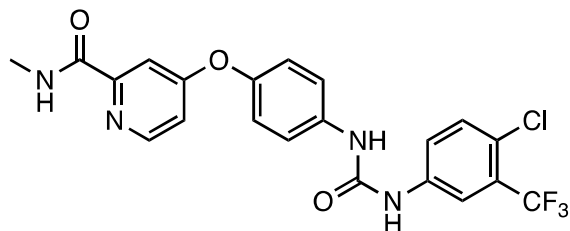
Cytarabine - medication to treat acute myeloid leukemia, chronic myelogenous leukemia and acute lymphoblastic leukemia



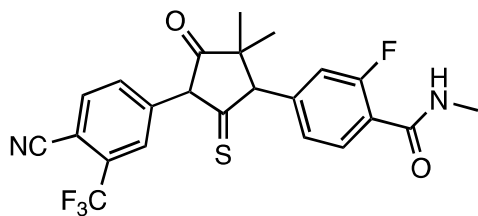
Daunorubicine (aka Daunomycin) - medication to treat acute myeloid leukemia, chronic myelogenous leukemia and acute lymphoblastic leukemia



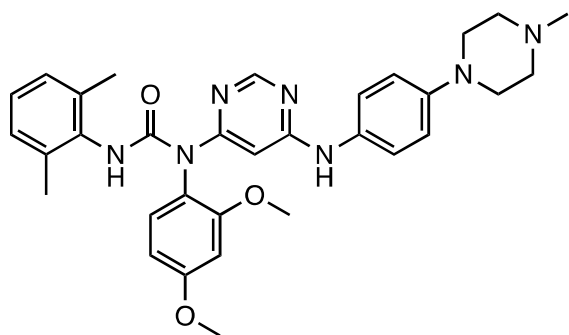
Sorafenib (Nexavar®) - a kinase inhibitor used to treat kidney and liver cancer as well as FMS-like tyrosine kinase 3- internal tandem duplications (FLT3-ITD) positive AML



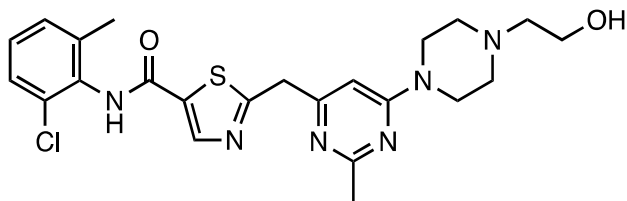
Enzalutamide (Xtandi®) - a non-steroidal antiandrogen used to treat prostate cancer



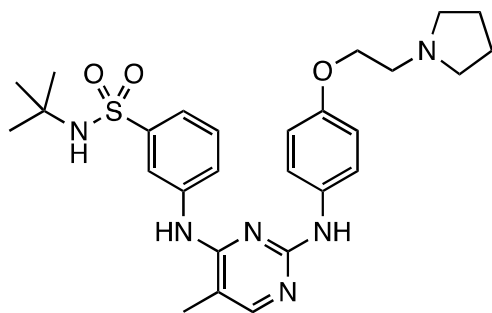
HG-9-91-01 - a pan-SIK inhibitor of necroptosis



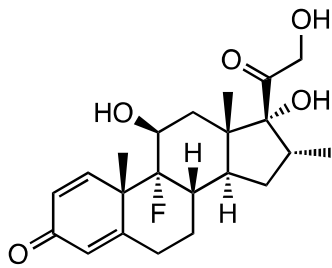
Dasatinib (Sprycel®) - medication to treat chronic myelogenous leukemia and acute lymphoblastic leukemia



Fedratinib (Inrebic®) - an anticancer medication to treat myeloproliferative disease



Dexamethasone - a corticosteroid that prevents the release of substances in the body that cause inflammation



Pioglitazone (Actose®) - an anti-diabetic medication used to treat type 2 diabetes

