

**Agents Available Under CTEP Collaborative Agreements for Clinical and Non-clinical Studies
as of 10/07/2021**

Agent Name	Alternate Name	Pharmaceutical Collaborator	NSC Number	Drug Monitor	Mechanism of Action	Targets	Classes
abemaciclib	LY2835219	Eli Lilly	783671	Piekarz	CDK4/6 inhibitor	CDK4/6	Small Molecule
AMG510		Amgen	825510	Wright	Inhibits G12C-mutated KRAS	mutated KRAS protein	Small Molecule
anetumab ravtansine*	BAY 94-9343	Bayer	791065	Moscow	Anti cell surface glycoprotein mesothelin conjugated to maytansinoid DM4 with potential antineoplastic activity	mesothelin	Antibody-Drug Conjugate; Monoclonal Antibody
APG-1252***	Pelcitoclast	Ascentage	831685	Gore	Inhibits B-cell lymphoma 2 (Bcl-2) and B-cell lymphoma – extra-large (Bcl-xL)	anti-apoptotic Bcl-2 family proteins, including Bcl-2, Bcl-xL, Bcl-w, and Mcl-1	Small Molecule
ASTX727	Combination of cedazuridine and decitabine	Astex Pharmaceuticals	820631	Piekarz	DNA methyltransferase (DNMT) inhibitor	DNA methyltransferase	Small Molecule
Atezolizumab	MPDL3280A	Genentech	783608	Sharon	Targets PD-L1 expressed on tumor and infiltrating immune cells, preventing binding to PD-1 and B7.1	programmed cell death ligand 1 (PD-L1)	Monoclonal Antibody
AZD5363	Capivasertib	AstraZeneca	782347	Said	Inhibits all AKT isoforms	AKT	Small Molecule
AZD6738		AstraZeneca	802785	Gore	Inhibits Ataxia Telangiectasia and Rad3 related (ATR) serine/threonine protein kinase	ATR	Small Molecule
BAY1895344		Bayer	810486	Gore	Inhibitor of ataxia telangiectasia mutated and Rad3-related (ATR) kinase	ATR	Small Molecule
Belinostat	PXD 101	Acrotech Biopharma	726630	Piekarz	Histone deacetylase inhibition	Histone deacetylase	Hydroxamic acid
bevacizumab	rhuMab VEGF	Genentech	704865	Pickett	Binds VEGF to prevent its binding to VEGFR; angiogenesis inhibition	VEGF	Monoclonal Antibody(Humanized)
birinapant	TL32711	IGM Biosciences Inc	756502	Gore	IAP inhibitor	IAP	Small Molecule
blinatumomab	AMG-103, MT-103	Amgen	765986	Sharon	bispecific (BiTE specific) antibody targeting CD19	CD19	Monoclonal Antibody
bortezomib	PS-341	Takeda/Millennium	681239	Wright	26S proteasome inhibition (stabilizes p53, p27; inhibits NF-kB activation; alters cyclin-mediated regulation of cell cycle progression)	Proteasome Inhibitor(Proteasome - Complex)	Small Molecule
brentuximab vedotin	SGN-35	Seattle Genetics	749710	Pickett	An antibody drug conjugate targeting CD30 and using an MMAE payload	CD30	Antibody-Drug Conjugate
CA-4948	Interleukin-1 Receptor-Associated Kinase 4 (IRAK-4) Inhibitor	Curis, Inc.	824184	Pickett	Inhibits TLR and IL-1R signaling; Inhibits myddosome signaling; inhibits NFkB activity	IRAK4 and IRAK4-L	Small Molecule
cabozantinib	XL-184	Exelixis	761968	Wright	c-Met; VEGFR2 inhibition	c-Met; VEGFR2	Small Molecule
cediranib	AZD2171	AstraZeneca	732208	Ivy	Angiogenesis inhibitor, VEGFR1, VEGFR2, VEGFR3, PDGFR alpha and beta, FGFR1	VEGFRs, PDGFRs, FGFR1	Small Molecule
Cobimetinib	RO5514041, GDC0973	Genentech	781257	Wright	Inhibits MAPK signaling pathway	MEK1 and MEK2	Small Molecule
copanlisib	BAY-80-6946	Bayer	784727	Said	Phosphoinositide 3-kinase (PI3K) inhibitor	pan-PI3K, particularly PI3K-alpha, delta	Small Molecule

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dabrafenib mesylate*	GSK2118436B	Novartis	763760	Chen	BRAF inhibition of BRAFV600 mutations	BRAF	Small Molecule
darolutamide	BAY-1841788	Bayer	815949	Wright	A novel nonsteroidal androgen receptor (AR) antagonist	androgen receptor (AR)	Small Molecule
dinutuximab	Ch14.18	United Therapeutics	623408	Moscow	Antibody against GD2	GD2	Monoclonal Antibody (chimeric)
durvalumab	MEDI4736	AstraZeneca/Medimmune	778709	Chen	Check point inhibitor. Antibody against programmed cell death ligand 1 (PD-L1)	PD-L1	Monoclonal Antibody
erdafitinib	JNJ-42756493	Janssen Research and Development	781558	Piekarz	Inhibits signaling of Fibroblast Growth Factor Receptor (FGFR) Subtypes 1-4	FGFR1-4	Small Molecule
eribulin (halichondrin B analog)	E7389	Eisai	707389	Piekarz	Antitubulin agent	Structural Component(Tubulin - Protein)	Small Molecule
ganitumab*	AMG-479	ImmunityBio	750008	Chen	Insulin-like Growth Factor-1 Receptor (IGF-1R) antibody	IGF-1R	Small Molecule
GMI-1271	uproleselan	GlycoMimetics	801708	Gore	Inhibits binding of tumor cells to stroma, potentially inhibiting adherence-mediated chemoresistance.	E-selectin	Antineoplastic, Antithrombotic, Glycolipid, Small Molecule
guadecitabine*	SGI-110	Astex	780463	Piekarz	Inhibits DNA synthesis and DNA methylation. The latter mechanism may lead to re-expression of selected genes	DNMT	Small Molecule
ibrutinib	PCI-32765	Pharmacylics	748645	Ivy	Bruton's Tyrosine Kinase (BTK) inhibitor	BTK	Small Molecule
idUrd Prodrug	IPdR	NCI	726188	Piekarz	Prodrug of iododeoxyuridine	DNA polymerase	Small Molecule
interleukin-12	IL-12	NCI	672423	Streicher	Made mainly by dendritic cells and macrophages. Causes other immune cells to make cytokines and increases the growth of T lymphocytes. It may also block the growth of new blood vessels.	Binds to the IL-12 receptor found on activated T cells Upon binding, IL-12R-β2 provides binding sites for Tyk2 and Jak2, activating STAT4	Pleiotropic Cytokine
interleukin-15	IL-15	NCI	745101	Streicher	Cytokine that regulates T and natural killer cell activation and proliferation. Shares many biological activities with interleukin 2	Activates JAK kinases, and phosphorylation/activation of transcription activators STAT3, STAT5 and STAT6.	Cytokine
ipatasertib	GDC-0068	Genentech	781451	Said	an ATP-competitive AKT inhibitor, blocks the phosphoinositide 3-kinase (PI3K)/AKT pathway	all three isoforms of AKT	small molecule
ipilimumab (transfectoma-derived)	MDX-010	Bristol-Myers Squibb	732442	Streicher	Inhibits the B7/CTLA-4 interaction and down regulates T-cell response	CTLA-4 - Antigen	Monoclonal Antibody
ixazomib	MLN9708	Takeda/Millennium	767907	Wright	An orally bioavailable second generation proteasome inhibitor (PI) with antineoplastic activity	Proteasome	Small Molecule
lenalidomide	CC-5013	Celgene	703813	Streicher	Antiangiogenic; immunomodulatory (stimulates T-cell proliferation, increases interleukin-2 (IL-2), IL-10, interferon-gamma (IFN-g) production; inhibits tumor necrosis factor-alpha (TNF-alpha), IL-1beta, IL-12 and IL-6)	Angiogenesis (VEGF - Unknown), Immune System (T-cell, IL-2, IL-6, IL-10, IL-12, IL-1beta, TNF-alpha, IFN-gamma - Unknown)	Small Molecule

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Lutetium	Lu ¹⁷⁷ Dotatate	Novartis		Wright	Radiopharmaceutical that binds to somatostatin receptor, is internalized and accumulates in lysosomes.	Somatostatin receptor	Radiopharmaceutical
M3814	MSC2490484A	EMD Serono (Merck KGaA)	802447	Gore	DNA-PK inhibition, delay DNA repair of the DSB pathway in solid tumors and hematologic malignancies	DNA-dependent protein kinase (DNA-PK)	Small Molecule
M6620	VX-970	EMD Serono (Merck KGaA)	780162	Gore	Inhibitor of ataxia telangiectasia mutated and Rad3-related (ATR) kinase	ATR	Small Molecule
MEDI-570		AstraZeneca	783606	Moscow	Antagonistic Antibody Against Inducible Co-stimulator (ICOS)	ICOS	Monoclonal Antibody
methoxyamine hydrochloride	TRC-102	Tracon	3801	Gore	Small molecule inhibitor of the DNA Base Excision Repair (BER) pathway	BER	Small Molecule
mogamulizumab	KW-0761	Kyowa Kirin	791064	Sharon	Defucosylated humanized IgG1 mAb against C-C chemokine receptor 4 (CCR4)	C-C chemokine receptor 4	Monoclonal Antibody
nivolumab	BMS-936558	Bristol-Myers Squibb	748726	Streicher	Humanized IgG4 mAb against programmed death 1 receptor (PD-1)	PD-1	Antibody
olaparib	AZD2281	AstraZeneca	747856	Ivy	Polyadenosine 5'diphosphoribose[poly (ADP ribose)] Polymerase (PARP) inhibitor, PARylation inhibitor and PARP trapper, <u>Class II, moderate</u> trapper. Binding prevents PARP-mediated DNA repair of single strand DNA breaks via base-excision repair	PARP	Small Molecule
osimertinib	AZD9291	AstraZeneca	781254	Moscow	3rd generation epidermal growth factor receptor mutation (mEGFR) inhibitor	mEGFR and the dominant acquired T790M resistance mutation	Small Molecule
pembrolizumab	MK-3475	Merck	776864	Sharon	Humanized IgG4 mAb against programmed death 1 receptor (PD-1)	PD-1	Antibody
pevonedistat	TAK-924, MLN4924	Takeda/Millennium	793435	Wright	A small molecule inhibitor of Nedd8 activating enzyme (NAE) with potential antineoplastic activity	Nedd8 activating enzyme	Small Molecule
pomalidomide	CC-4047	Celgene/BMS	767909	Streicher	Angiogenesis inhibitor, vascular endothelial growth factor (VEGF) inhibition	Angiogenesis(VEGF - Protein), Angiogenesis(TNF - Protein)	Small Molecule
radium ²²³	Radium223	Bayer	793433	Wright	alpha particle-emitting radionuclides		Radiopharmaceutical
relatlimab**	BMS-986016	Bristol-Myers Squibb		Streicher	inhibitor of the LAG-3 checkpoint receptor	LAG-3	Monoclonal Antibody
rociletinib*	CO-1686	Clovis Oncology	783605	Moscow	3rd generation mEGFR inhibition	acquired T790M resistance mutation	Small Molecule
savolitinib	AZD6094	AstraZeneca	785348	Wright	specific, small molecule inhibitor of the MET receptor kinase	cMet	Small Molecule
selinexor	XPOVIO	Karyopharm Therapeutics	781780	Gore	Selective Inhibitor of Nuclear Export	nuclear export protein, XPO1	Small Molecule
selumetinib*	AZD6244	AstraZeneca	748727	Wright	MAPK/ERK Kinase (MEK) inhibition	MEK enzyme	Small Molecule
sorafenib tosylate	BAY 43-9006, BAY 54-9085	Bayer	724772	Wright	Raf kinase inhibitor, receptor tyrosine kinase (RTK) inhibitor (VEGFR-2, Flt3, cKIT), PDGFR inhibitor, Ret inhibitor, angiogenesis inhibition	Signal Transduction(Raf kinase, VEGFR2, PDGFR, c-kit - Protein)	Small Molecule(Bi-aryl urea)
sunitinib malate	SU011248, L-malate	Pfizer	736511	Gore	Angionenesis inhibitor: PDGFR alpha/beta, VEGFR 1,2,3, KIT, RET, CSF-1R, FLT3	VEGF2, c-KIT, Flt-3, and PDGFR beta	Small Molecule

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talazoparib	BMN 673 (MDV 38000)	Pfizer	771561	Ivy	Polyadenosine 5'diphosphoribose[poly (ADP ribose)] Polymerase (PARP) inhibitor, PARylation inhibitor and PARP trapper, Class II, strong trapper. Binding prevents PARP-mediated DNA repair of single strand DNA breaks via base-excision repair	PARP 1 and 2 inhibitor	Small Molecule
tazemetostat	EPZ-6438 (clinical) EPZ011989 (pre-clinical)	Epizyme	791066 795999	Piekarz	Small molecule inhibitor of histone methyltransferase EZH2	EZH2	Small Molecule
telaglenastat	CB-839	Calithera	795998	Piekarz	inhibitor of human glutaminase	glutaminase	Small Molecule
thorium ²²⁷	Thorium227	Bayer	840487	Wright	alpha particle-emitting radionuclides		Radiopharmaceutical
Tin-117m-DTPA		Serene		Wright	Radiopharmaceutical that selectively accumulates in bone metastases		Radiopharmaceutical
trametinib*	GSK112021	Novartis	763093	Chen	Potent and highly selective inhibitor of MEK1/2 activation and kinase activity	MEK enzyme	Small Molecule
trastuzumab deruxtecan	DS-8201a	Daiichi Sankyo	807708	Pickett	HER2-targeted antibody-drug conjugate - inhibits topoisomerase I which leads to apoptosis of the target cells	Human Epidermal Growth Factor Receptor 2 (HER2)	Monoclonal Antibody-drug conjugate
TRC-105		Tracon	754227	Gore	monoclonal antibody for CD105	CD105	Monclonal Antibody
triapine		Nanopharmaceutics	663249	Ivy	Ribonucleotide reductase (RR) inhibitor inhibits the metal binding subunit (M2) of RR, which is essential for DNA synthesis and repair.	DNA Synthesis(RR M2 subunit - Enzyme)	Small Molecule
varlilumab	CDX-1127	Celldex	778372	Sharon	fully human monoclonal antibody that targets CD27	CD27 and activates tumor specific T cells	Monoclonal Antibody
veliparib	ABT-888	Abbvie	737664	Ivy	Polyadenosine 5'diphosphoribose[poly (ADP ribose)] Polymerase (PARP) inhibitor, PARylation inhibitor and PARP trapper, Class I, weak trapper. Binding prevents PARP-mediated DNA repair of single strand DNA breaks via base-excision repair	PARP-1 and PARP-2 inhibitor	Small Molecule