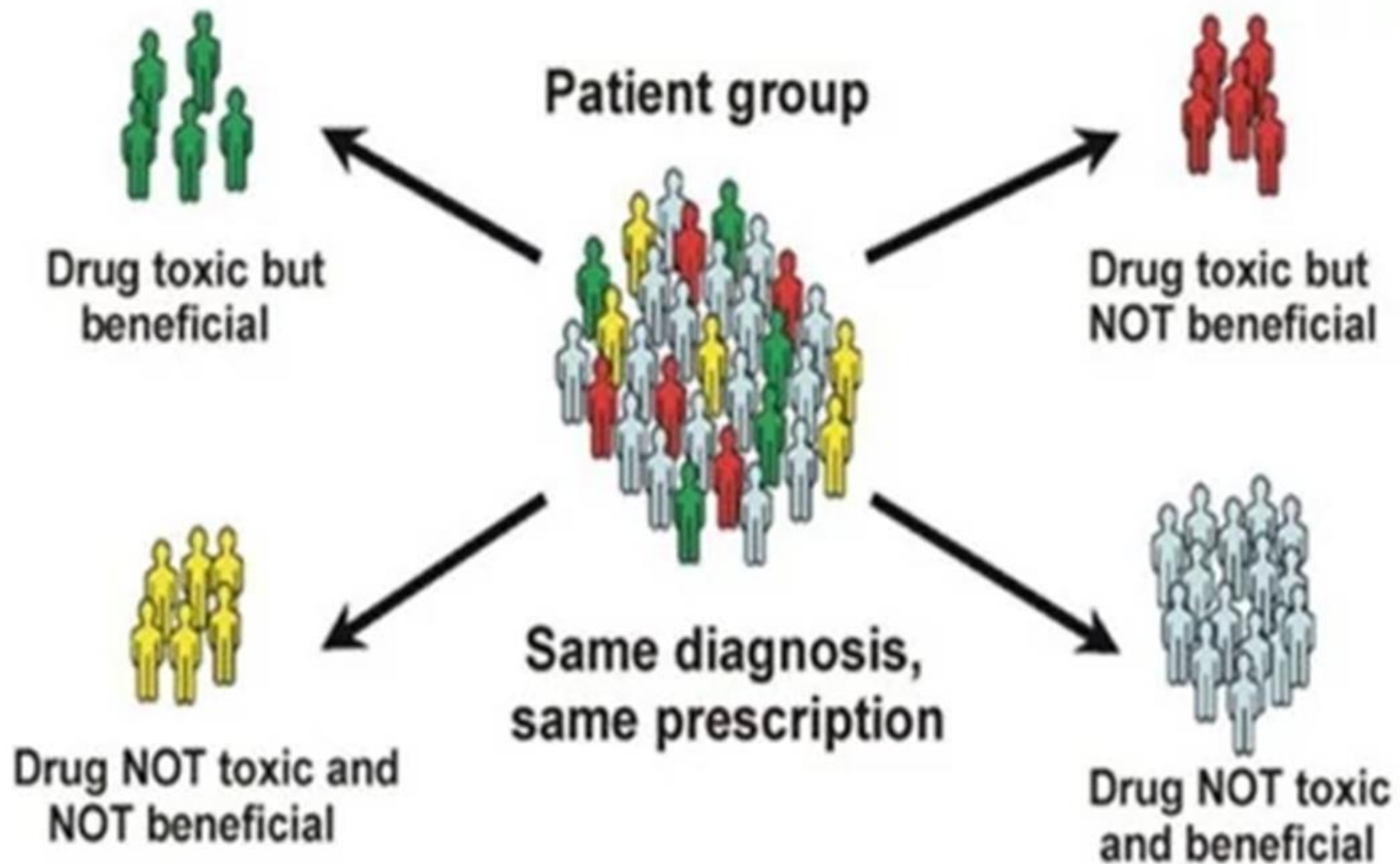
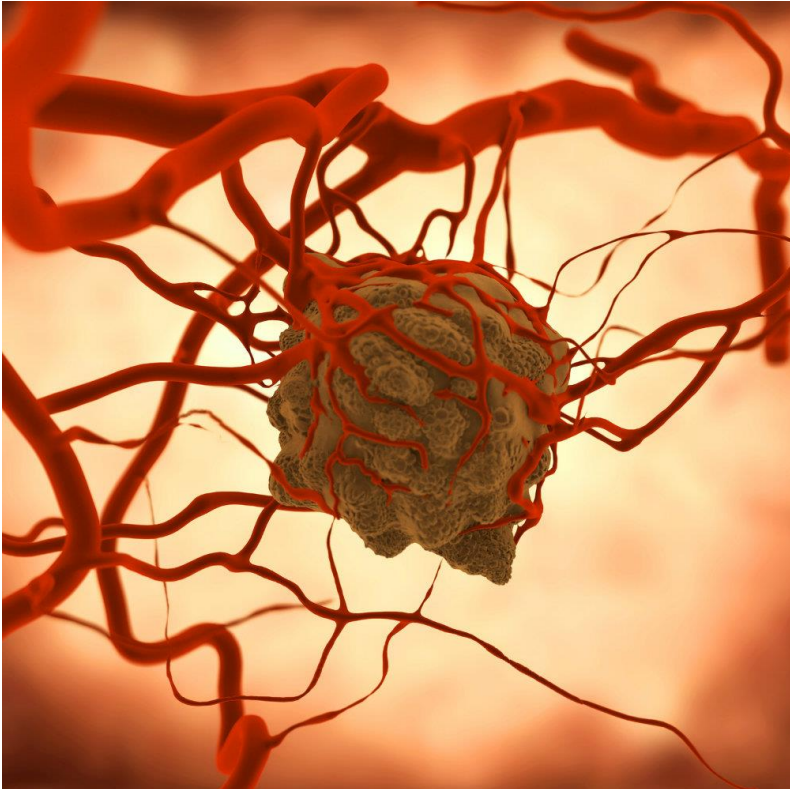
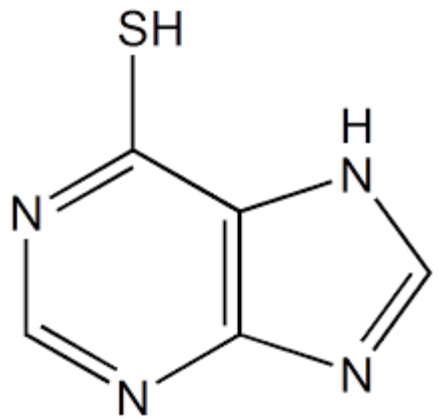


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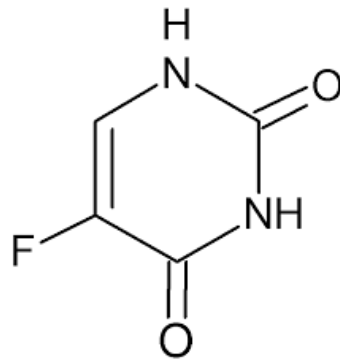
Cancer





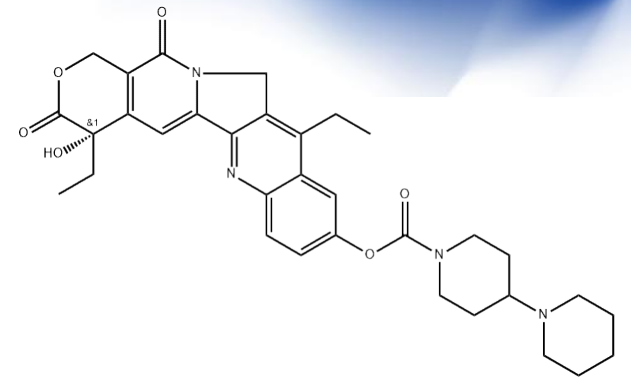
6-mercaptopurine

TPMT



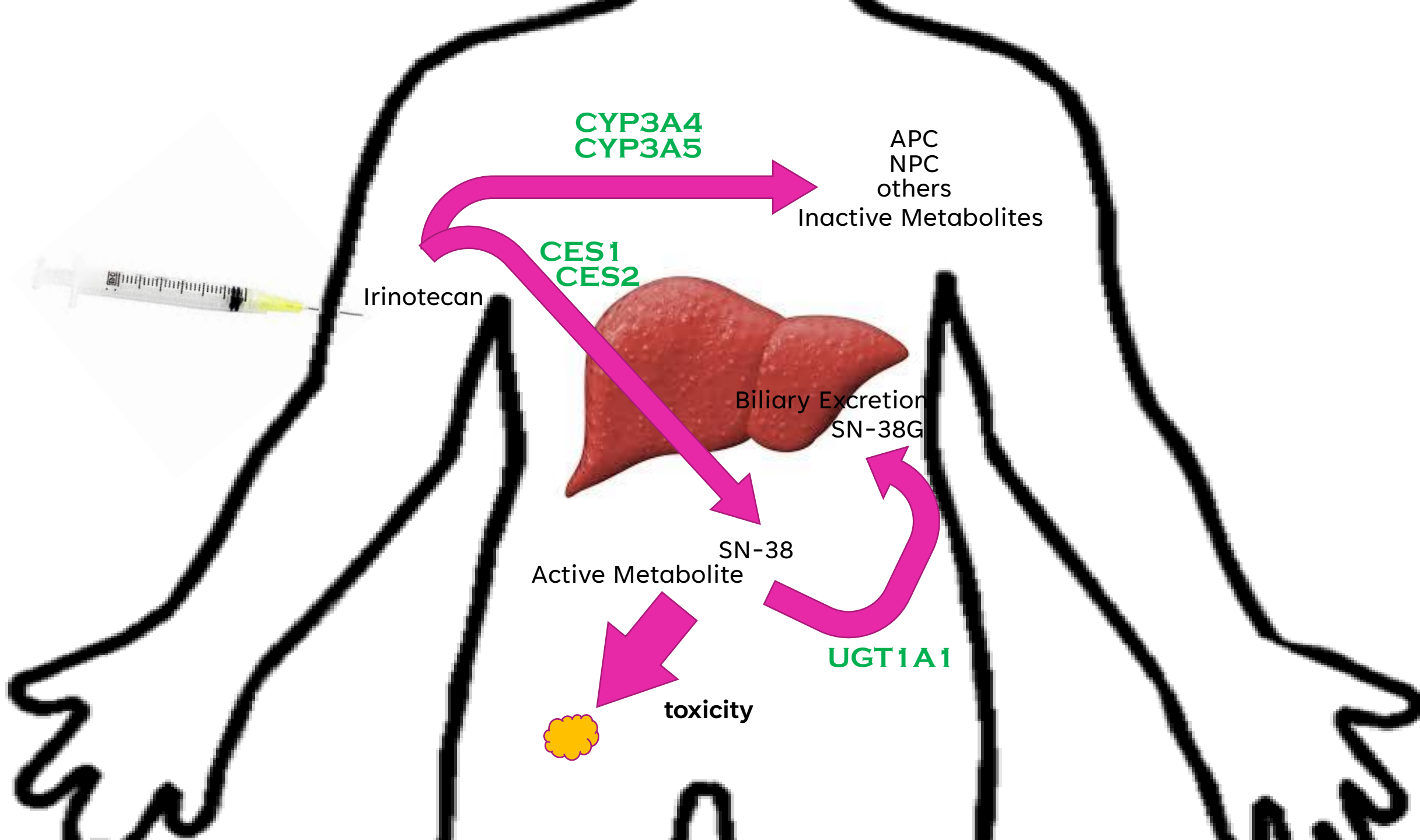
5-fluorouracil

TS
DPD



irinotecan

UGT1A1





Chemotherapy List



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	A	B	C	D	E	F	G	H	I	J	K	L
1		Antimetabolite - 1	Antimetabolite - 2	Antimetabolite - 3	Antimetabolite - 4	Antimetabolite - 5	Antimetabolite - 6	Antimetabolite - 7	Antimetabolite - 8	Antimetabolite - 9	Antimetabolite - 10	Antimetabolite - 11
2	Drug Name	6-Thioguanine	Cladribine	Fludarabine	Clofarabine	Mercaptopurine	Forodesine hydrochloride	Pentostatin	Nelarabine	Hydroxycarbamide	Capecitabine	Doxifluridine
3	Students working on the Compound											
5	Alternate Names	(Brand Name Tioguan)	Leustat	Fludara	Evoltra	Puri-Nethol		Nipent		Hydrea	Xeloda	5_FU
6		Lanvis	LITAK	Fludarabine phosphate		6-mercaptopurine		deoxycoformycin		hydroxyurea		
7			2-chloro-2'-deoxyadenosine			azathiopurine					Apo-capecitabine	
8											fluorouracil, 5-fluor-2'	
12										ribonucleotide reductase		
13		6-thioguanine	adenosine analog	a purine analog	a purine analog	a purine analog	blocks purine synthesis	purine analog	a purine nucleoside analog	inhibits ribonucleotide reductase	5-FU	5_FU
14	Mechanism of action	a guanine analog, an antimetabolite that interferes with DNA and RNA synthesis	a synthetic adenosine analogue that is activated in cells when it is phosphorylated by	fludarabine is converted to the active compound, 2-fluoro-ara-ATP, which inhibits DNA	a purine nucleoside antimetabolite; inhibits DNA synthesis by decreasing cellular	It is a pro-drug that is converted intracellularly. Mercaptopurine is first converted to	a Purine nucleoside phosphorylase (PNP) inhibitor that, when inhibited, means that	It is classified as a purine analog, which is a type of antimetabolite. It mimics the	a synthesized guanosine nucleoside prodrug of ara-G (9-β-D-arabinofuran	decreases the production of deoxyribonucleotide synthesis via inhibition of the enzyme	nucleotide analog (not yet 5 FU) Thought to be converted to 5FU mainly in the tumor	The mechanism of action of fluorouracil (5-FU) and the oral fluoropyrimidines and the importance
15	Primary Tumor Type	acute myeloid leukemia	hairy cell leukemia	chronic lymphocytic leukemia	acute lymphoblastic leukemia	acute myeloid leukemia			hairy cell leukaemia		chronic myeloid leukemia	treats many types of cancer
16		acute lymphoblastic leukemia	chronic lymphocytic leukemia	acute myeloid leukemia		acute lymphoblastic leukemia						
17		chronic myeloid leukemia				chronic myeloid leukemia						
18												





Chemotherapy List



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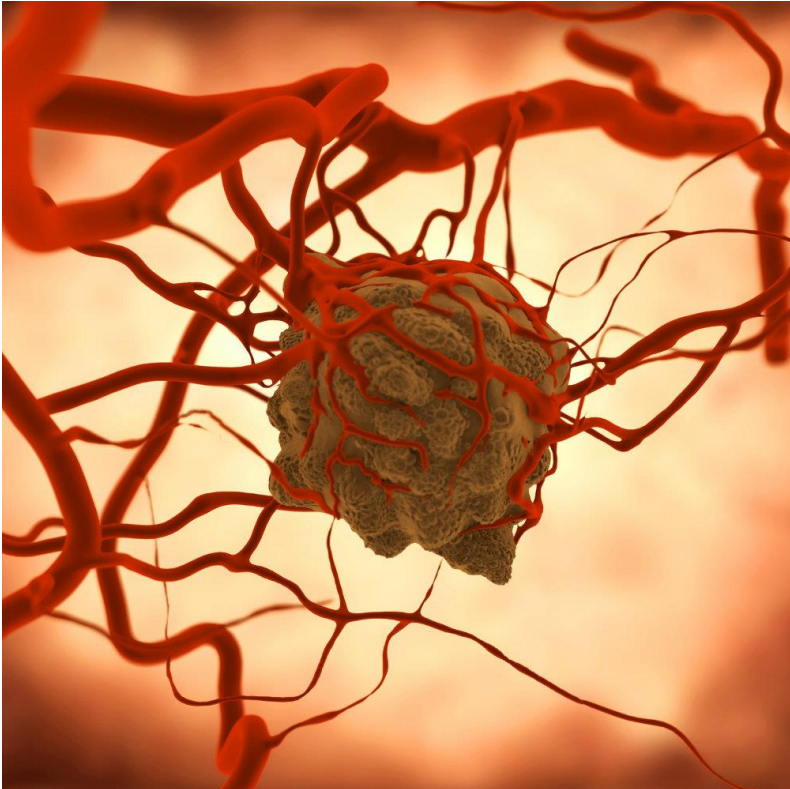
	A	BK	BL	BM	BV	BW	BX	BY	BZ	CA	CB	CC	CD	
1		Arom - 1	Arom - 2	Arom - 3	TKI - BCR-ABL - 1	TKI - BCR-ABL - 2	TKI - BCR-ABL - 3	TKI - BCR-ABL - 4	TKI - BCR-ABL - 5	ATP analog MAPK - 1	ATP analog MAPK - 2	ATP analog MAPK - 3	ATP analog MAPK - 4	
2	Drug Name	Anastrozole	Aromasin	Letrozole	Dasatinib	Ponatinib hydrochloride	Bosutinib hydrate	Nilotinib	Imatinib mesylate	Dabrafenib mesylate	Binimetinib	Trametinib	Encorafenib	Vemurafenib
3	Students working on the Compound	Sydney Achee	Sydney Achee	Sydney Achee	Richard Huynh	Richard Huynh	Richard Huynh	Richard Huynh	Richard Huynh	Brooke Escoe	Brooke Escoe	Brooke Escoe	Brooke Escoe	Brooke Escoe
4														
5	Alternate Names	Arimidex®	Exemestane	Femara®	Sprycel®	Iclusig®	Bosulif®	Nilotinib hydrochloride	Glivec®				Trametinib dime	BRAF TOVI
6								Tasigna®				Mekinist		
7						AP245341								
8						3-(imidazo[1,2-b								
9														
10														
11														
12														
13		Aromatase inhibitor	Aromatase inhibitor	Aromatase inhibitor	TKI - BCR-ABL	TKI BCR-ABL	ATP analog; BCR-ABL	ATP analog BCR-ABL	TKI BCR-ABL	ATP analog MAPK	ATP analog, MEK	ATP analog	RAF kinase inhib	V600E
14	Mechanism of action	Aromatase inhibitor	Aromatase inhibitor	Aromatase inhibitor	ATP-mimic	is especially useful in the treatment of resistant CML because it	ATP analog; inhibits the BCR-ABL kinase that promotes CML; it is also an inhibitor of Src-family kinases	Nilotinib fits into the ATP-binding site of the BCR-ABL protein with higher affinity than imatinib	is a protein-tyrosine kinase inhibitor that inhibits the bcr-abl tyrosine kinase.	a reversible ATP-competitive kinase inhibitor and targets the MAPK pathway	noncompetitive with ATP, binds to and inhibits the activity of MEK1/2	is a highly selective reversible allosteric inhibitor of	acts as an ATP-competitive inhibitor of RAF kinase	involve selecti inhibit the mu BRAF V
15	Primary Tumor Type	estrogen-responsive breast cancer, mostly			specific for BCR-					metastatic melanoma	unresectable me	Anaplastic Thyro	unresectable me	metast
16					works on KIT dep									
17														
18														

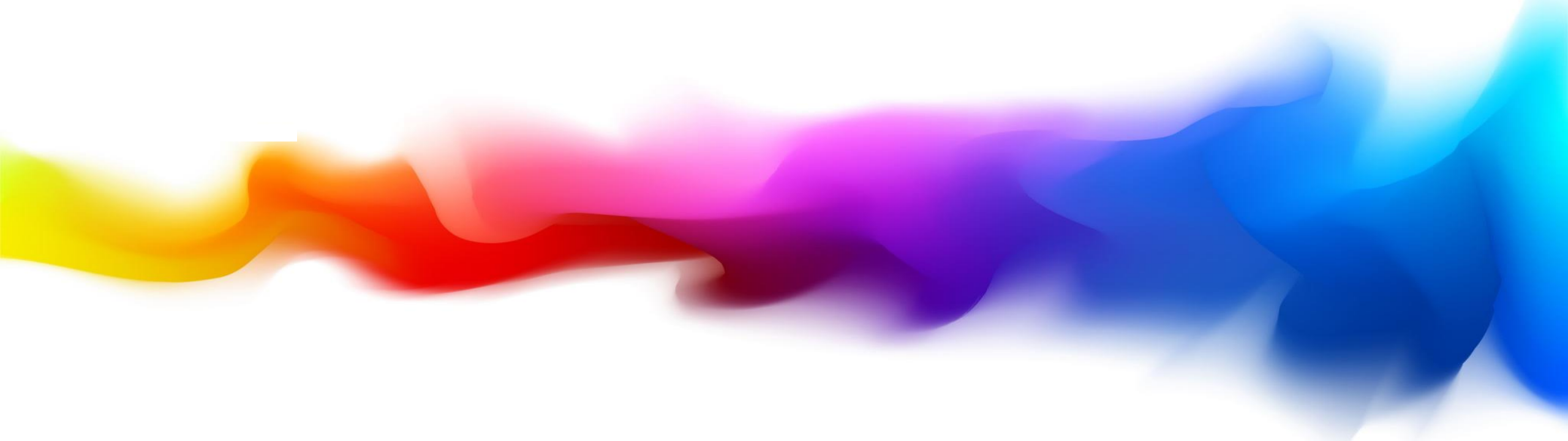


PM →

Enzyme	Thiotepa	Busulfan	Treosulfan
CYP2B6	X		
CYP3A4/5	X		
GSTP1	X		
ABCB1		X	
ABCC1		X	X

Cancer





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