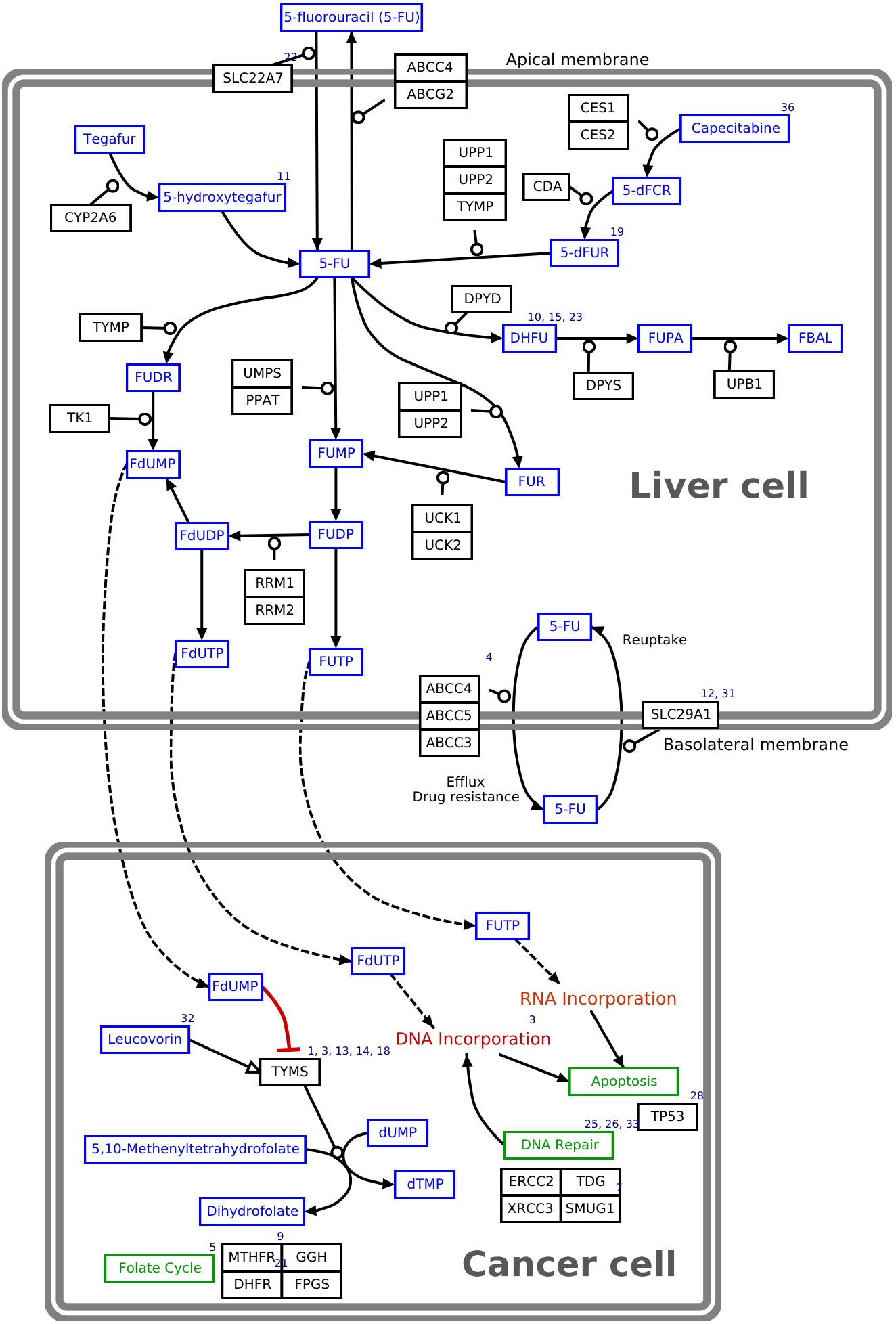
5-fluorouracil (5-FU)
Apical membrane
22
SLC22A7
ABCC4
ABCG2
CES1
CES2
36
Capecitabine
Tegafur
UPP1
UPP2
TYMP
CDA
5-dFCR
11
5-hydroxytegafur
CYP2A6
19
5-dFUR
5-FU
DPYD
TYMP
10, 15, 23
DHFU
FUPA
FBAL
DPYS
UPB1
FUDR
UMPS
PPAT
UPP1
UPP2
TK1
FUMP
FdUMP
FUR
Liver cell
UCK1
UCK2
FdUDP
FUDP
RRM1
RRM2
5-FU
Reuptake
FdUTP
FUTP
4
ABCC4
ABCC5
ABCC3
12, 31
SLC29A1
Basolateral membrane
Efflux
Drug resistance
5-FU
FUTP
FdUTP
FdUMP
RNA Incorporation
3
Leucovorin
DNA Incorporation
1, 3, 13, 14, 18
TYMS
Apoptosis
28
TP53
25, 26, 33
dUMP
5,10-Methenyltetrahydrofolate
DNA Repair
dTMP
ERCC2
TDG
7
XRCC3
SMUG1
Dihydrofolate
9
5
Folate Cycle
MTHFR
GGH
21
DHFR
FPGS
Cancer cell