

Download File PDF Acquired Resistance Of Microorganisms To Chemotherapeutic Drugs

#Jenny



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Cool! I'am really happy

#Markus Jensen



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so many fake sites. this is the first one which worked! Many thanks

Resistance

1. Resistance of cancer chemotherapeutic drugs

- > **Acquired resistance** due to the mutation, decreasing or increasing the expression of one or more specific genes. Reduce intracellular drug concentration or alter the target.
- Alkylating agents: DNA repair ↑, drug influx ↓, binding with GSH ↑
- Antitumor antibiotics, (1) actinomycin D and anthracyclines, P-gp expression ↑, topoisomerase II ↓, P450 ↓; (2) Bleomycin and mitomycin, e-flux ↑, GSH-S-transferase ↑.
- Antimetabolites, (1) methotrexate, DHFR ↑, the affinity to DHFR ↓; influx ↓; (2) 6-thiopurines, HGPRT ↓, de-phosphate ↑, metabolize ↑; (3) 5-Fu, activation ↓, ribonucleotide synthesis ↑, metabolize ↑; (4) Cytarabine, transport ↓, phosphorylase change, dCTP ↑, metabolize ↑.
- Microtubule inhibitors, P-gp ↑
- Hormones, the change of receptor numbers and affinity

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