Supplementary File 1

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| **Class** | **Compound** | **Concentration** | **Specification** | **Citation** |
| **Topoisomerase inhibitors** | camptothecin | 50 µM | TOP1 poison | (1,2) |
| topotecan | 50 µM | TOP1 poison  | (3) |
| doxorubicin | 0.75 µM | TOP2 poison (< 1 µM), DNA intercalation, histone eviction |  (4-6)  |
| aclarubicin | 0.05 µM | inhibition of TOP2 binding to DNA, DNA intercalation, histone eviction | (5,7) |
| etoposide | 50 µM | TOP2 poison  | (8,9)  |
| **RNAP I inhibitors** | actinomycin D | 10 nM | DNA intercalation (preferentially to GC-rich sequences) | (10,11)  |
| BMH-21 | 0.5 µM | Intercalates DNA (preferentially to GC-rich sequences) | (12,13) |
| CX-5461 | 5 µM | block the release of RNAPI pre-initiation complex | (14) |
| **Inhibitors of rRNA processing** | 5-FU | 200 µM | antimetabolite; inhibits pre-rRNA late processing | (15,16) |
| MG-132 | 10 µM | The proteasome inhibitor; inhibits pre-rRNA late processing | (15,17) |
| roscovitine | 20 µM | MAP-kinase inhibitor; inhibits pre-rRNA early processing | (15,18,19) |
| **Replicative stress inducers** | aphidicolin | 0.4 µM | DNA polymerase A, D inhibitor | (20)  |
| hydroxyurea | 100 µM | prevent dNTP accumulation at G1/S and block DNA synthesis | (21) |
| **Others** | oxaliplatin | 10 µM | alkylating agent, DNA cross-linking, in higher concentrations inhibition of RNA and protein synthesis | (22) (23) |
| BrdU | 100 µM | nucleotide analogue; induces DNA damage response radio-sensitization | (24-26) |
| IR | 10 Gy | DNA-damaging treatment |  |
| IFNγ | 5 ng/mL | JAK-STAT pathway activator; induces the expression of PML | (27,28) |

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