

SUPPLEMENTARY TABLE

Supplementary Table 2. The functional gene sets of each drug type from molecular signatures database.

Candidate drug types	Functional gene sets
1. Microtubule inhibitor	<p> BIOCARTA_G2_PATHWAY BIOCARTA_MTOR_PATHWAY BIOCARTA_NFKB_PATHWAY GO_MICROTUBULE GO_MICROTUBULE_BINDING GO_MICROTUBULE_DEPOLYMERIZATION GO_MICROTUBULE_NUCLEATION GO_MICROTUBULE_POLYMERIZATION GO_MICROTUBULE_POLYMERIZATION_OR_DEPOLYMERIZATION GO_REGULATION_OF_MICROTUBULE_POLYMERIZATION_OR_DEPOLYMERIZATION GO_S_ADENOSYLHOMOCYSTEINE_METABOLIC_PROCESS MICROTUBULE MICROTUBULE_BINDING MICROTUBULE_POLYMERIZATION_OR_DEPOLYMERIZATION REACTOME_POST_CHAPERONIN_TUBULIN_FOLDING_PATHWAY REACTOME_FORMATION_OF_TUBULIN_FOLDING_INTERMEDIATES_BY_CCT_TRIC </p>
2. Corticosteroid agonist	<p> GO_CELLULAR_RESPONSE_TO_CORTICOSTEROID_STIMULUS GO_REGULATION_OF_CORTICOSTEROID_HORMONE_SECRETION GO_RESPONSE_TO_CORTICOSTEROID GO_RESPONSE_TO_CORTICOSTERONE </p>
3. Androgen receptor agonist	<p> GO_ANDROGEN_RECEPTOR_BINDING GO_ANDROGEN_RECEPTOR_SIGNALING_PATHWAY GO_NEGATIVE_REGULATION_OF_ANDROGEN_RECEPTOR_SIGNALING_PATHWAY GO_REGULATION_OF_ANDROGEN_RECEPTOR_SIGNALING_PATHWAY GO_TESTOSTERONE_BIOSYNTHETIC_PROCESS </p>
4. Protein synthesis inhibitor	<p> GO_POLYSOME GO_RIBOSOMAL_SMALL_SUBUNIT_BIOGENESIS GO_RIBOSOMAL_LARGE_SUBUNIT_BIOGENESIS GO_RIBOSOME_BIOGENESIS GO_SIGNAL_RECOGNITION_PARTICLE_ENDOPLASMIC_RETICULUM_TARGETING GO_TRNA_CATABOLIC_PROCESS GO_TRNA_METABOLIC_PROCESS GO_EUKARYOTIC_TRANSLATION_INITIATION_FACTOR_3_COMPLEX </p>
5. Cyclooxygenase inhibitor	0
6. Leukotriene receptor antagonist	<p> GO_LEUKOTRIENE_D4_BIOSYNTHETIC_PROCESS </p>
7. Adrenergic receptor antagonist	<p> GO_ALPHA_2A_ADRENERGIC_RECEPTOR_BINDING GO_ADRENERGIC_RECEPTOR_BINDING GO_ADRENERGIC_RECEPTOR_SIGNALING_PATHWAY GO_BETA_2_ADRENERGIC_RECEPTOR_BINDING </p>

