Supplement 1: Details of 19 database tables in GeneMed

Table Names	Function
Patient	Stores patient IDs and basic clinical information
Sample	Stores sample vcf file upload information
Variant	Stores variant information, along with annotation results from snpEff
MOI	Stores aMOI information, with COSMIC ID attached
Homopolymer	Stores homo polymer information
GPD	Stores gene, pathway, drug information
HGMD	Stores HGMD mutation ID and links to PubMed
SIFT	Stores functional prediction results from SIFT run
Patient_seq_summary	Stores mutation summary information submitted by the treatment selection team
TreatmentAssignment	Stores patient treatment assignment information
Biopsy	Stores patient biopsy sample information
Prior_therapy	Stores patient prior systemic therapy information
TreatmentReport	Stores patient treatment report
random_drug_abt	Randomization table for drug ABT888
random_drug_eve	Randomization table for drug everolimus
random_drug_gsk	Randomization table for drug trametinib
random_drug_mk	Randomization table for drug MK-1775
Mysql_log	Stores information for database transaction records
mpactuser	Stores user information and user group information