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| **Supplementary Table S1.** Cell line data comparison across three institutes |
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| **Data type** | **NCI-60 a** | **CCLE b** | **CGP c** |
| Number of CL | 60 | 1036 | 727 |
| Number of drugs | >40,000, 40-60 CL | 24, 307-492 CL | 138, 291-617 CL |
| Gene expression | whole genome | whole genome | whole genome |
| miRNA expression | 422 | 16 | NA |
| aCGH | whole genome | 23,316 genes, 1043 CL | 426 genes, 624 CL |
| DNA methylation | done (in prep) | NA | NA |
| Exome sequencing | whole genome | 1651 genes, 905 CL | 71 genes, 624 CL |
| a The NCI-60 from the Developmental Therapeutics Program, http://dtp.nci.nih.gov/, |
| and http://discover.nci.nih.gov/cellminer/. |  |
| b The Cancer Cell Line Encyclopedia (CCLE) from the Broad Institute,  |
| http://www.broadinstitute.org/software/cprg/?q=node/11. |  |
| c The Cancer Genome Project (CGP) from the Wellcome Trust Sanger Institute,  |
| http://www.sanger.ac.uk/genetics/CGP/cosmic/. |  |
| Abbreviations: aCGH, array comparative genomic hybridization; CL, cell lines; in prep, in preparation; NA, not available. |
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