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Some Practical Considerations and Applications of the National Cancer Institute In Vitro Anticancer Drug Discovery Screen

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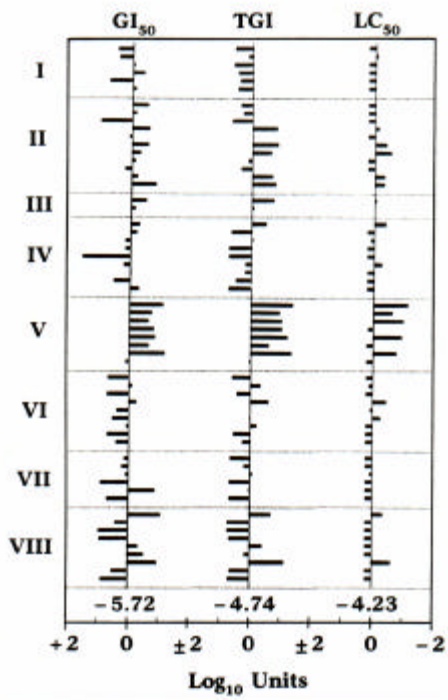

Figure 9: GI_{50}, TGI and LC_{50} mean graphs from the testing of 9-methoxy-2methylellipticinium acetate in the NCI in vitro screen (from Acton et al., 1994, with permission). The tumor cell line subpanels are identified as follows: I (leukemia); II (lung, non small-cell); III (lung, small-cell); IV (colon); V (brain); VI (melanoma); VII (ovary); VIII (kidney). An alphanumeric data reporting format which fully describes the data encompassed in the mean-graphs is exemplified as follows (e.g., from Acton et al., 1994). The subpanel and individual cell line identifiers are given, along with the corresponding negative log_{10} GI_{50}, TGI and LC_{50} values, respectively. [I]: CCRF-CEM (5.22,4.15,>4.0), HL-60 TB (5.28,4.59, 4.28), K-562 (5.77, 4.11,>4.00), MOLT-4 (6.10, 4.26, >4.00), RPMI-8226 (4.96, 4.32,>4.00), SR (5.82, 4.24,>4.00); [II]: A549/ATCC (6.25, 4.35,>4.00), EKVX (5.85,4.43,>4.00), HOP-18 (4.70, 4.07,>4.00), HOP-62 t6.29, 5.57, 4.36), HOP-92 (5.64,4.77,>4.00), NCI-H226 (6.26, 5.60,4.62), NCI-H23 (6.00, 5.38, 4.77), NCI-H322M (5.82, 4.60,>4.00), NCI-H460 (5.51, 4.38,>4.00), NCI-H522 (5.92, 5.42, 4.55), LXFL 529 (6.54, 5.52,4.55); [III]: DMS 114 (6.22. 5.48, 4.28). DMS 273 (5.85, 4.82, 4.21); [IV]: COLO 205 (6.00, 5.24,4.62), DLD-1 (5.92,4.08, >4.00), HCC-2998 (5.55, 4.80, 4.11), HCT-116 (5.55,>4.00, >4.00), HCT-15 (4.15,>4.00,>4.00), HT29 (5.51, 4.55, 4.49), KM12 (5.74,4.54,4.01), KM20L2 (5.17,4.24, >4.00), SW-620 (6.00,>4.00,>4.00); [V]: SF-268 (6.82,6.13, 5.36), SF-295 (6.44, 5.70,4.85), SF-539 (6.35, 5.77, 5.22), SNB-19 (6.52, 5.77,4.06), SNB-75 (6.57, 5.96, 5.17), SNB-78 (6.36, 5.35,>4.00), U251 (6.89, 6.09, 5.00), XF498 (5.60, 4.70,>4.00); [VI]: LXOX IMVI (5.02, 4.14, >4.00), MALME-3M (5.82, 5.09,4.10), M14 (5.00,4.30,>4.00), M19-MEL (5.96, 5.35, 4.68), SK-MEL-2 (5.32, 4.74, 4.14), SK-MEL-28 (5.18,4.72,4.49), SK-MEL-5 (5.64,4.96,>4.00), UACC-257 (5.00, 4.19, >4.00), UACC-62 (5.30,4.48,>4.00); [VII]: IGROV1 (5.57, 4.09,>4.00), OVCAR-3 (5.49, 4.54,>4.00), OVCAR-4 (5.62,4.82,4.15), OVCAR-5 (4.80, 4.07, >4.00), OVCAR-8 (6.60, 4.70, >4.00), SK-OV-3 (5.01, 4.07, >4.00); [VIII]: 786-0 (6.80, 5.46, 4.59), A498 (5.28, >4.00, >4.00), ACHN (4.74,>4.00,>4.00), CAKI-1 (4.77, 4.07, >4.00), RXF-393 (6.06, 5.17, >4.00), RXF-631 (6.24, 4.57,>4.00), SN12C (6.68, 5.89, 4.85), TK-10 (5.17, 4.09,>4.00), UO-31 (4.82, 4.02, >4.00).