



**Virtual karyotype of chronic lymphocytic leukemia obtained using a 10K Affymetrix mapping array.** The standard FISH panel for CLL consists of probes for MYB (6q22-q23), ATM (11q22.3), the centromere of chromosome 12, 13q14.3, IgH (14q32.3), and p53 (17p13.1). Lesions at these loci have established prognostic significance, and newer literature is establishing correlation of specific genetic lesions with response to targeted therapies. The virtual karyotype for this patient's tumor shows a loss of ATM, trisomy 12, and deletion of 13q14.3, which indicates tumor progression.