

Myeloma by the Combination of Karyotype Analysis, FISH and CGH

Barbara Busert¹, Gesa Schwanitz¹, Regine Schubert¹, Ulrike Gamerdinger² and Ingo G.H Schmidt-Wolf³

Institute of Human Genetics, University of Bonn, Germany
Institute of Pathology, University of Giessen, Germany
Department of Internal Medicine III, University of Bonn, Germany

KEYWORDS Multiple Myeloma. Phenotype-Karyotype Correlation. Plasma Cells. MACS/DOP-PCR. FISH-CGH

ABSTRACT Cytogenetic and molecular cytogenetic investigations from bone marrow samples were performed in 83 patients with multiple myeloma. Karyotype analyses were made after cultivation with and without growth factors. The polyploidy level ranged from 3n to 6n. For each patient the composite karyotype was delineated. The number of abnormalities per aberrant cell was in a range from 1 to 17 (x =3,7). The comparison of CGH and FISH results showed an accordance of 92%. In total, 57% of cells showed chromosomal aberrations.