

Contents

Relationship of HP1 proteins to centromeric heterochromatin characterized by the presence of H3(K9) and absence of H3(K4) dimethylation <i>E. Bártová, A. Harničarová, J. Pacherník, G. Galiová, S. Kozubek</i>	1
Colocalization of PML bodies and PML/RARα microspeckles with up- and down-regulated loci and changes of chromatin structure in APL leukemia cells <i>M. Falk, E. Lukášová, M. Faretník, I. Dellino, S. Kozubek, G.I. Pellici, M. Kozubek, M. Rochi</i>	8
Different nuclear localization of aberrant and normal chromosome 8 homologues in intact or NaBr differentiated HT-29 cells <i>A. Harničarová, E. Bártová, S. Kozubek</i>	24
Gene expression in colorectal carcinoma determined by cDNA microarrays using a combination of several evaluation approaches. <i>E. Jansová, P. Krontorád, Z. Svoboda, I. Koutná, T. Pavlik, M. Kozubek M. Jarošová, J. Žaloudík, S. Kozubek</i>	29
DNA microarray analysis and clustering of genes of granulocyte and monocyte HL-60 cells differentiation with similar behaviour of time dependent changing of level of expression <i>I. Koutná, E. Faltýsková, P. Krontorád, Z. Svoboda, T. Pavlik, E. Bártová, M. Kozubek, S. Kozubek</i>	38
Automated image analysis in fluorescence microscopy: From isolated cells to tissues and microarray images <i>M. Kozubek, P. Matula, P. Matula, D. Svoboda, J. Hubený, P. Krontorád</i>	44
From Jenalumar to Ultrafast Microscopy of Living Cells <i>S. Kozubek, M. Kozubek</i>	47
Methylation of histone H3K9 in human blood cells and in granulocytes of patients with myeloid leukemia <i>E. Lukášová, M. Falk, Z. Koristek, S. Kozubek, S. Grigoryev, M. Kozubek, V. Ondřej, I. Kroupová</i>	53
Rapid Image Acquisition of Living Cells and its Limits <i>P. Matula, M. Kozubek, S. Kozubek, V. Ondřej</i>	58
Image analysis of the movement of sub-cellular structures <i>P. Matula, V. Ondřej, S. Kozubek</i>	62
Dynamics of HP1 transgene loci movement and silencing in living cells <i>V. Ondřej, S. Kozubek, E. Lukášová, P. Matula, P. Matula, M. Kozubek</i>	66
Cytological study of DNA methylation and histone methylation patterns in human cell lines <i>M. Skalníková, E. Bártová, S. Kozubek, M. Kozubek</i>	72
In vivo imaging of cell interior using automated high-resolution cytometry <i>M. Vařechá, J. Amrichová, V. Ondřej, E. Lukášová, S. Kozubek, P. Matula, P. Matula, M. Kozubek</i>	76