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Back Matter

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About the Cover

Normal cell structures are illustrated on the front cover. In contrast, rapidly dividing, metastasizing cancer cells are depicted on the back cover. Normal cell transcription is emphasized on the front cover. Transcription factors melt the DNA double helix, while a DNA-dependent RNA-polymerase synthesizes RNA. These mRNA’s encode structural proteins and maintenance enzymes. Cell division is held in check by tumor suppressor genes (oncogenes) such as p53 and Rb. Other illustrated features of the healthy cell are the nucleolus, mitochondria, cytoskeleton, the nuclear matrix, the porous nuclear membrane, the golgi, ribosomes, and the outer cellular membrane. The back cover shows metastasizing cancerous cells, which differ from the normal cell by their strikingly ruffled surfaces. Autocrine TGFα stimulation of the EGF receptor is shown adjacent to the neu protein, with both transversing a lipid bilayer cell membrane. Malignant cells are brightly illuminated by laser excited phycoerythrin antibody conjugates. Oncogene Science’s extensive line of antibody products are represented by the antibody forms that float above the cells. Important genes and proteins such as p53, neu, rag, jun, fos, and cell cycle proteins can be identified and studied using these products. Our 400+ probes and complementary molecular biology products are depicted by the white star burst at the end of the DNA strand.

Cover art courtesy of Oncogene Science, Inc.