



# **EGF Receptor in Tumor Growth and Progression (Ernst Schering Foundation Symposium Proceedings)**

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The last 15 years have brought an understanding of growth and differentiation at the molecular level, expanding our knowledge of the origin and progression of cancer. Early breakthroughs defining growth control pathways came via studies of oncogenes, mutated signaling molecules that have lost the capacity to turn off their proliferative signal. Oncogenes with diverse growth-promoting activities have been discovered, covering the gamut from cell surface to nuclear signaling. Sequencing of these oncogenes revealed that they were mutated forms of captured cellular genes and displayed tyrosine kinase activity. The epidermal growth factor (EGF) receptor was the first of 40-50 transmembrane tyrosine kinase receptors to be cloned and sequenced. Beyond cell proliferation, activation of EGF receptor by its specific ligands controls important physiological processes, such as cell differentiation, apoptosis, cell migration, and cell shape. Activation of autocrine growth loops, consisting in solid human tumors of upregulated expression of EGFR together with increased production of ligands suggested its crucial role in autonomous tumor growth.

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