

Chemistry and Molecular Biology Department
and NIH Center for Protease Research
Candidate Seminar
December 18, 2007
11:00 am in Dunbar 152

“Positive feedback regulation of MYCN by CRABP-II In Neuroblastoma”

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Abstract

Neuroblastoma is a childhood disease and is associated with MycN oncogene amplification and poor clinical outcome. MycN is a transcription factor that regulates the expression of a number of proteins thereby affecting affect the clinical behavior of neuroblastoma. We have identified cellular retinoic acid-binding protein II (CRABP-II) as a novel MycN target, expressed at significantly higher levels in primary neuroblastoma tumors with MycN oncogene amplification compared to non-MycN-amplified tumors. The mechanism by which CRABP-II expression is regulated in neuroblastoma and its role in pathogenesis of the disease will be discussed.