

**SYLLABUS: CURRENT TOPICS IN BIOCHEMISTRY. BIOC-48100
SPRING 2008**

<u>Date</u>	<u>Topic and Reading Assignment</u>
Jan 22	General introduction to cancer
Jan 24	“continued”
Jan 29	Baylin, S.B. and Ohm, J.E. (2006). “Epigenetic gene silencing in cancer--a mechanism for early oncogenic pathway addiction.” <i>Nature Rev. Cancer</i> , 6 : 107-116. AND Weinstein, I.B. (2002). “Addiction to oncogenes--the Achilles heel of cancer.” <i>Science</i> , 297 : 63-64
Jan 31	Knudsen, E.S. and Knudsen, K.E. (2006). “Retinoblastoma tumor suppressor: where cancer meets the cell cycle.” <i>Exp. Bio. Med.</i> , 231 : 1271-1281.
Feb 5	Toledo, F. and Wahl, G.M. (2006). “Regulating the p53 pathway: <i>in vitro</i> hypothesis, <i>in vivo</i> veritas.” <i>Nat. Rev. Cancer</i> , 6 : 909-920
Feb 7	Rosen, E.M. Fan, S. and Ma, Y. (2006). “BRCA1 regulation of transcription.” <i>Cancer Lett.</i> , 236 : 175-185
Feb 12	Taniguchi, T. and D’Andrea, A.D. (2006). Molecular pathogenesis of Fanconi anemia: recent progress.” <i>Blood</i> , 107 : 4223-4232.
Feb 14	Student 1: Zhu, J.H. et al. (2007). “Protein tyrosine phosphatase PTPN13 negatively regulates Her2/ErbB2 malignant signaling.” <i>Oncogene</i> [epub ahead of print], 1-7. Student 2: Jiao et al. (2006). “Nucleocytoplasmic shuttling of the retinoblastoma tumor suppressor protein via Cdk phosphorylation-dependent nuclear export.” <i>J. Biol. Chem.</i> 281 : 38098-38107.
Feb 19	Student 3: Zawacka-Pankau et al. (2007). “Protoporphyrin IX interacts with wild type p53 protein <i>in vitro</i> and induces cell death of human colon cancer cells in a p53-dependent and independent manner.” <i>J. Biol. Chem.</i> , 282 : 2466-2472. Student 4: Hong, S. et al. (2008). <i>In vivo</i> reprogramming of hTERT by <i>trans</i> -splicing Ribozyme to target tumor cells. <i>Molecular Therapy</i> , <i>in press</i> .
Feb 21	Student 5: Li et al. (2006). “Suppression of colorectal tumor growth by regulated survivin targeting.” <i>J. Mol. Med.</i> , 84 : 1077-1086. Student 6: Xia, C. et al. (2007). Reactive Oxygen Species Regulate angiogenesis and tumor growth through vascular endothelial growth factor. <i>Cancer Res.</i> , 67 : 10823-10830.

