

Anmeldung
Reception

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Anmeldungs
Reception





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o~~logy~~ and Toxicology (SSPT)

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The effect of CD44 ligation on granulocyte cell death ^{U⁵}

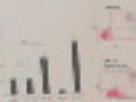
Dimitra Mihalaki, Silvana Della, Sotia Pournaras, Maria Tsatsas

Department of Pathology, University of Athens, Greece

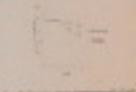
Abstract

CD44 is a transmembrane glycoprotein involved in adhesion and migration. It is implicated in triggering apoptosis in various cell types. CD44 has been shown to bind to various molecules, including integrins, laminins, heparan sulphate proteoglycans, and hyaluronic acid. In addition, family members of CD44, heparan sulphate proteoglycans and laminins, bind closely to each other. These proteins are known to induce apoptosis in different cell types. The CD44 molecule is also involved in the regulation of cell cycle. CD44 is expressed in various cell types and it is known that it promotes cell proliferation. CD44 ligands, such as hyaluronic acid, are known to promote cell proliferation by activating tyrosine kinases.

HL-60 cells expressing wild type CD44 ligand were treated with GM-CSF and TNF- α for 24 hours. Cells were harvested and analyzed for apoptosis by flow cytometry.



HL-60 cells expressing mutant CD44 ligand were treated with GM-CSF and TNF- α for 24 hours. Cells were harvested and analyzed for apoptosis by flow cytometry.



Results

HL-60 cells expressing wild type CD44 ligand were treated with GM-CSF and TNF- α for 24 hours. Cells were harvested and analyzed for apoptosis by flow cytometry.



Figure 1: CD44 ligand expression induces apoptosis in HL-60 cells. HL-60 cells expressing wild type CD44 ligand were treated with GM-CSF and TNF- α for 24 hours. Cells were harvested and analyzed for apoptosis by flow cytometry. Untreated cells show low apoptosis (~10%), while GM-CSF and GM-CSF + TNF- α treated cells show significantly increased apoptosis (~25% and ~35% respectively).

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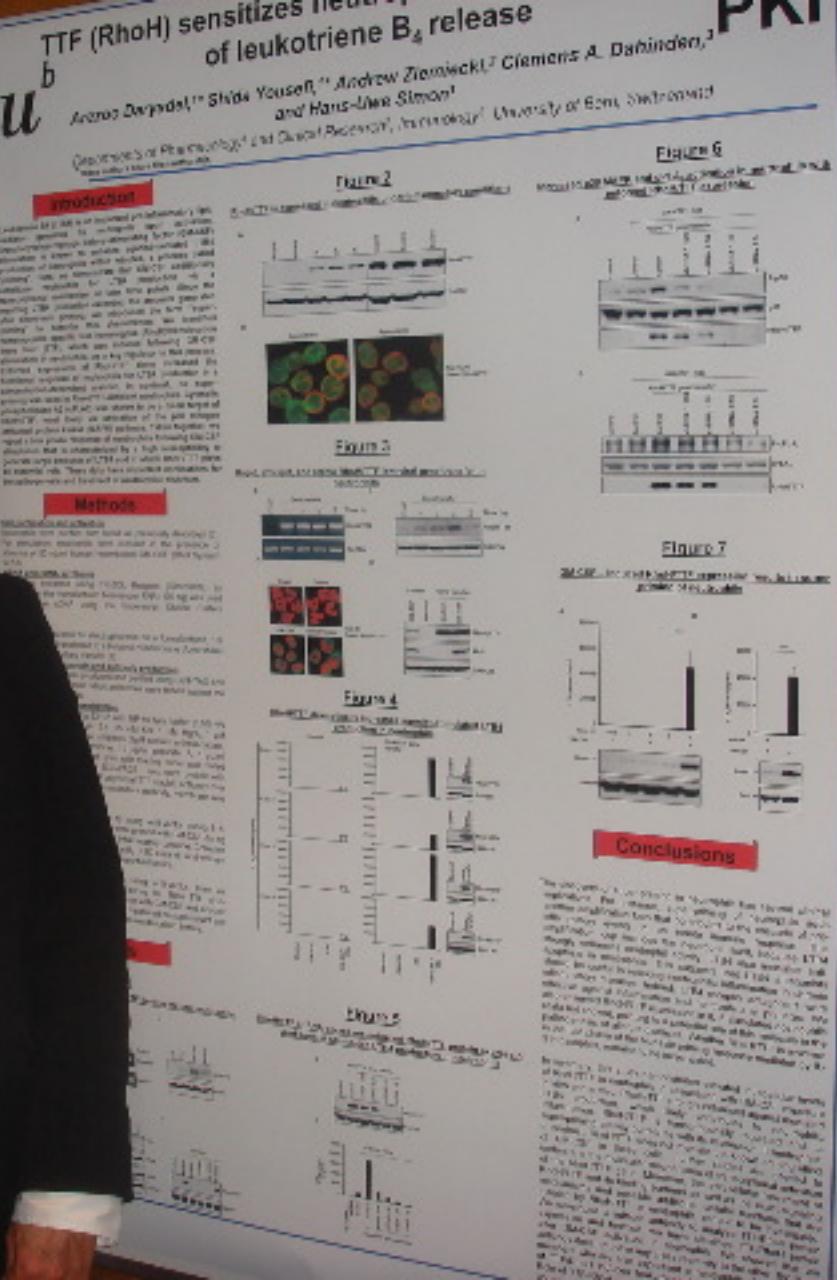
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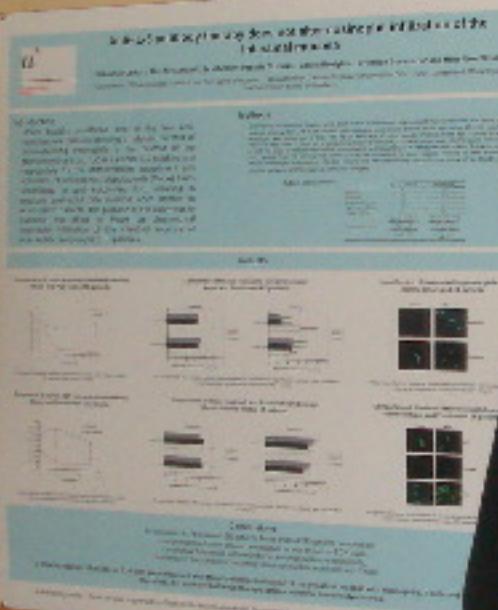
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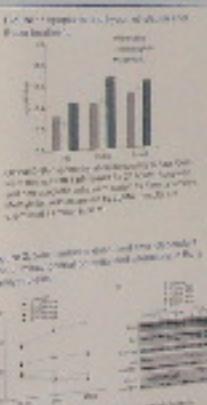
Hypomethylation and epigenetic changes in 5-azacytidine treated myeloid cells

Journal of Health Politics, Policy and Law, Vol. 35, No. 3, June 2010
DOI 10.1215/03616878-35-3 © 2010 by The University of Chicago

1. The University of Texas at Austin, College of Fine Arts, Department of Art History, 1970-1971
2. The University of Texas at Austin, Department of Art History, 1971-1972
3. The University of Texas at Austin, Department of Art History, 1972-1973
4. The University of Texas at Austin, Department of Art History, 1973-1974

1995 (B) Annual average > 4-leaf number in the
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1994-1995, in the presence of dry meadow leys for 5
> 10 years, especially continuous grazing. This is more
likely to occur in grazed than ungrazed grasslands.

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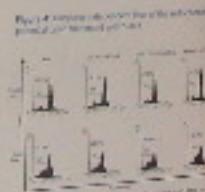
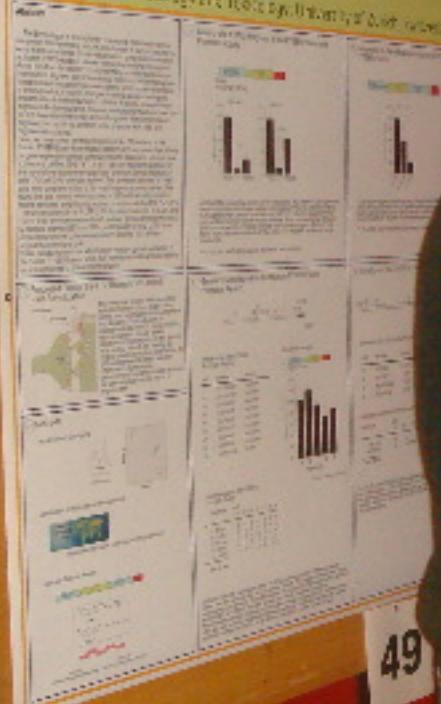


Table 2-10
Estimated Number of Deaths from Motor Vehicle Accidents by Age Group, Sex, and Injury Type

Genetic Variability In the Human EP₂ Prostaglandin Receptor Gene: Its Effects on EP₂ Receptor Gene Expression in a Human Neuroblastoma Cell Line *John S. Schreiber, Peter J. Kline, Jonathan E. Slatkin, and Robert J. Lefkowitz*

Institute of Pharmacology and Toxicology, University of Duisburg-Essen



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