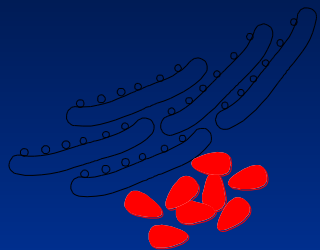
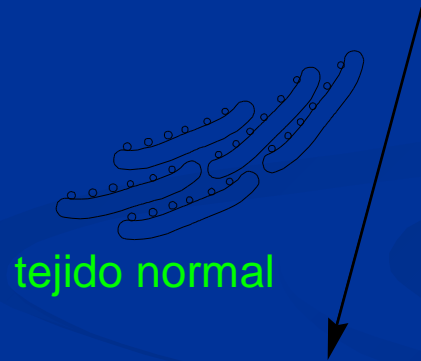
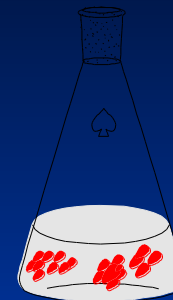
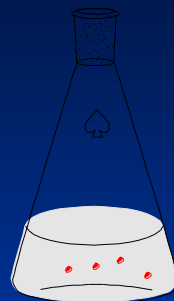


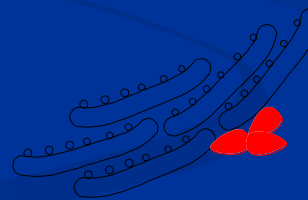
# ESFEROIDES



tumor en tejido



tejido normal



tumor xenotransplantado

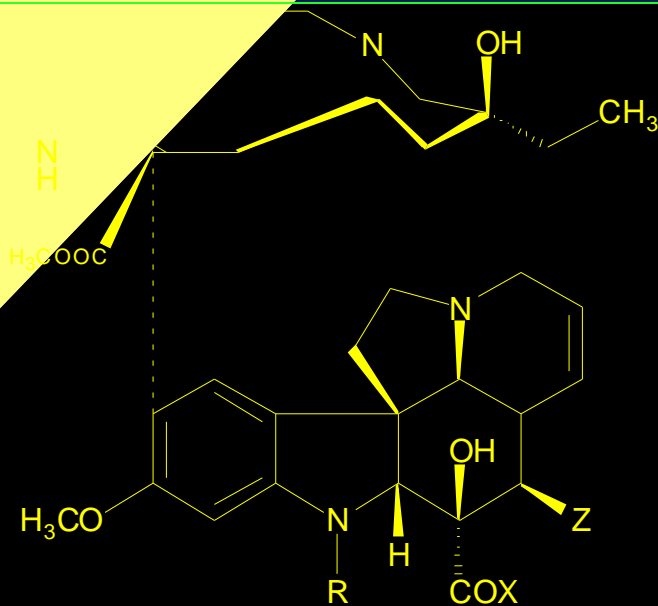
# CANCER

Para ver esta película, debe  
disponer de QuickTime™ y de  
un descompresor Photo - JPEG.

# CANCER

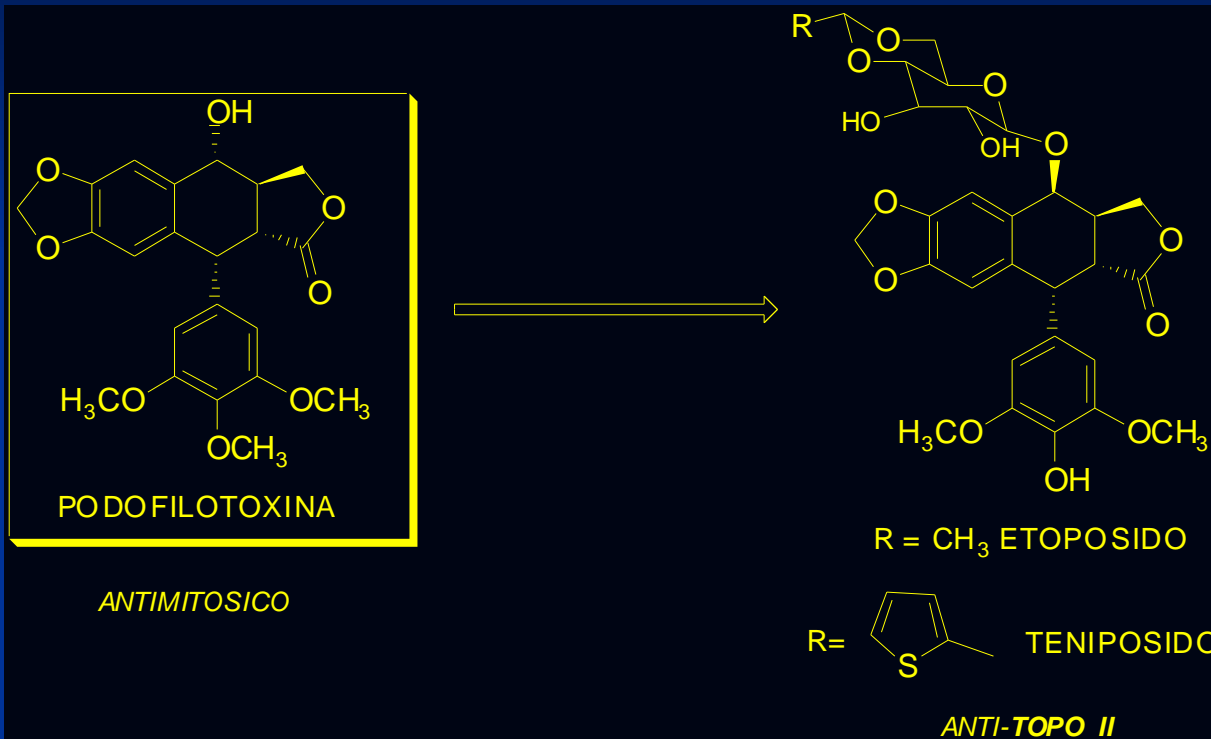
Para ver esta película, debe  
disponer de QuickTime™ y de  
un descompresor Photo - JPEG.

**AISLAMIENTO Y PURIFICACION  
DE  
PRODUCTOS NATURALES**

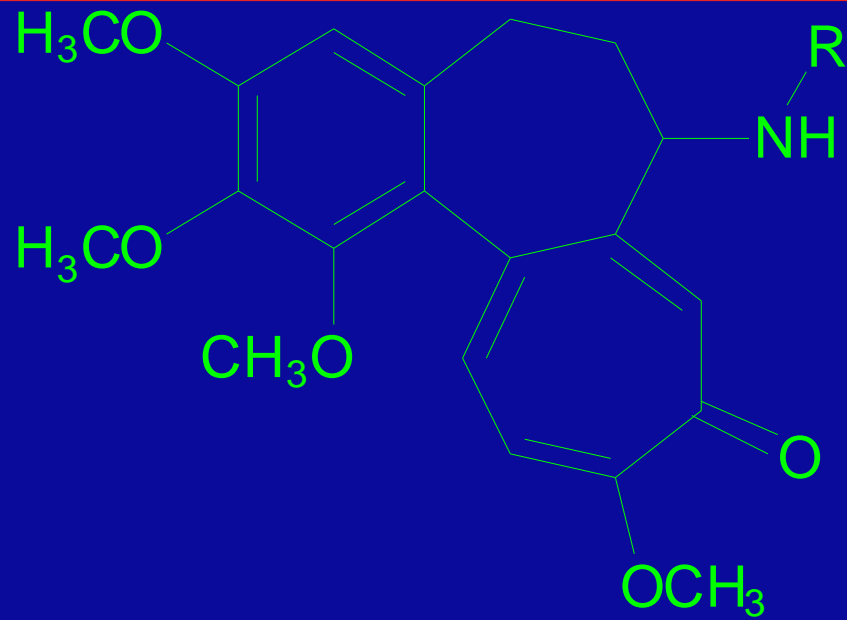


$X = \text{OCH}_3, R = \text{CH}_3, Z = \text{OCOCH}_3, \text{VINBLASTINA}$   
 $X = \text{OCH}_3, R = \text{CHO}, Z = \text{OCOCH}_3, \text{VINCRISTINA}$   
 $X = \text{NH}_2, R = \text{CH}_3, Z = \text{OH}, \text{VINDESINA}$

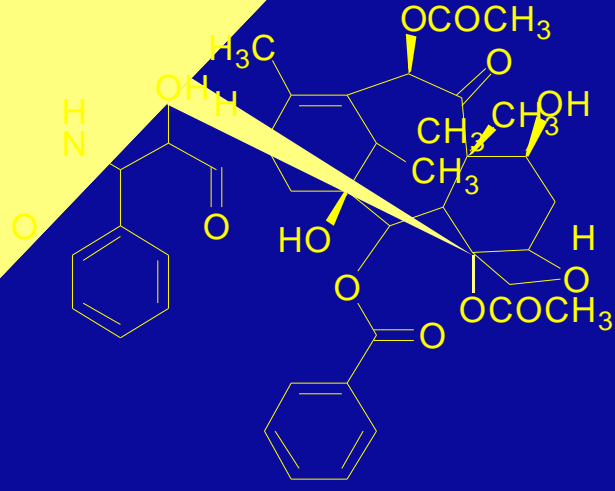
VINCA: *Catharantus roseus*



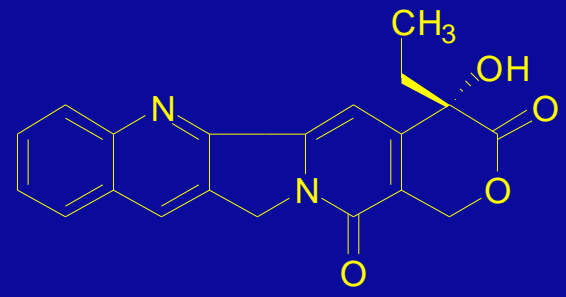
ANTIVIRICO CLASICO  
VERRUGAS



R = CO-CH<sub>3</sub> COLCHICINA  
R = CH<sub>3</sub> DEMECOLCHICINA



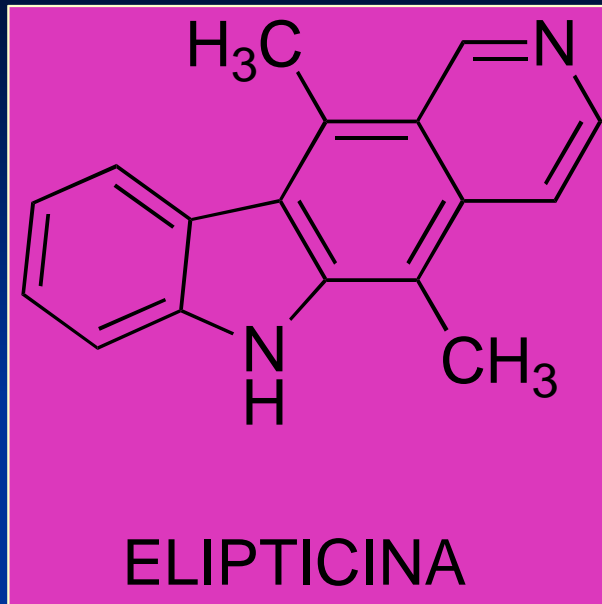
TAXOL



CAMPTOTECINA

WALL, 1963

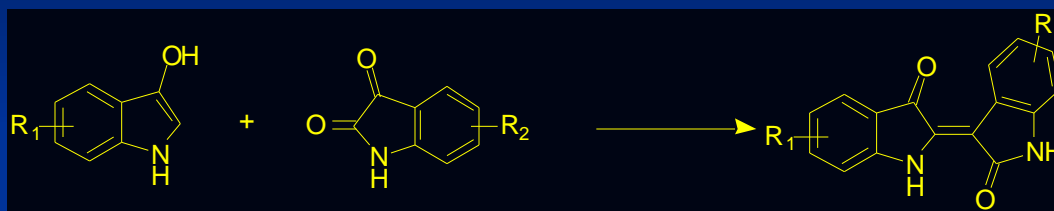




AISLADO DE LA *Ochrosia elliptica*  
Goodwin *et al.* 1959

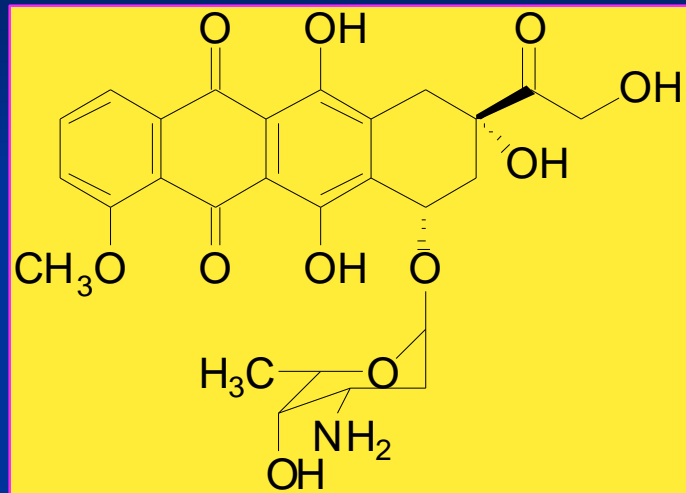
# INDIRUBINAS

POLVO AZUL OSCURO AISLADO DE PLANTAS MEDICINALES CHINAS  
ISOMEROS DEL INDIGO:



LOS MAS ACTIVOS:  $IC_{50}$  nM FRENTE A CDK1 y CDK2:



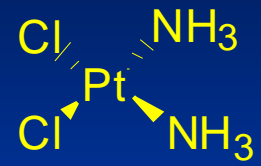


DOXORUBICINA

CASUALIDAD

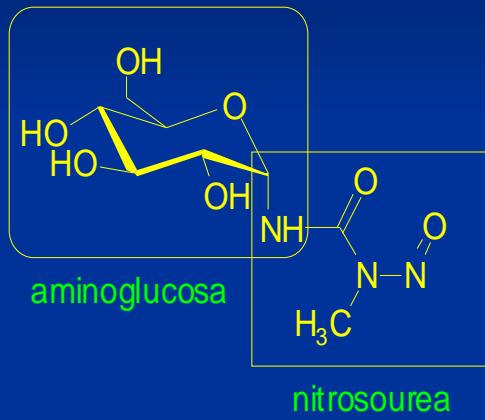
SCREENING CIEGO

SERENDIPITY



ROSEMBERG

OBSERVACION INTELIGENTE

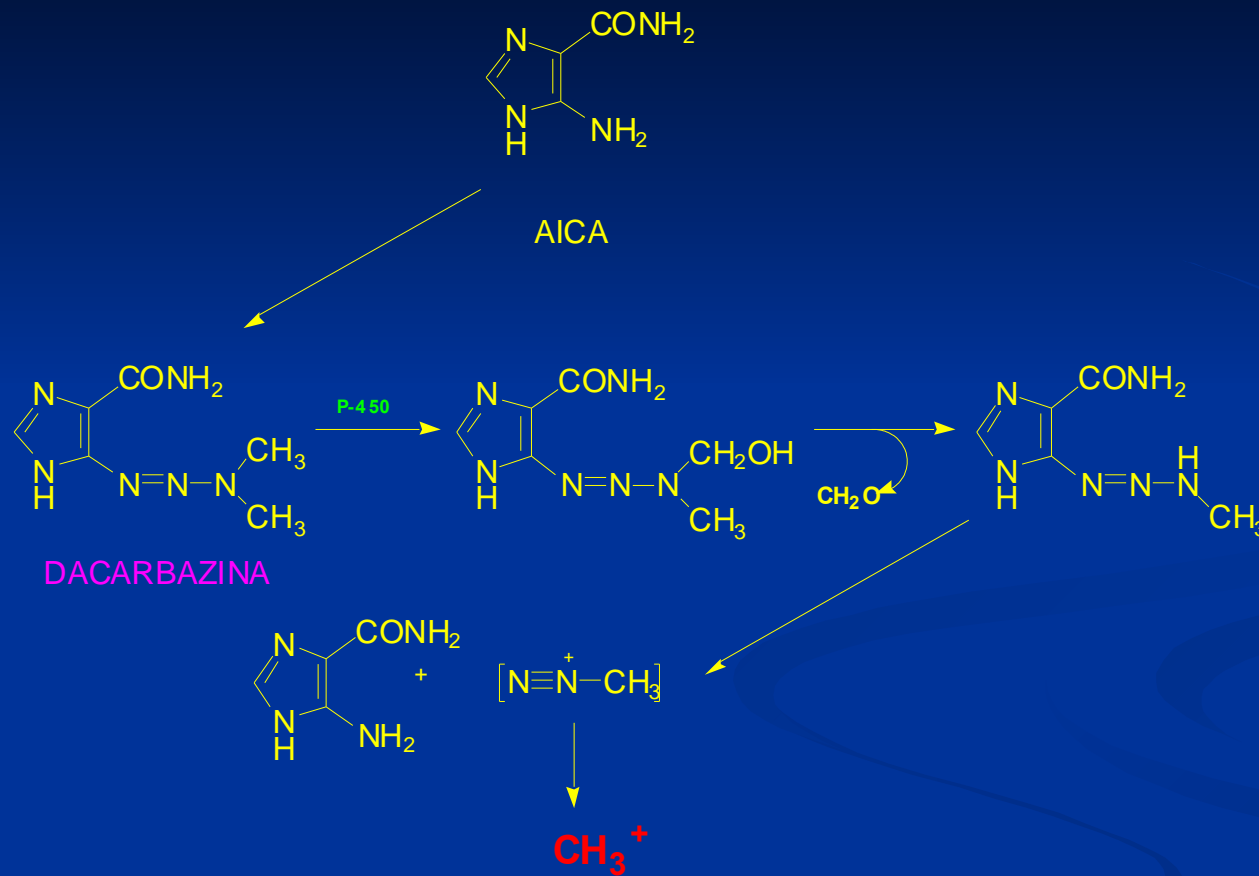


NITROSOUREAS

ESTREPTOZOCINA  
AISLADA DE *Streptomices styreptozoticus*

CASUALIDAD

# TRIAZENOS

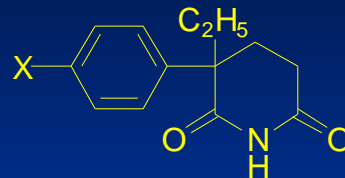


SHEALY, 1962

SCREENING CIEGO

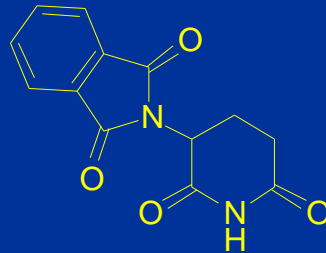


PRIMIDONA



X = H  
X = NH<sub>2</sub>

GLUTETIMIDA (hipnótico)  
AMINOGLUTETIMIDA (anticonvulsivante)



TALIDOMIDA (antiangiogénico)



SIND. ADDISON

SERENDIPITY

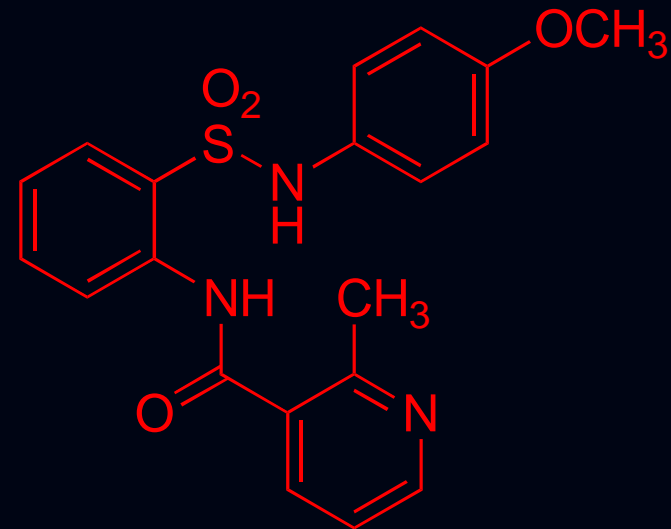






SULOFENUR

ZIMMERMANN 1991



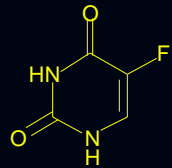
ER-1337

NIJIMA 1993

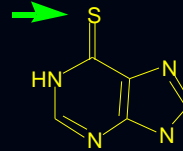
SERENDIPITY

# ANTIMETABOLITOS

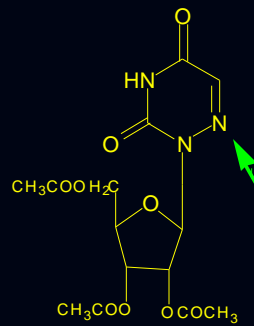
# ANTIMETABOLITOS



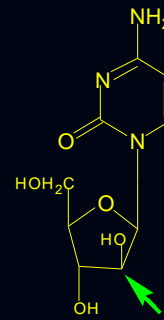
5-FLUORURACILO



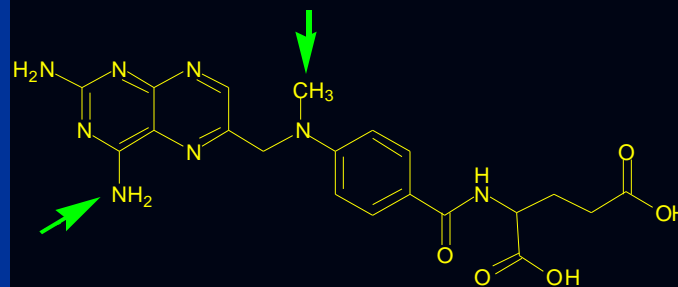
6-MERCAPTOPURINA



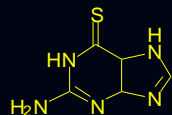
AZARIBINA



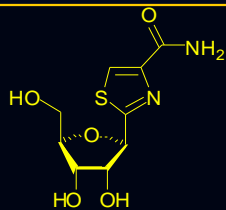
CITARA BINA (ara-C)



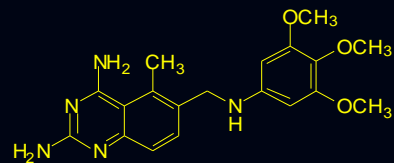
METOTREXATO



TIOGUANINA



TAZOFURINA



TRIMETRE XATO



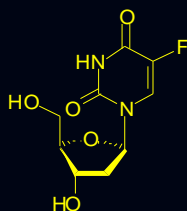
CLORODESOXIADENOSINA



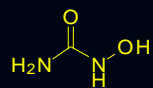
FLUDARABINA



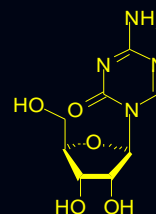
PENTOSTATINA



5-FLUORDESOXIURIDINA



HIDROXIUREA



5-AZACITIDINA

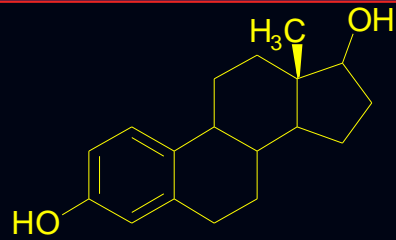


PROPARGIL-5,8-DE AZAFOLICO

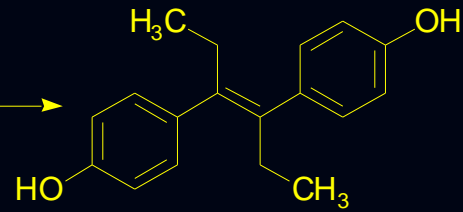
CONFORMACION

VERSUS

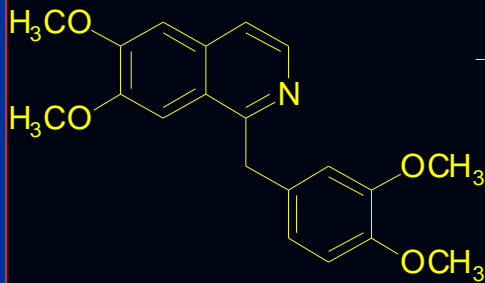
CONFIGURACION



ESTRADIOL



ESTILBESTROL



PAPAVERINA



VERAPAMILO

# EL DNA COMO DIANA