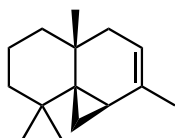
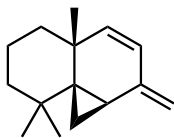


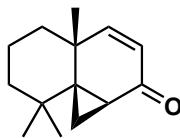
TOTAL SYNTHESIS OF THE SMITH GROUP



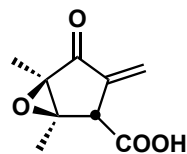
THUJOPSENE  
(1977)



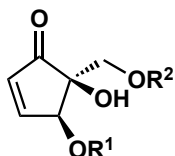
THUJOPSADIENE  
(1977)



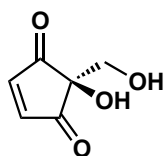
MAYURONE  
(1977)



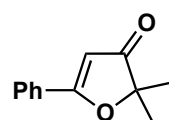
METHYLENOMYCIN  
(1977)



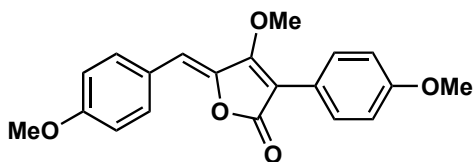
PENTENOMYCIN I  $R^1 = R^2 = H$   
PENTENOMYCIN II  $R^1 = Ac, R^2 = H$   
PENTENOMYCIN III  $R^1 = H, R^2 = Ac$   
(1978)



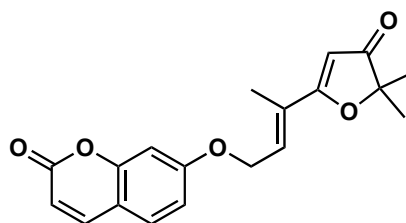
DEHYDROPENTENOMYCIN I  
(1978)



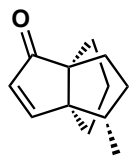
BULLATENONE  
(1978)



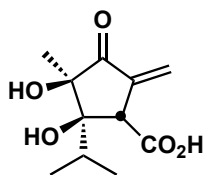
PULVINONE  
(1979)



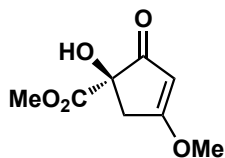
GEIPARVARIN  
(1980)



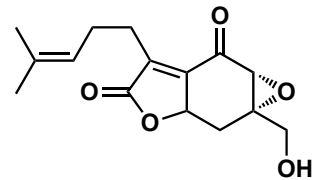
MODHEPHENE  
(1981)



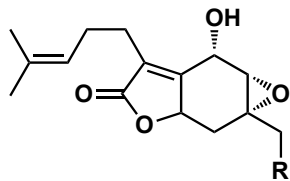
XANTHOCIDIN  
(1981)



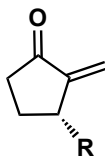
KJELLMANIANONE  
(1981)



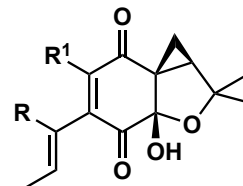
PANICULIDE C  
(1981)



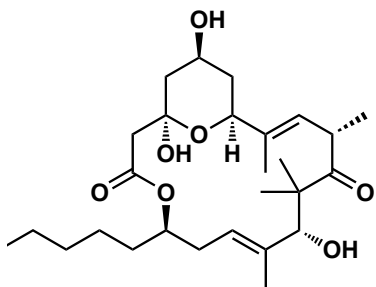
PANICULIDE A  $R = H$   
PANICULIDE B  $R = OH$   
(1981)



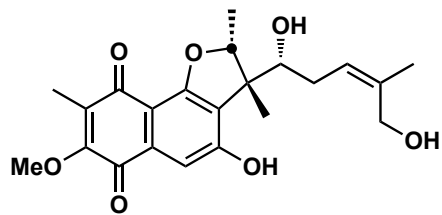
SARKOMYCIN  $R = CO_2H$   
HOMOSARKOMYCIN  $R = CH_2CO_2H$   
(1982)



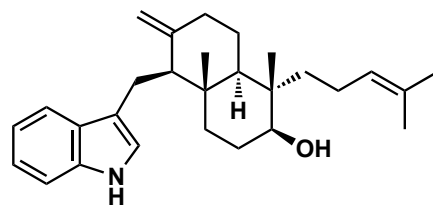
MYCORRHIZIN A  
(1982)



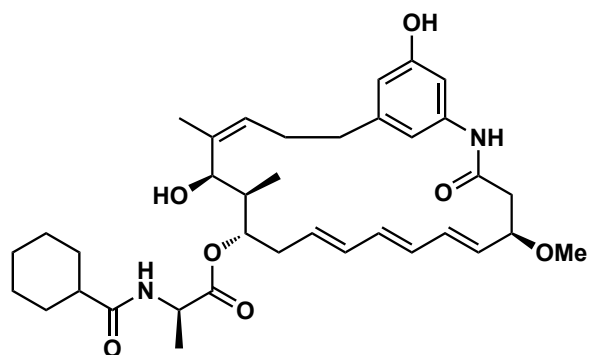
ACUTIPHICIN  
(1994)



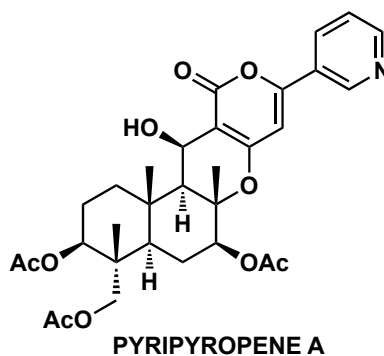
FURAQUINOCIN A



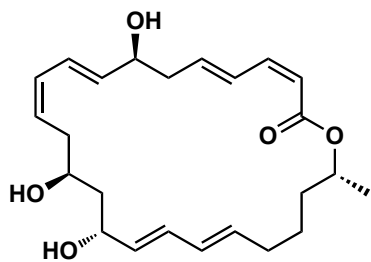
EMINDOLE SA  
(1994)



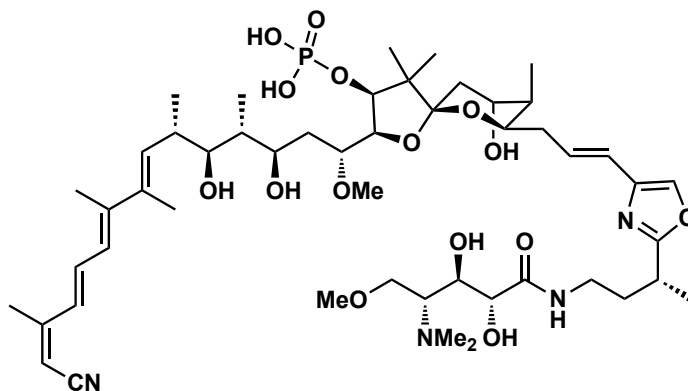
TRIENOMYCIN A  
(1995)



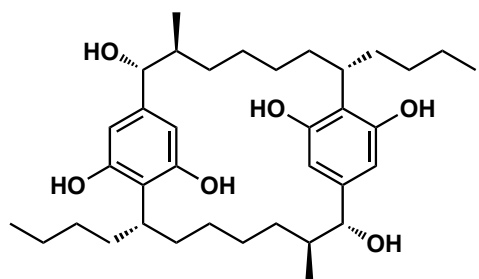
PYRIPYROPENE A



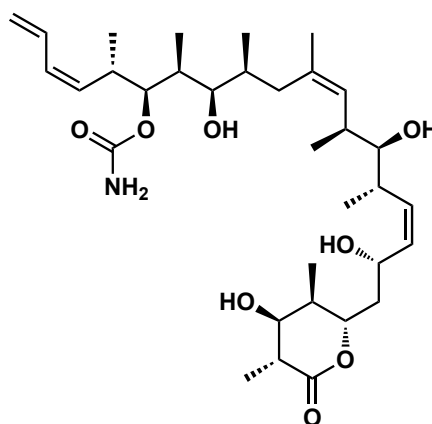
MACROLACTIN A  
(1996)



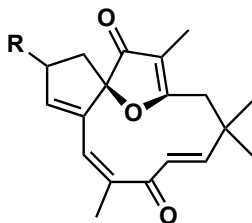
CALYCULIN A  
(1998)



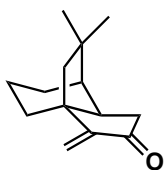
CLYINDROCYCLOPHANE A & F  
(1999)



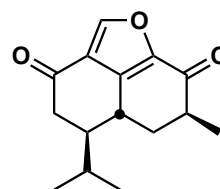
DISCODERMOLIDE (1999)  
(1 Gram Synthesized)



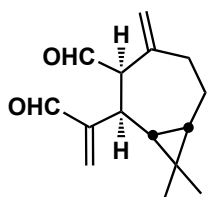
**JATROPHONE** R = Me  
**EPIJATROPHONE** R = Me  
**NORMETHYLJATROPHONE** R = H  
 (1982)



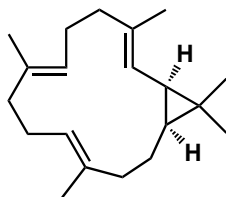
**DESCARBOXYQUADRONE**  
 (1982)



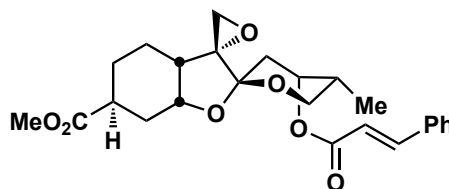
**HIBISCONE C**  
 (1982)



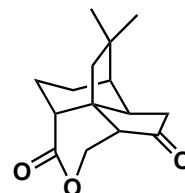
**(+)-HANEGOKEDIAL**  
 (1983)



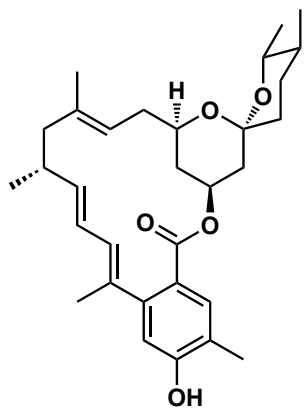
**CASBENE**  
 (1983)



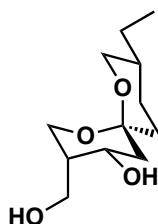
**PHYLLANTHOCIN**  
 (1983)



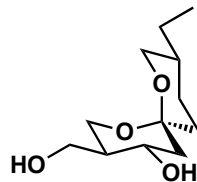
**QUADRONE**  
 (1984)



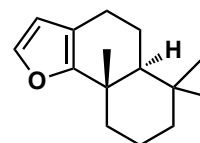
**MILBEMYCIN**  
 (1984)



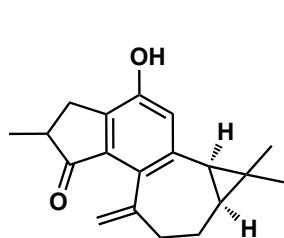
**TALAROMYCIN A**  
 (1984)



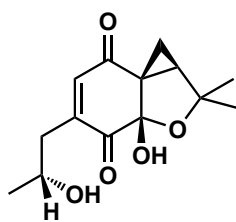
**TALAROMYCIN B**  
 (1984)



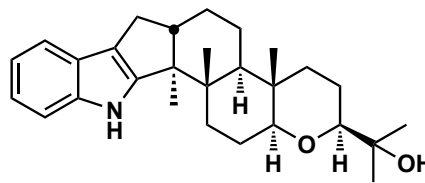
**(+)-PALLESCENSIN A**  
 (1984)



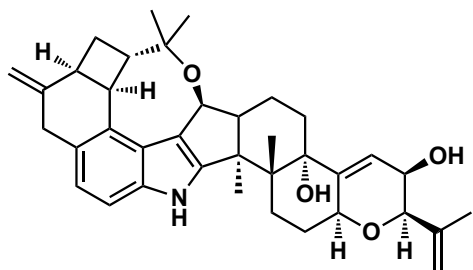
**JATHROPHOLONE A and B**  
 (1985)



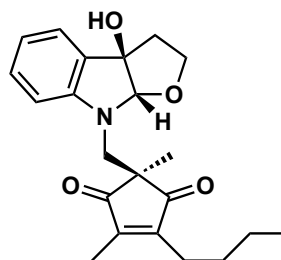
**GILMICOLIN**  
 (1985)



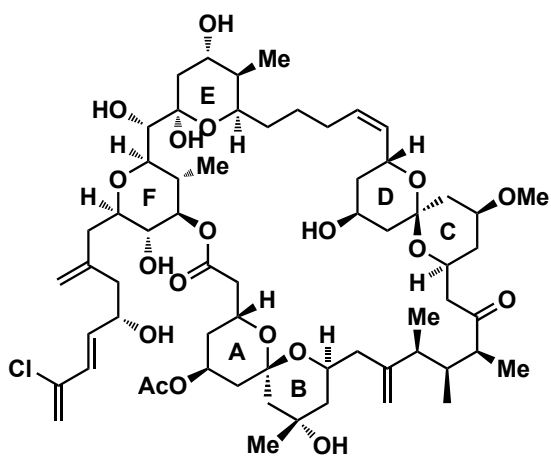
**PASPALICINE**  
 (1985)



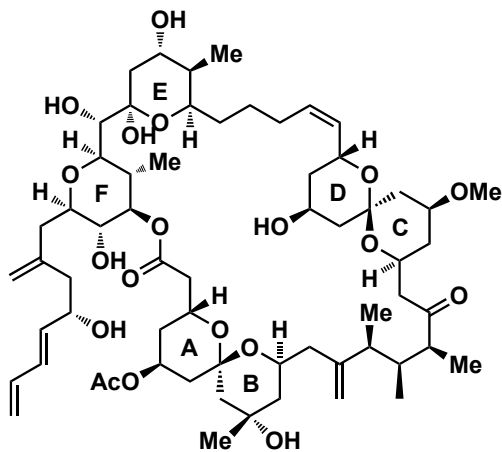
**PENITREM D**  
(1999)



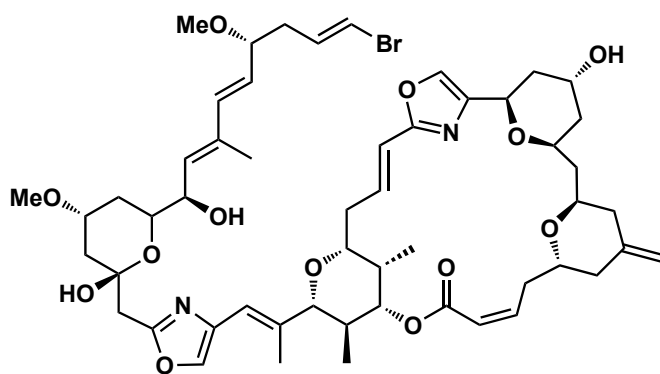
**MADINDOLINE A & B**  
(2000)



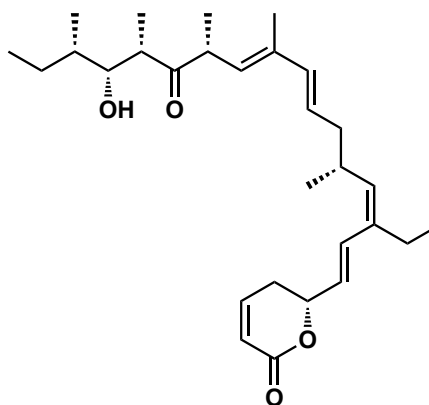
**SPONGISTATIN 1** (2001)  
(1 Gram Synthesized)



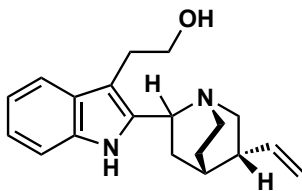
**SPONGISTATIN 2**  
(2001)



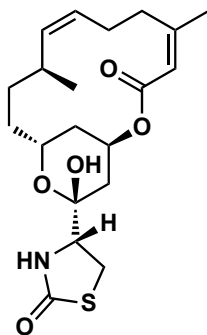
**PHORBOXAZOLE A**  
(2001)



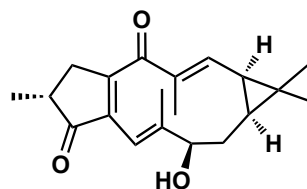
**CALLYSTATIN A**  
(2001)



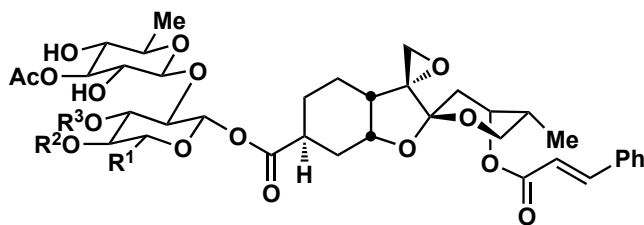
(+)-CINCHONAMINE  
(+)-EPICINCHONAMINE  
(1986)



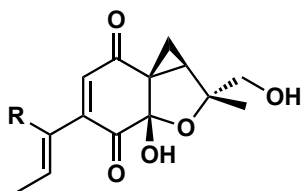
LATRUNCULIN B  
(1986)



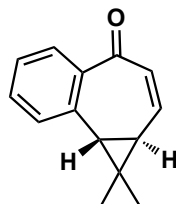
BERTYADIONOL  
(1986)



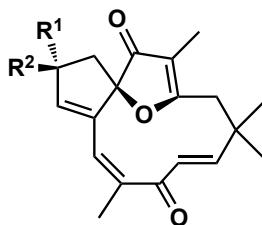
PHYLLANTHOSIDE  $R^1 = \text{Me}, R^2 = \text{H}, R^3 = \text{Ac}$  (1986)  
 PHYLLANTHOSTATIN 1  $R^1 = \text{Me}, R^2 = \text{Ac}, R^3 = \text{H}$  (1987)  
 PHYLLANTHOSTATIN 2  $R^1 = \text{CH}_2\text{OH}, R^2 = \text{H}, R^3 = \text{Ac}$  (1987)



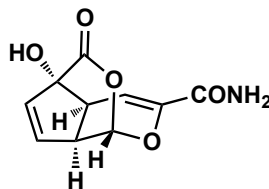
MIKROLIN  $R = \text{Cl}$   
 DECHLOROMIKROLIN  $R = \text{H}$   
 (1987)



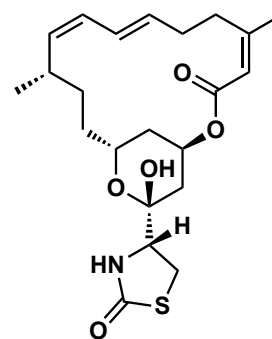
MÖBIUS ANTI-AROMATIC  
(1987)



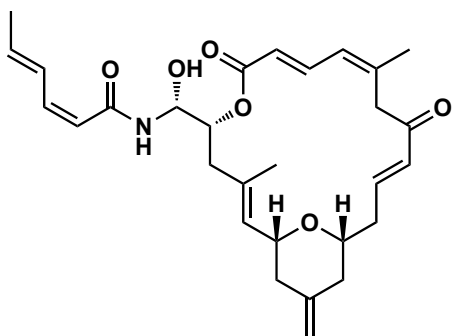
HYDROXYJATROPHONE A  $R^1 = \text{OH}, R^2 = \text{Me}$   
 HYDROXYJATROPHONE B  $R^1 = \text{Me}, R^2 = \text{OH}$   
 (1989)



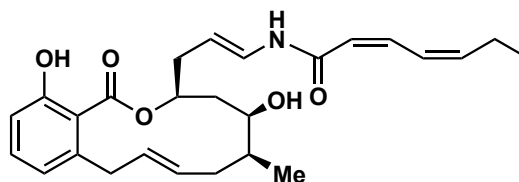
ECHINOSPirin  
(1989)



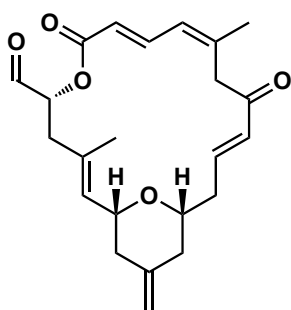
LATRUNCULIN A  
(1989)



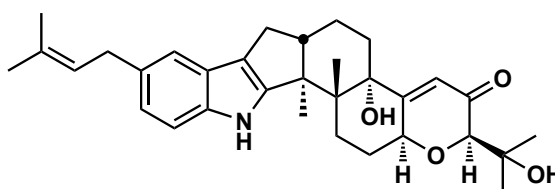
**ZAMPANOLIDE**  
(2001)



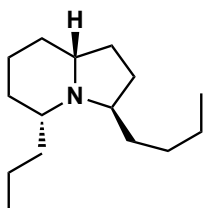
**SALICYLIHALAMIDE A**  
(2001)



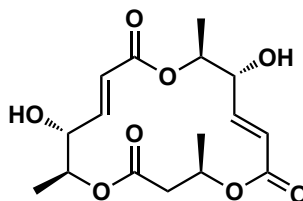
**DACTYLOLIDE**  
(2002)



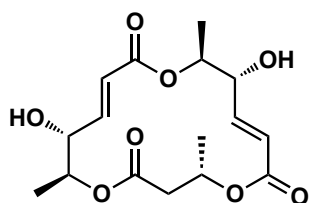
**(-)-21-ISOPENTENYLPAXILLINE**  
(2004)



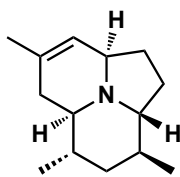
**(-)-INDOLIZIDINE 223AB**  
(2004)



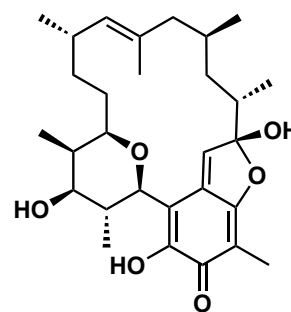
**(-)-MACROSPHELIDE E**  
(2004)



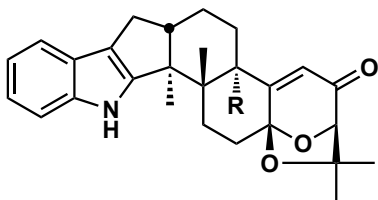
**(-)-MACROSPHELIDE A**  
(2005)



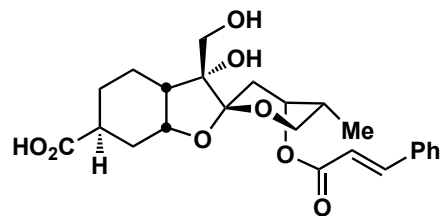
**ALKALOID (-)-205B**  
(2005)



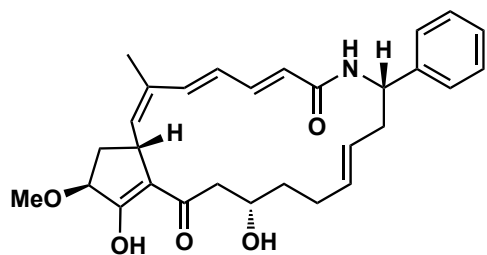
**(-)-KENDOMYCIN**  
(2006)



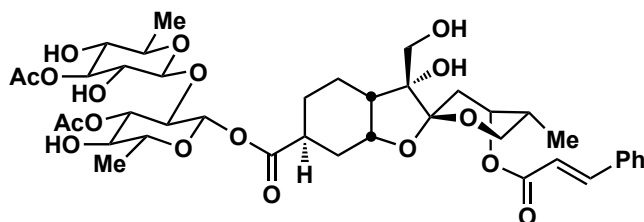
PASPALICINE R = H  
 PASPALININE R = OH  
 (1990)



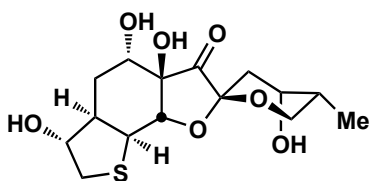
PHYLLANTHOCINDIOL  
 (1990)



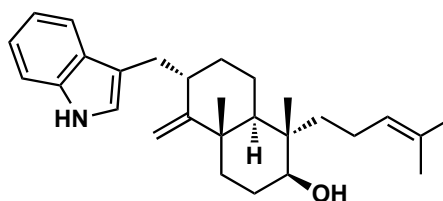
HITACHIMYCIN  
 (1990)



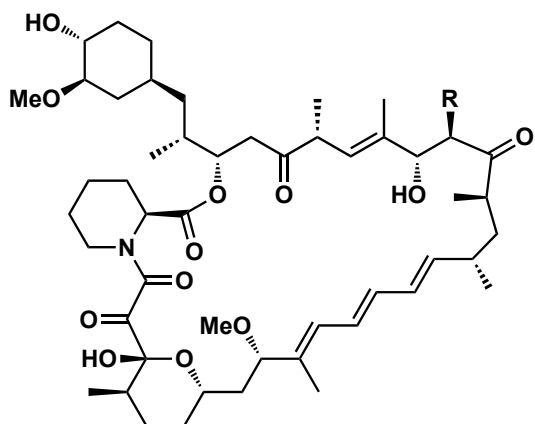
PHYLLANTHOSTATIN 3  
 (1990)



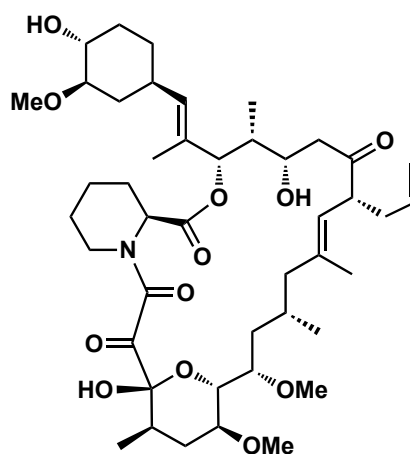
BREYNOLIDE  
 (1991)



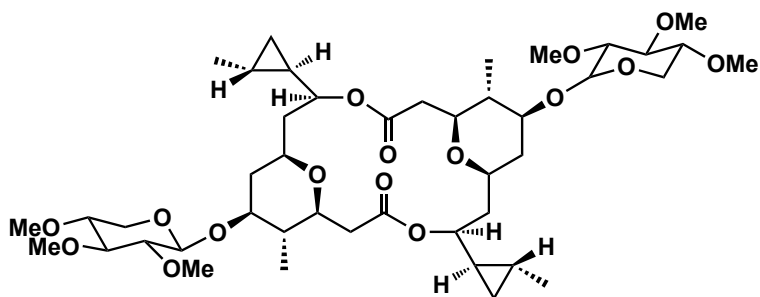
EMENIVEOL  
 (1993)



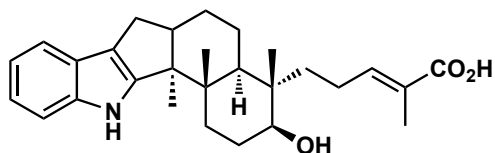
RAPAMYCIN R = OMe  
 DEMETHOXYRAPAMYCIN R = H  
 (1994)



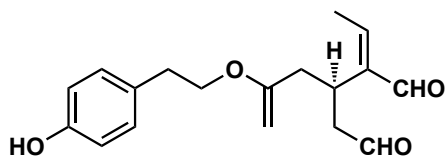
FK506  
 (1994)



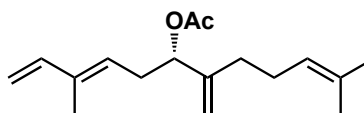
**(-)-CLAVOSOLIDE A**  
(2006)



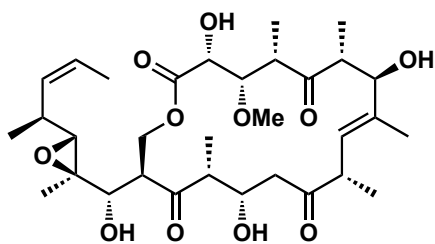
**(-)-NODULISPORIC ACID F**  
(2006)



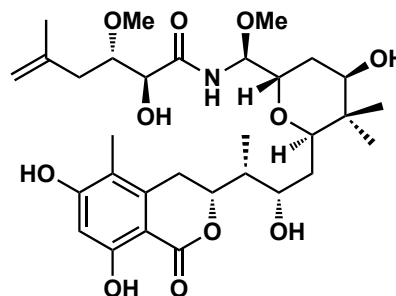
**(-)-OLEOCANTHAL**  
(2007)



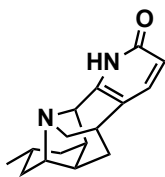
**GORGONIAN SESQUITERPENE**  
(2007)



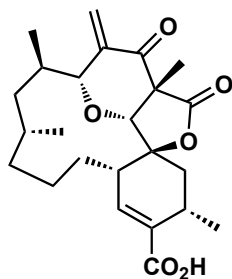
**(+)-TEDANOLIDE**  
(2007)



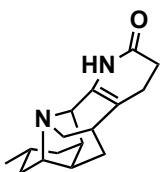
**(+)-IRCINIASTATIN A**  
(2007)



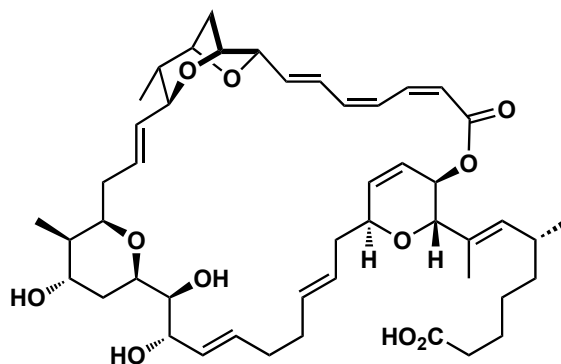
**(+)-LYCONADIN A**  
(2007)



**(-)-OKILACTOMYCIN**  
(2007)



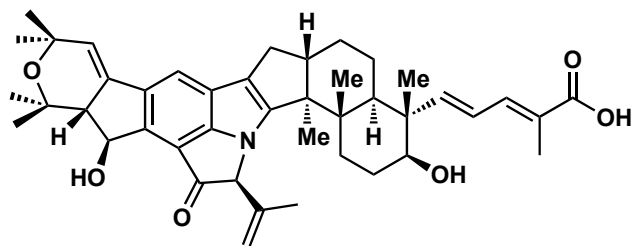
**(+)-LYCONADIN B**  
(2007)



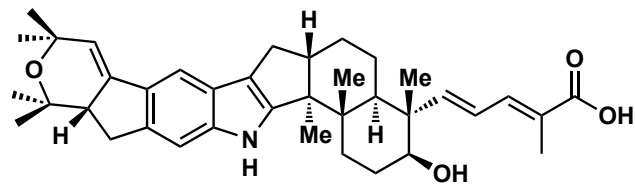
**(-)-SORANGICIN A**  
(2009)



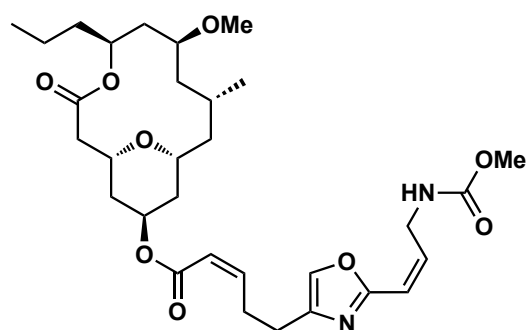
## Current Synthetic Targets



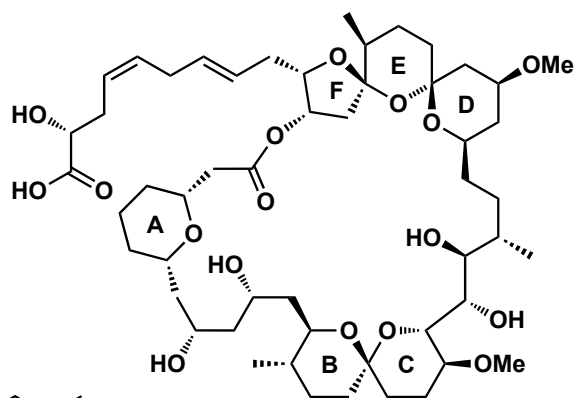
NODULISPORIC ACID A



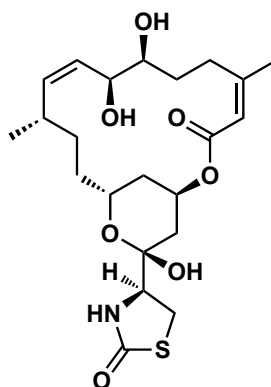
NODULISPORIC ACID D



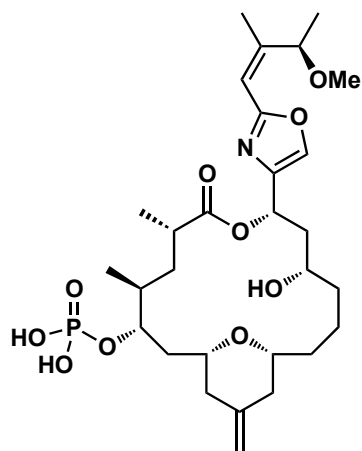
(+)-NEOPELTOLIDE



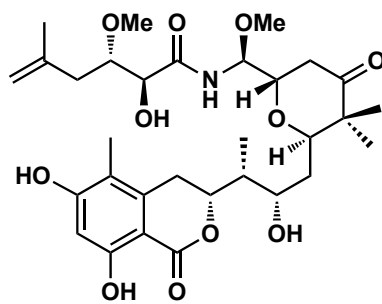
SPIRASTRELLOIDE B



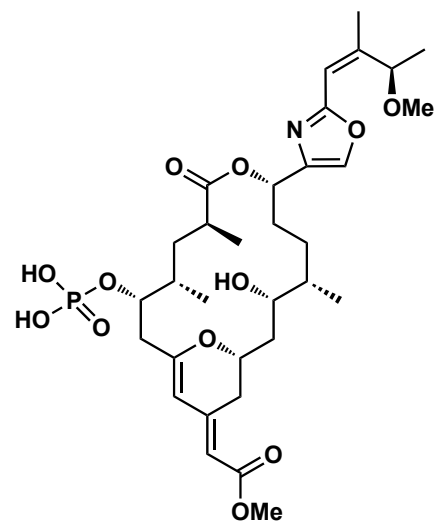
18-EPI-LATRUNCULOL A



(-)-ENIGMAZOLE A



IRCINIASTATIN B



(-)-ENIGMAZOLE B

