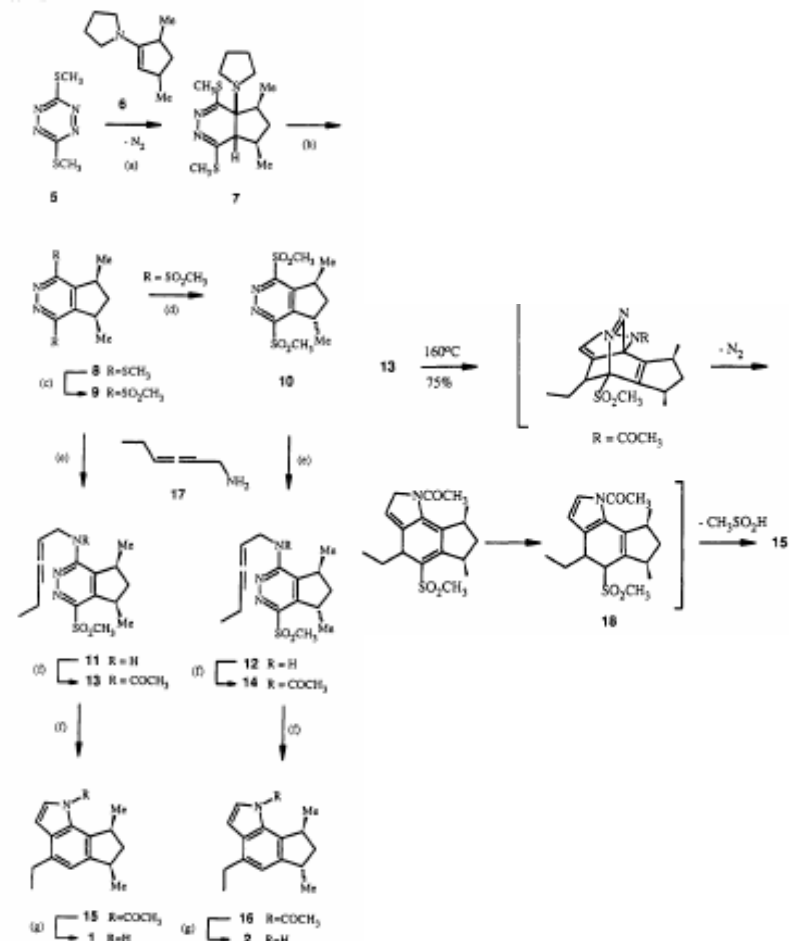
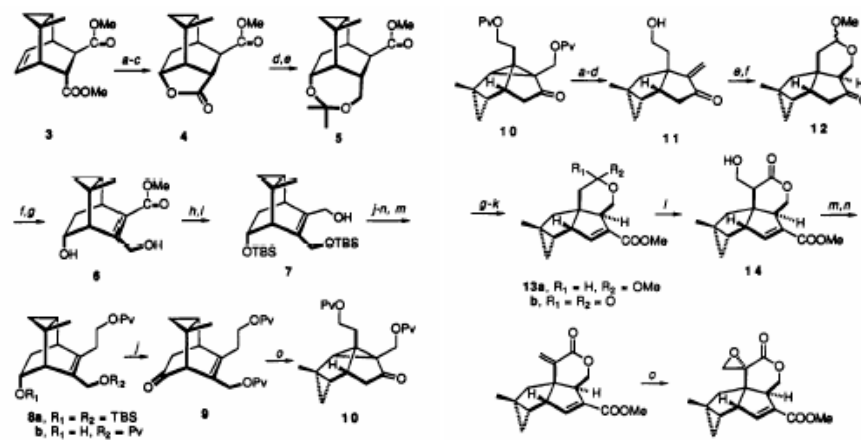


Boger (Purdue)-Triketrin (p. 4230)



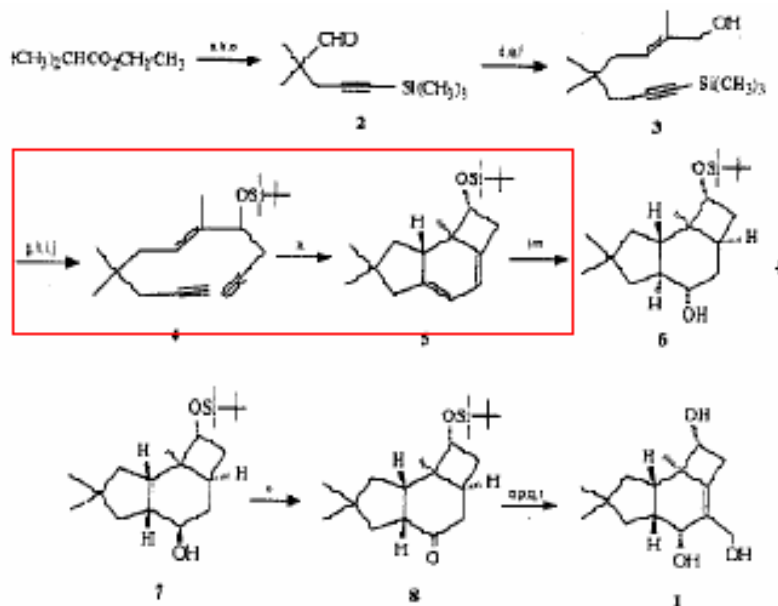
Paquette (Ohio State) Pentalenolactone (p. 9384)



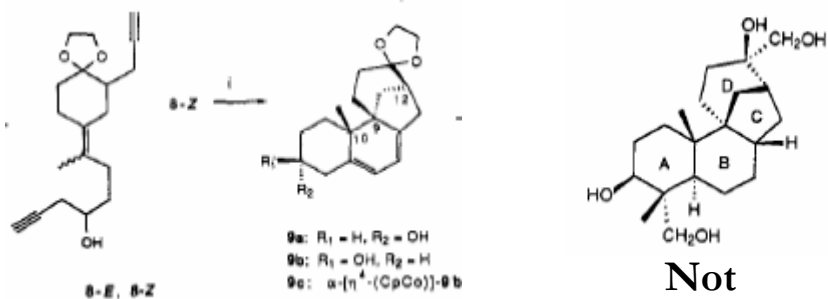
^aNaOH, $EtOH$, H_2O , room temperature. ^b Li , NH_3 . ^c Ac_2O , Et_3N , DMAP, CH_2Cl_2 , –20 °C. ^d Na_2CO_3 , MeOH, H_2O , room temperature. ^eSween oxidation. ^f $NaOMe$, MeOH, room temperature. ^gLDA, THF, –78 °C; $PhNTf_2$, –78 °C → 0 °C. ^h $Pd(OAc)_2$, Ph_3P , Et_3N , MeOH, DMF, CO atmosphere, room temperature. ⁱ CH_2N_2 . ^jHCl, THF, room temperature. ^k $(n-Pr)_2NRuO_4$ (TPAP), NMO, 4-Å sieves, CH_2Cl_2 , room temperature. ^lLDA, THF, –78 °C; CH_2O . ^m CH_2SO_2Cl , Et_3N , CH_2Cl_2 . ⁿDBU, C_6H_6 , room temperature. ^oMCPBA, CH_2Cl_2 , reflux.



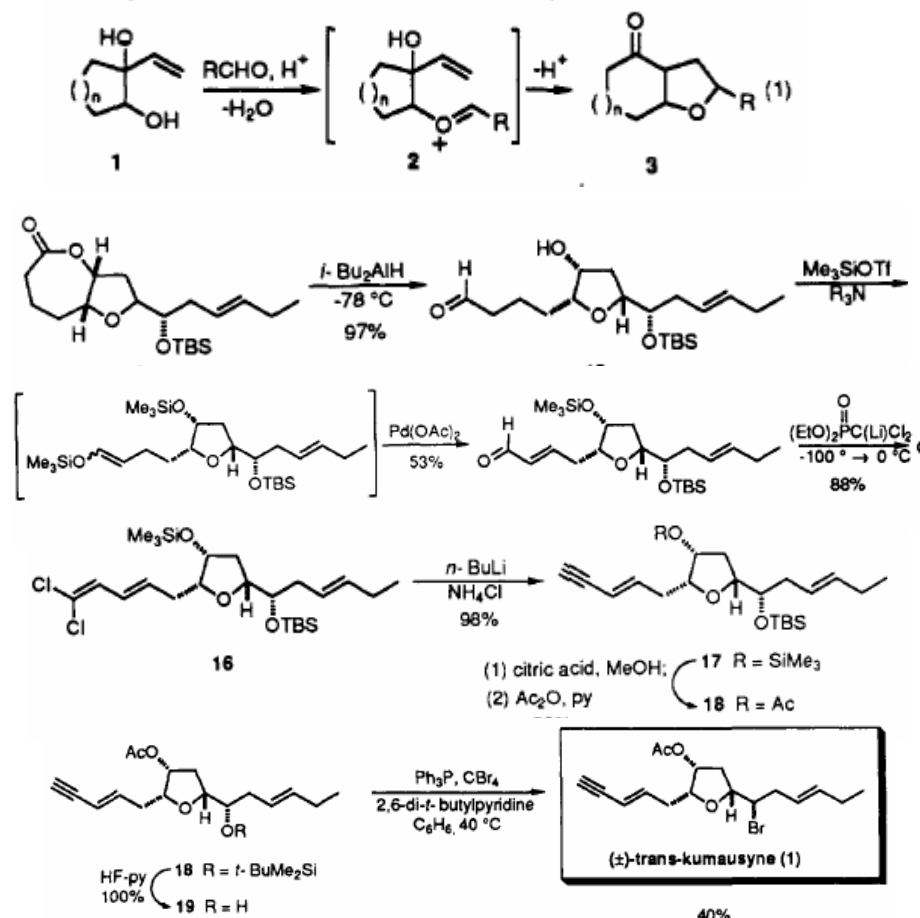
Vollhardt (Berkeley) Illudol (p. 381)



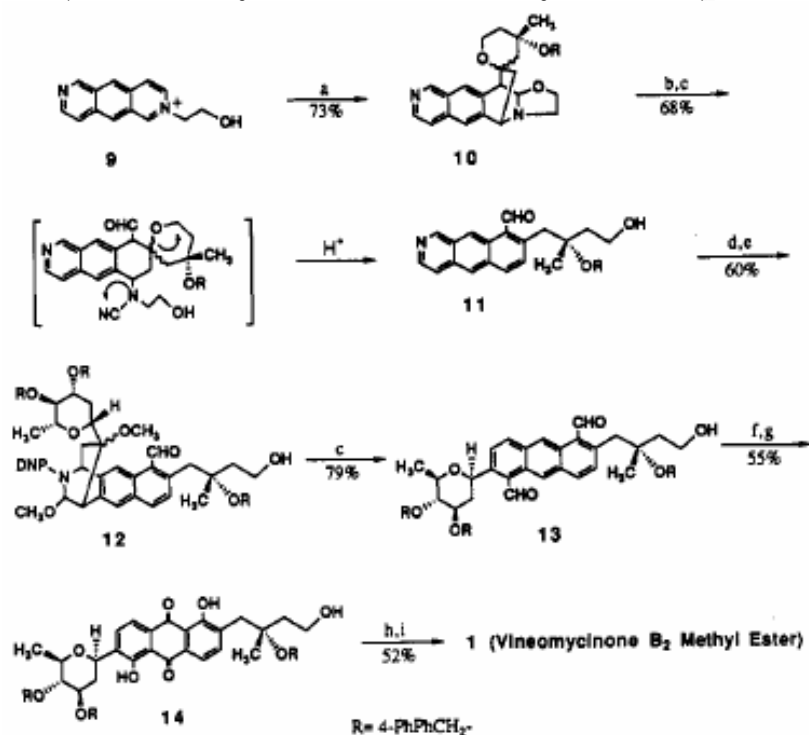
Vollhardt (Berkeley) Stemodin (p. 4007)



Overman (UCI)-Ring-Enlarging Tetrahydrofuran Annulations-Kumausyne (p. 5365)

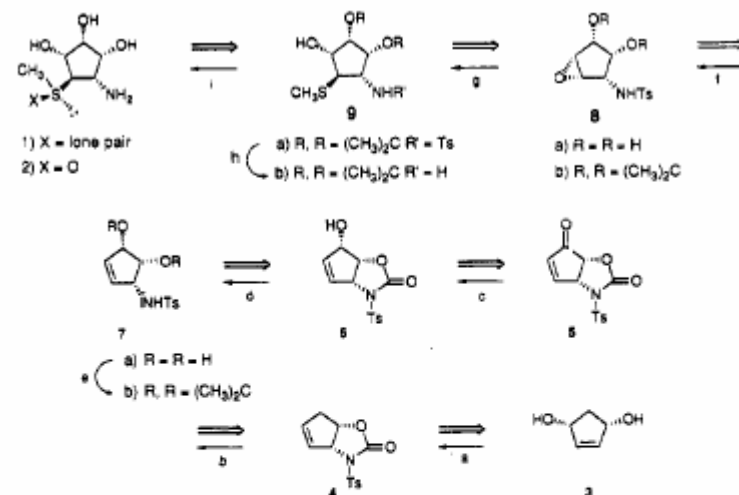


Mioskowski/Falck (Univ. Louis Pasteur/U. Texas)-Vineomycinone B₂ Methyl Ester (p. 6320)

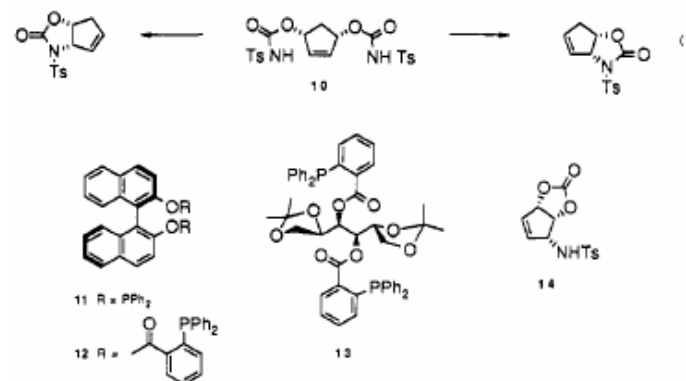


^a (a) **2**, CaCO₃, MeOH/CH₂Cl₂, 24 °C, 2 h; (b) CNBr, NaHCO₃, MeOH, 0 °C, 0.5 h; (c) 3 N HCl/THF, 40 °C, 12 h; (d) DNP-Br, CH₃CN, 65 °C, 10 h; (e) **4**, CaCO₃, MeOH, 10 °C, 6 h; (f) PhSeO₂H, H₂O₂, H₂O/CH₂Cl₂, 25 °C, 20 h; NH₄OH; (g) ¹O₂, CH₂Cl₂; NaBH₄, MeOH; O₂ (workup); (h) PDC, DMF, 25 °C, 10 h; CH₂N₂; (i) H₂ (1 atm), 5% Pd/C, EtOAc, 6 h.

Trost (Stanford) Mannostatin A' (p. 6317)



^a (a) TsNCO (2 equiv), THF, add 1.8 mol % [(iC₃H₇O)₃P]Pd, reflux, 97%; (b) SeO₂, Na₂HPO₄, quartz sand, diglyme, 170 °C, followed by Dess-Martin periodinane, NaHCO₃, CH₂Cl₂, room temperature, 65%; (c) NaBH₄, CeCl₃, CH₃OH, C₂H₅OAc, -5 °C, 83%; (d) K₂CO₃, CH₃OH-H₂O, room temperature, 95%; (e) (CH₃)₂C(OCH₃)₂, (C-H₃)₂CO, CSA, room temperature, 93%; (f) CF₃CO₂H, Na₂HPO₄, CH₂Cl₂, 90%; (g) CH₃SLi, THF, -78 °C to room temperature, 78%; (h) Na, NH₃, 97%; (i) 60% aqueous CF₃CO₂H, 60 °C, 86%.



Evans/Fu (Harvard)-Amide-Directed, Iridium-Catalyzed Hydroboration of Olefins (p. 4042)

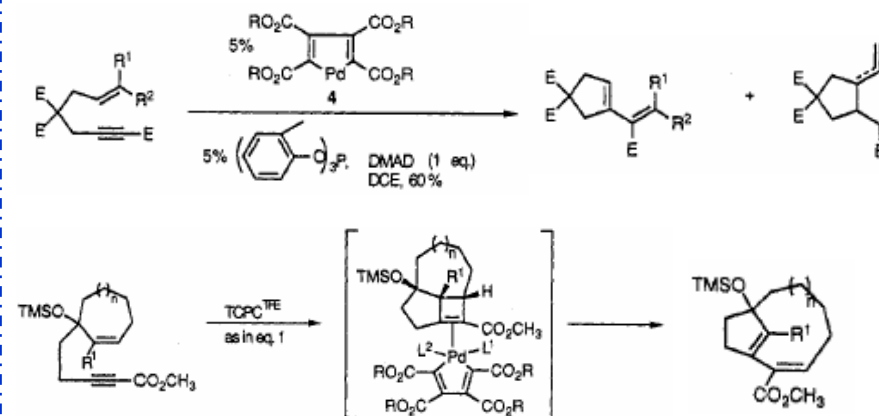
entry	substrate	product	selectivity ^a (% yield)
1			>99:1 (73)
2			99:1 (78)
3			1.2:1 (78)

	→		+ Σ isomers	(2)
<i>diastereoselection 95 : 5 (44%)</i>				
	→		+ Σ isomers	(3)
<i>diastereoselection 91 : 9 (77%)</i>				

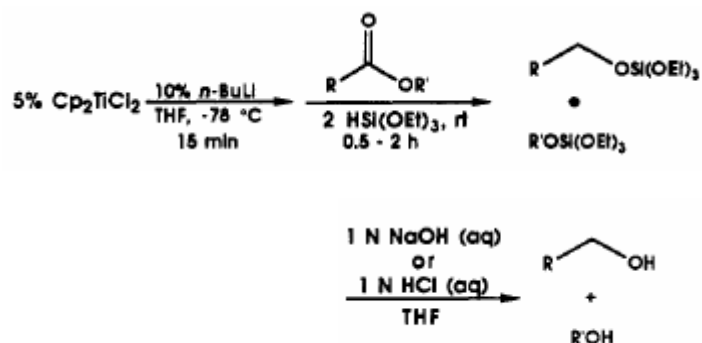
2a, R = CONHBn *diastereoselection 91 : 9 (77%)*
2b, R = COOMe
2c, R = OSi(*tert*-Bu)Me₂



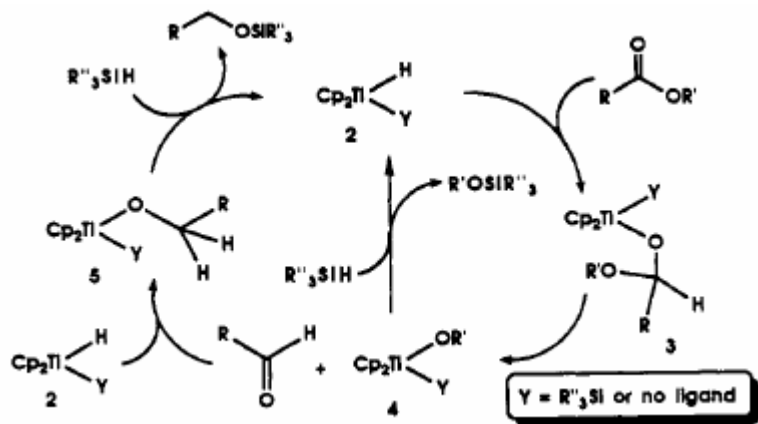
Trost (Stanford)- Intramolecular Enyne Metathesis (p. 1850)



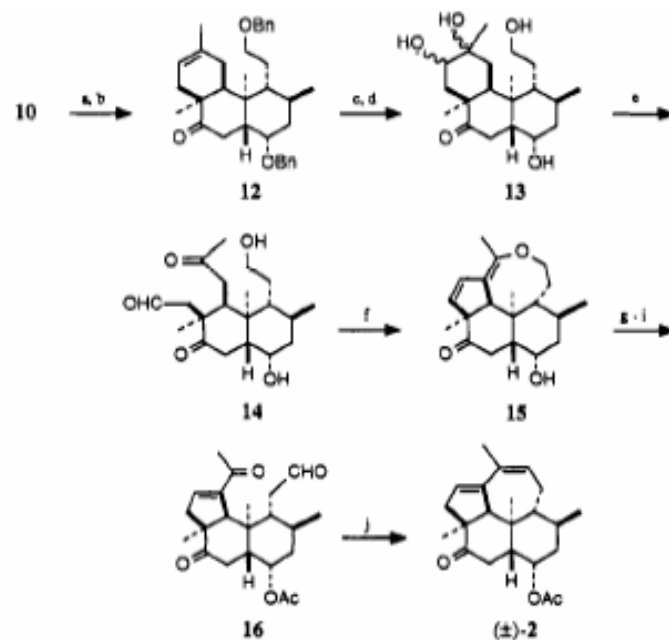
Buchwald (MIT)-Catalytic Reduction of Esters to Alcohols (p. 1326)



No tbutyl esters, tolerant of water

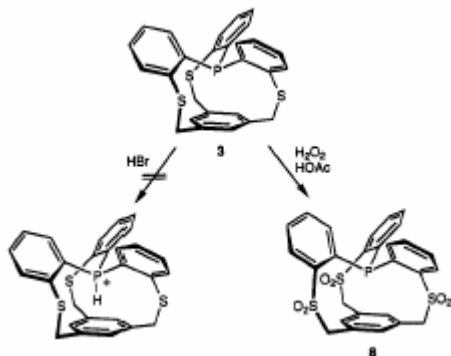


Dauben (Berkeley)-Kempene 2 (p. 5883)

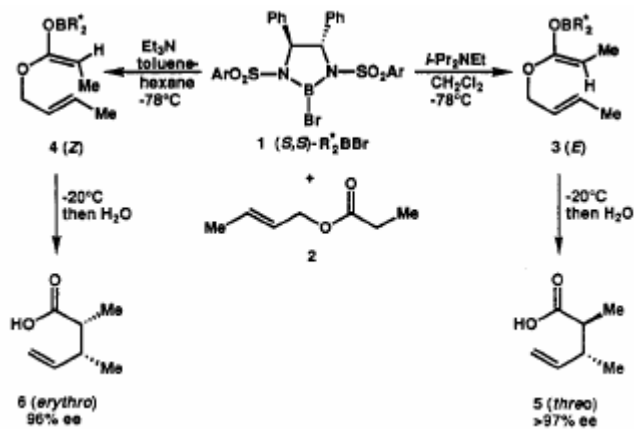


^a (a) EtAlCl_2 , toluene, 5 min, then isoprene, 80 °C, sealed tube, 24 h, 66%. (b) HPLC. (c) Cat. OsO_4 , $(\text{CH}_3)_3\text{NO}$, $(\text{CH}_3)_2\text{CO}/\text{H}_2\text{O}$, 95%. (d) H_2 , 10% Pd/C, AcOEt, 88%. (e) NaIO_4 , dioxane/ H_2O , 81%. (f) Cat. $\text{TsOH}\cdot\text{H}_2\text{O}$, C_6H_6 , 80 °C, 2 h, 61%. (g) Ac_2O , py, cat. DMAP, 66%. (h) HCl, EtOH, 80 °C, 2 h, 68%. (i) PCC/ Al_2O_3 , hexane/ CH_2Cl_2 , 57%. (j) $\text{TiCl}_3(\text{DME})_5$, Zn-Cu, DME, reflux, 4 h, then 16 added over 12 h, 2-h reflux, 32%.

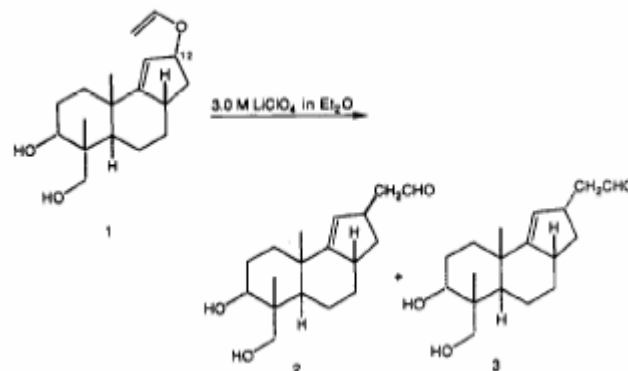
Pascal (Princeton) In-Cyclophanes (p 2672)



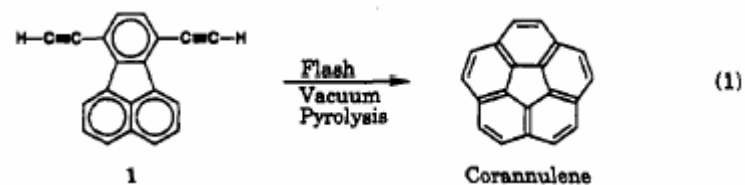
Corey (Harvard) Chiral Ireland/Claisen Rearrangements (p 4026)



Grieco (Indiana) [1,3] Sigmatropic rearrangement (p 5488)



Scott (Nevada) FVP Corannulene (p 4026)



Nirvana's Nevermind Album came out in 1991

I apologize for missing anything important