

### 1978 Fine Chemical Division Sitosterol Bioconversion Team

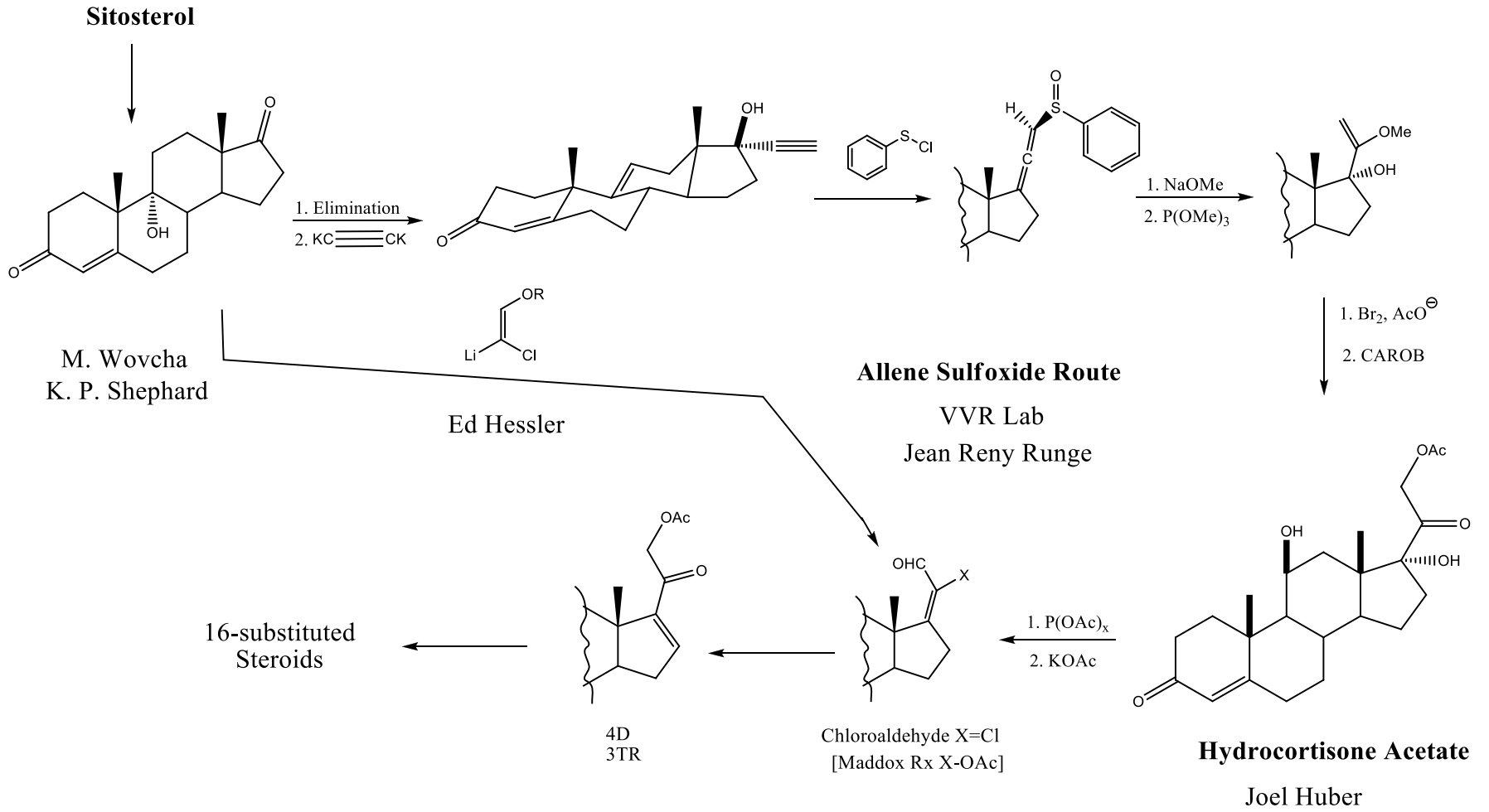


**From Left to Right:  
Top Row: Max Breuer, Jerry Walker, Joel Huber, Duane Dobry, Candice Biggs, Ed Hessler**

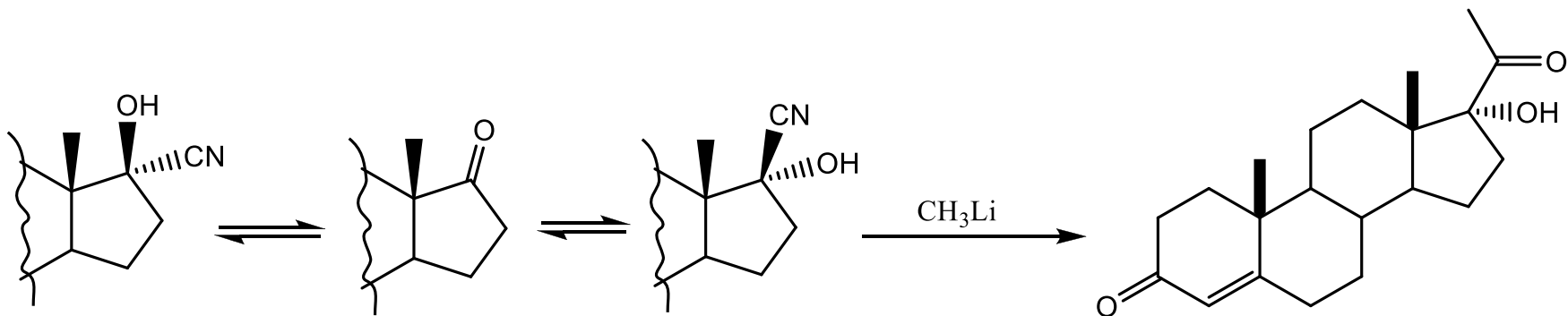
**Middle Row: Al Garcia, Jack Knight, Jim Rolls, Bill Haak, Fred Antosz, John Jost, Mukund Joshi, John Beaton, Brenda Ruff**

**Bottom Row: Jim Punch, Tom Miller, Tom Pyke, Leo Kominek, Paul Shepard, Verlan VanRheenen, Merle Wovcha kneeling**

# Sitosterol Routes 1974 - 1980



# Cyanohydrin Chemistry

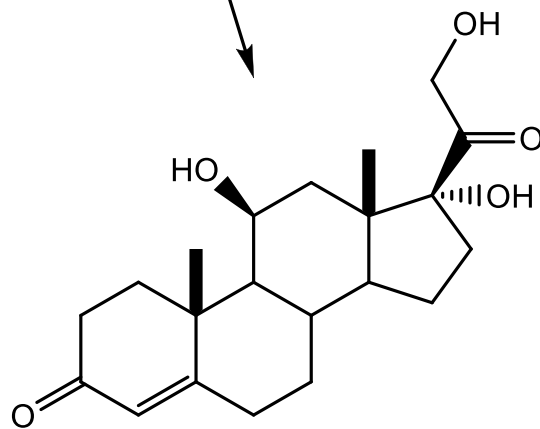


Initial	99
Midway	~50
End	1

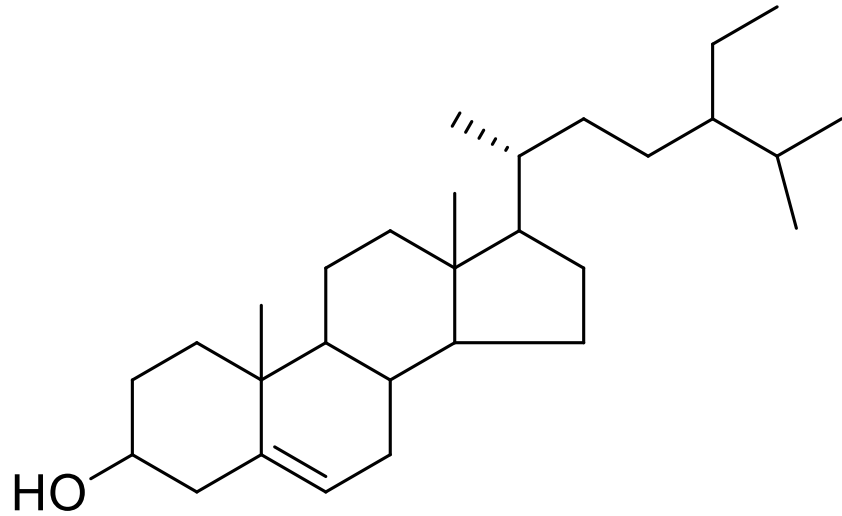
Initial	1
Midway	~50
End	99

SNAP

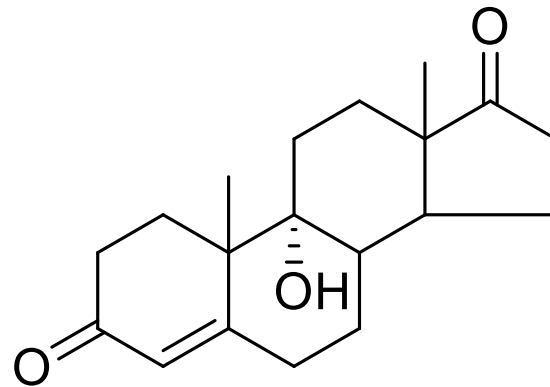
Provera



# Steroid Biochemical Story



sitosterol



9-alpha-hydroxyandrostenedione