



Elias James Corey, Dr.

Sheldon Emery Research Professor
Department of Chemistry and Chemical Biology, Harvard University

July 1928	Born	Methuen, Massachusetts, US
1945 - 1950	B.S & Ph.D	MIT (Advisor: John C. Sheehan)
1951 - 1953	Instructor	UIUC (Collaborator: Roger Adams & Carl S. Marvel)
1953 - 1959 - 1966	Assistant Prof. & Prof.	UIUC
1959 - now	Prof. & Sheldon Emery Prof.	Harvard



Dr. John Clark Sheehan
1915 - 1992

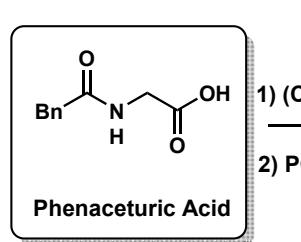


Dr. Roger Adams
"the Chief"
Head of Noyes Lab, UIUC
1889 - 1971

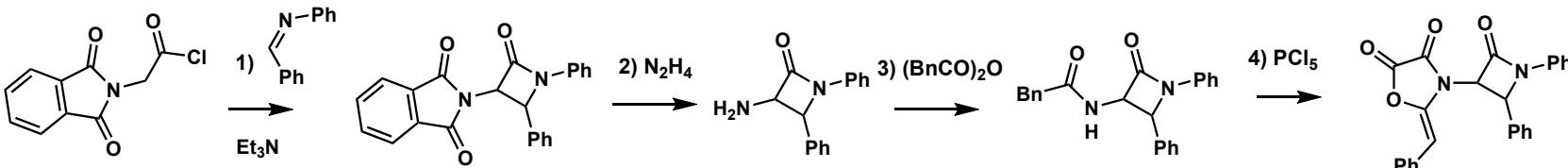
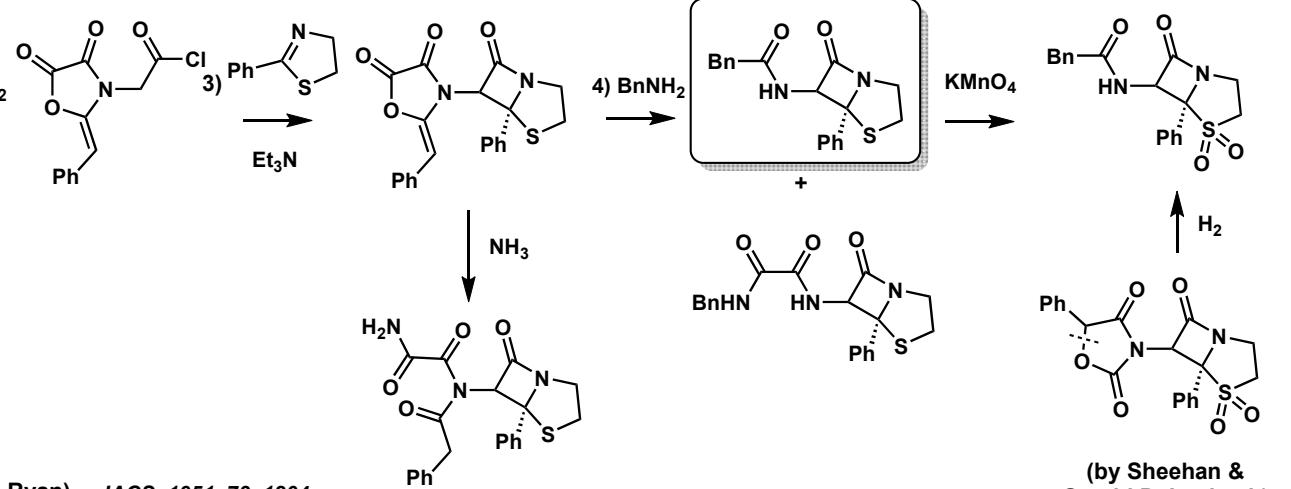


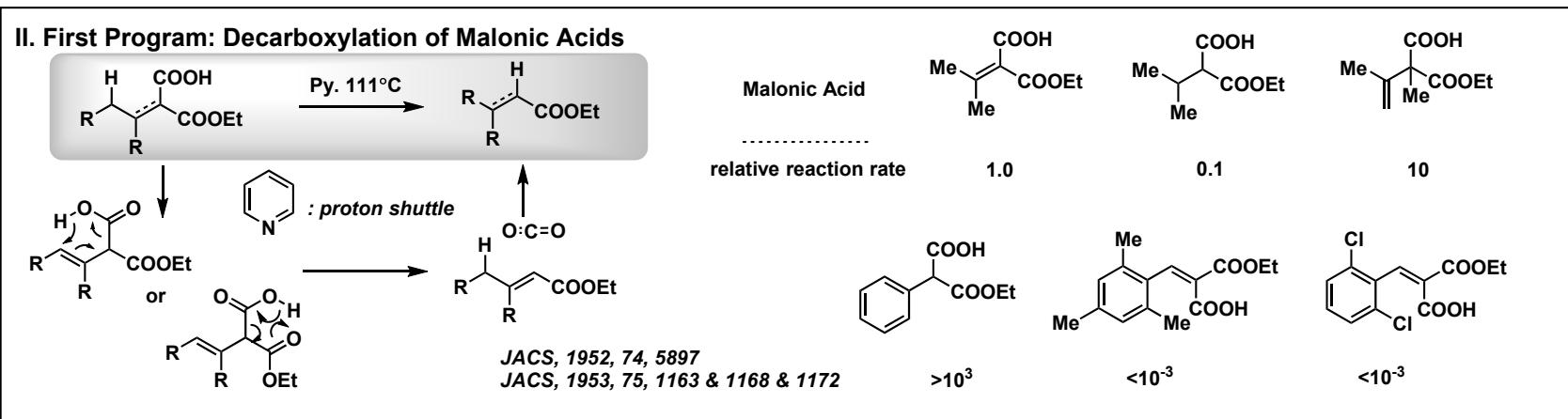
Dr. Carl Shipp Marvel
"Speed Marvel"
1892 - 1988

I. Doctoral work: Penicillin

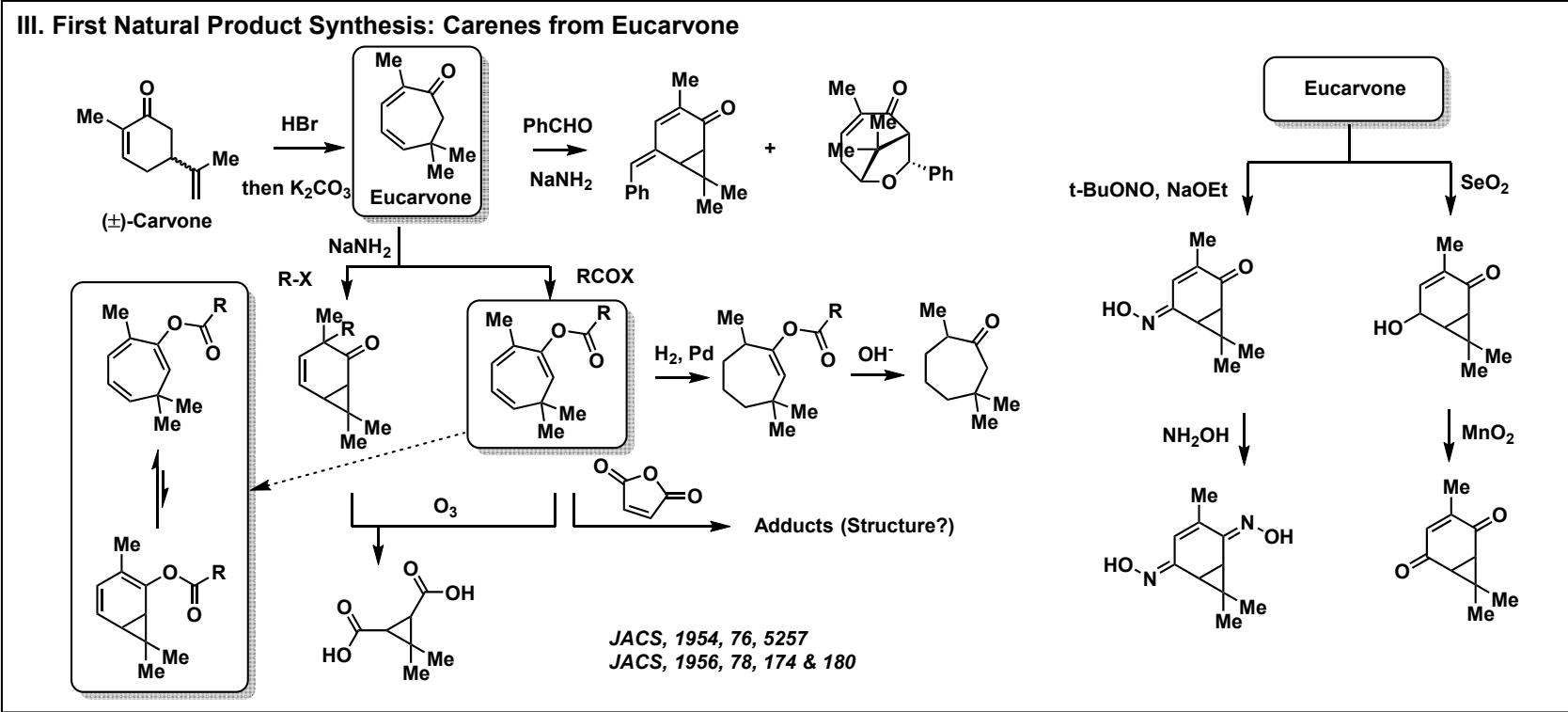


JACS, 1951, 73, 4756
JACS, 1952, 74, 4555

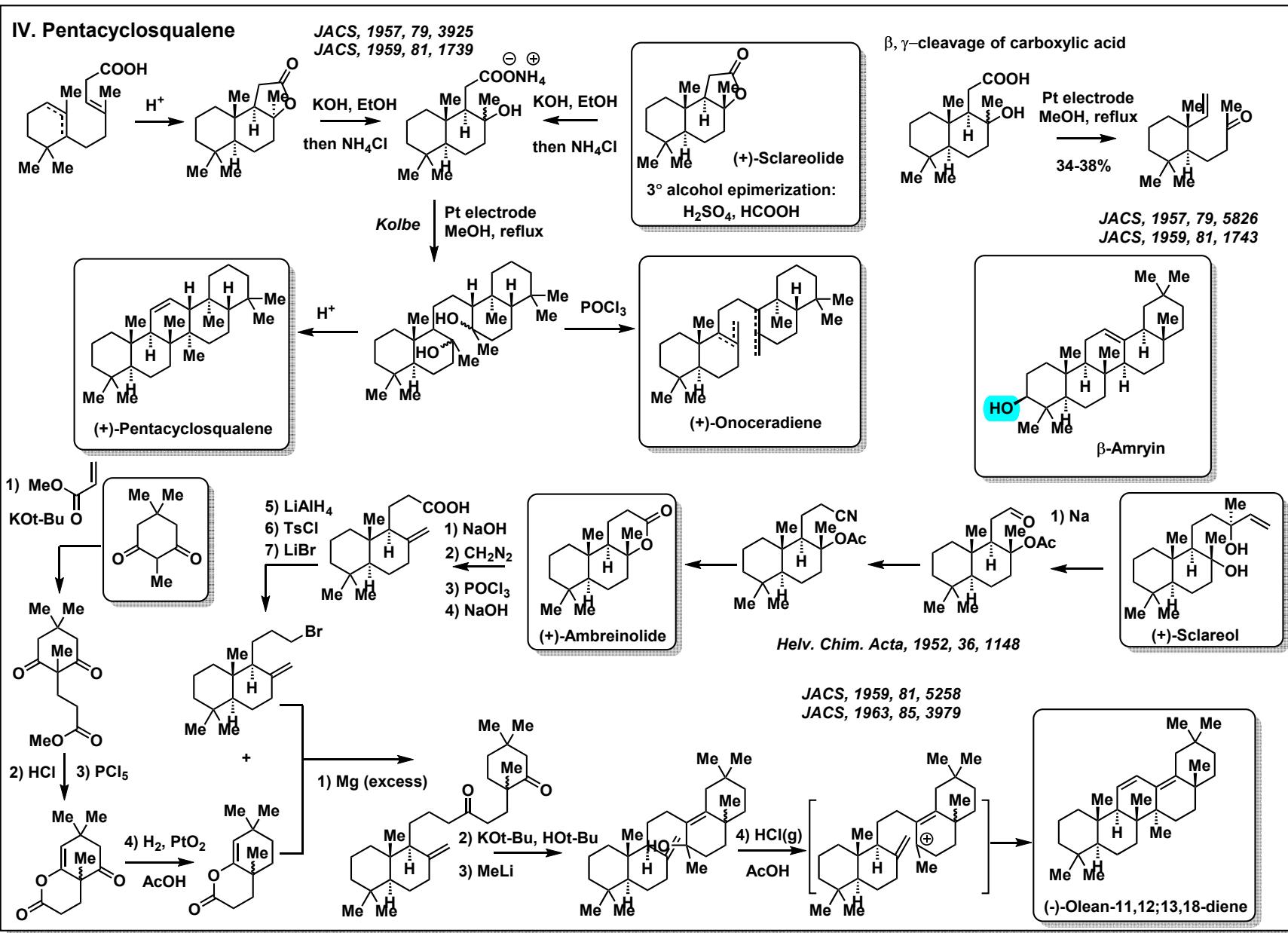




Dr. Gideon A. Fraenkel
Ohio State Univ.



Dr. Howard J. Burke
Upjohn (Pfizer)

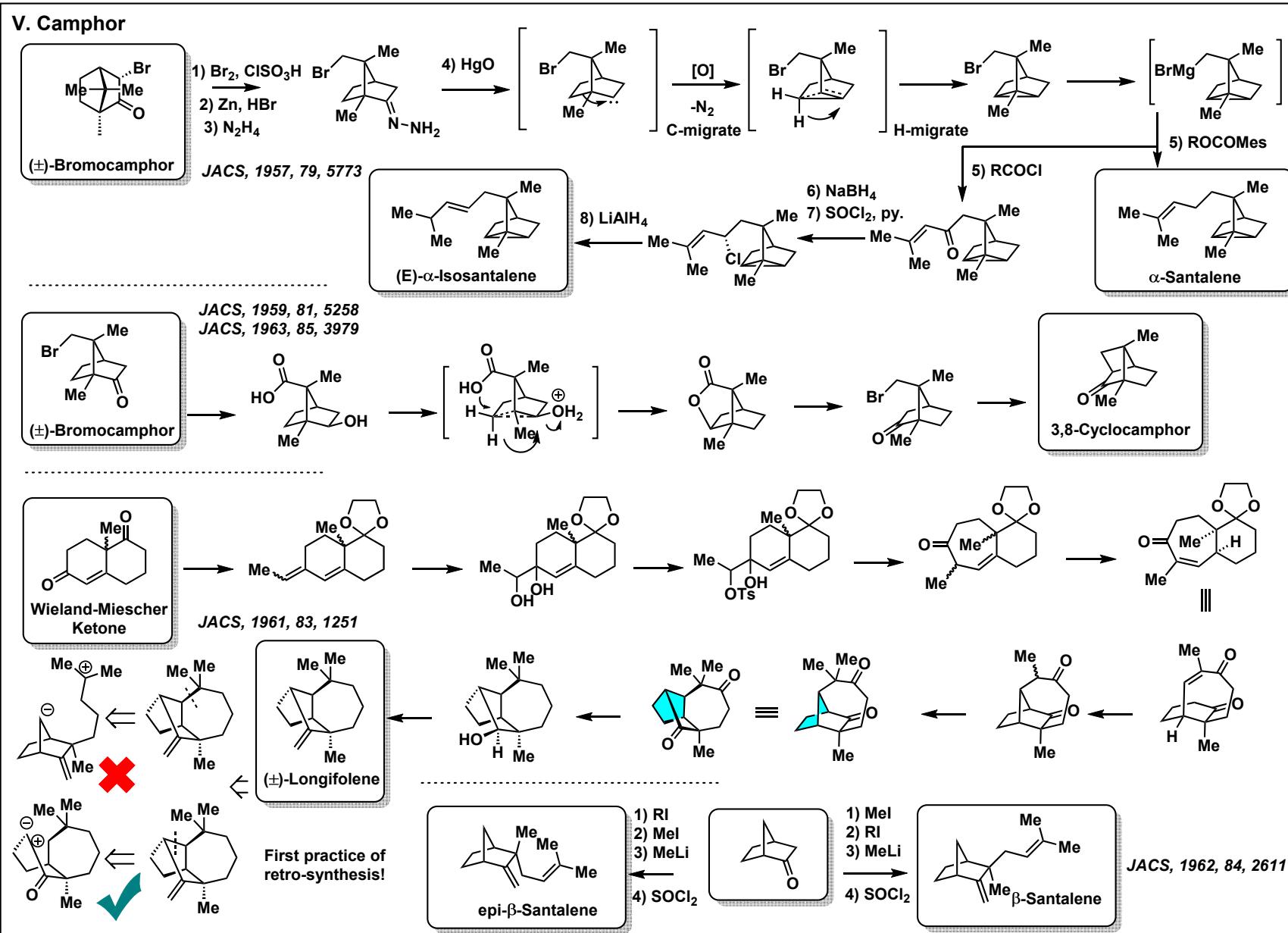


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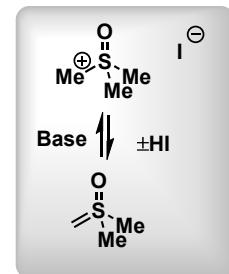
Dr. Ronald R. Sauers
Rutgers Univ.

• Direct introduce of -OH?

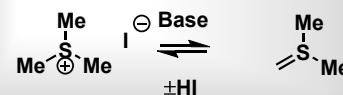
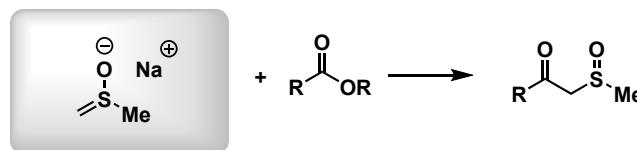
• Mechanism of cationic cyclization?



VI. Sulfonyl Carbanion (Corey-Chaykovsky Reaction)



JACS, 1962, 84, 866 & 867 & 3782
 TL, 1963, 4, 169
 JOC, 1963, 28, 254 & 1128



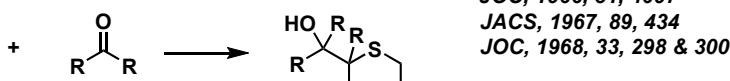
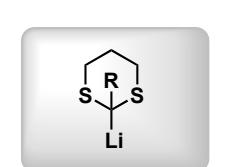
JACS, 1964, 86, 1639 & 1640 & 1899
 JACS, 1965, 87, 1345 & 1353
 TL, 1965, 6, 793 & 801

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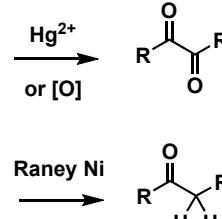
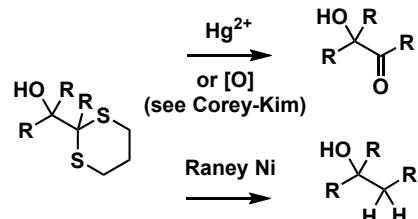
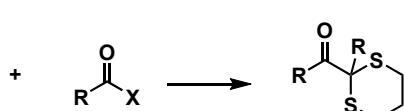
Dr. Michael Chaykovsky
 US Navy & NIH

- Mechanism of light induced rearrangement?

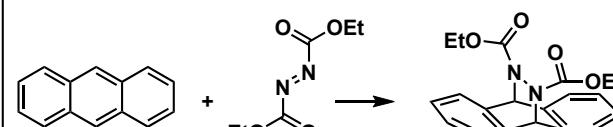
VI. Li-Thiane Umpolung (Corey-Seebach Reaction)



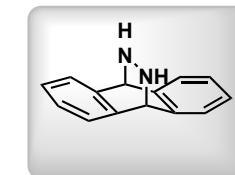
ACIE, 1965, 4, 1075
 JOC, 1966, 31, 4097
 JACS, 1967, 89, 434
 JOC, 1968, 33, 298 & 300



VII. Diimide



TL, 1961, 2, 347
 JACS, 1961, 83, 2957
 JACS, 1962, 84, 685



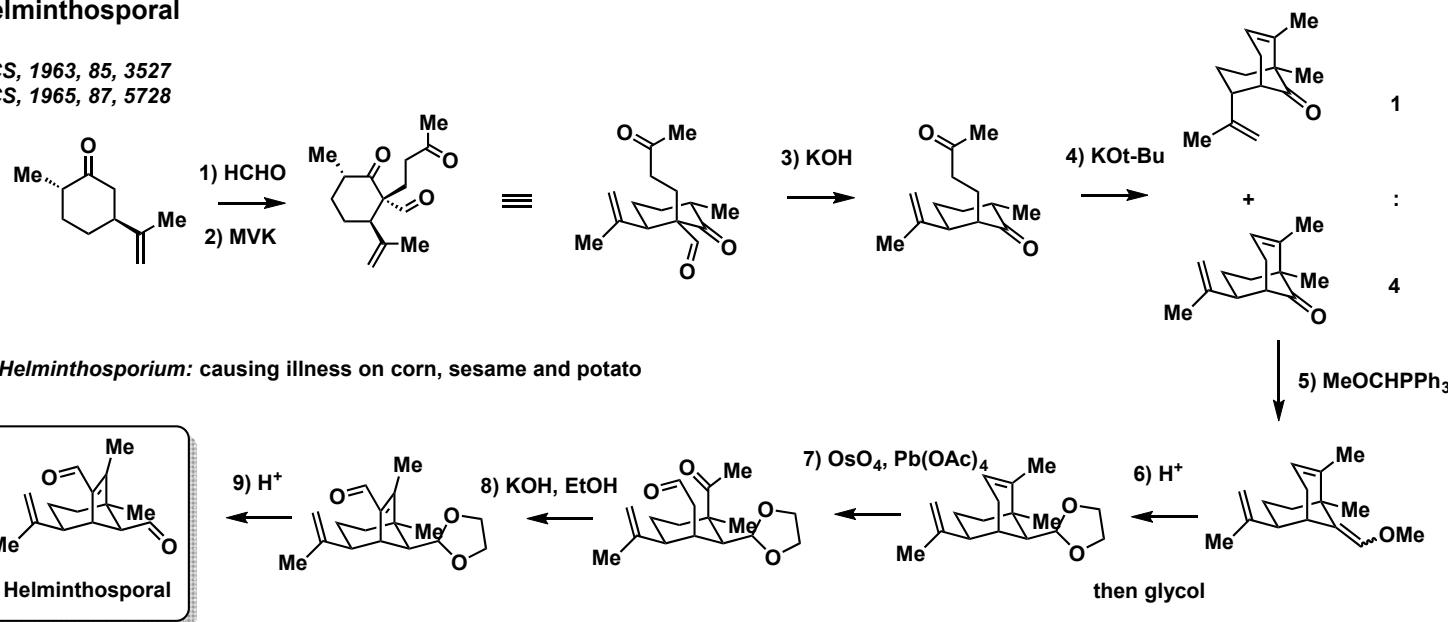
- generate N_2H_2 *in situ*
- white solid (relatively stable)



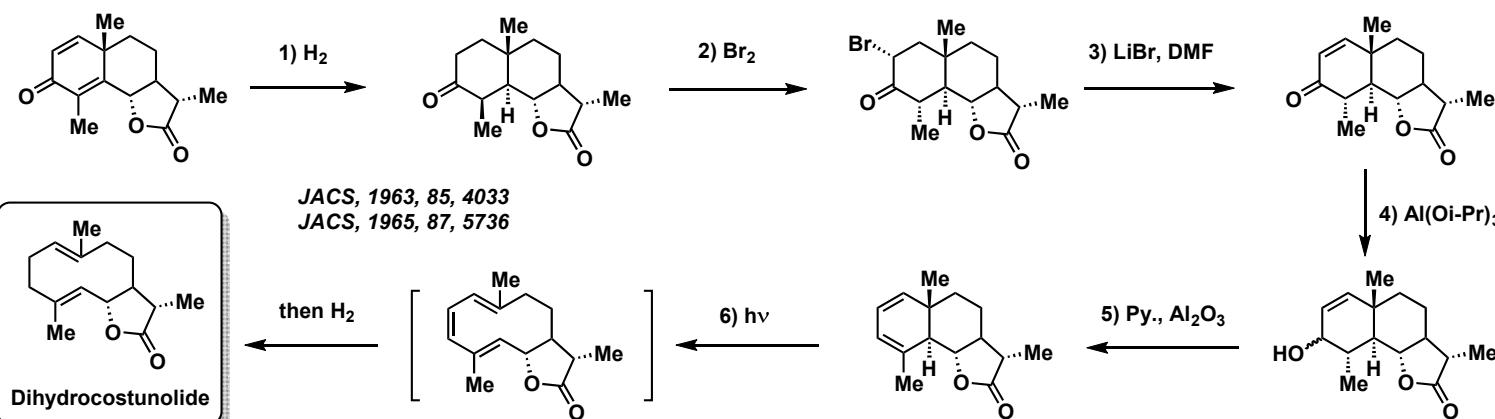
Dr. Dieter Seebach
 ETH Zurich

VIII. Helminthosporal

JACS, 1963, 85, 3527
JACS, 1965, 87, 5728

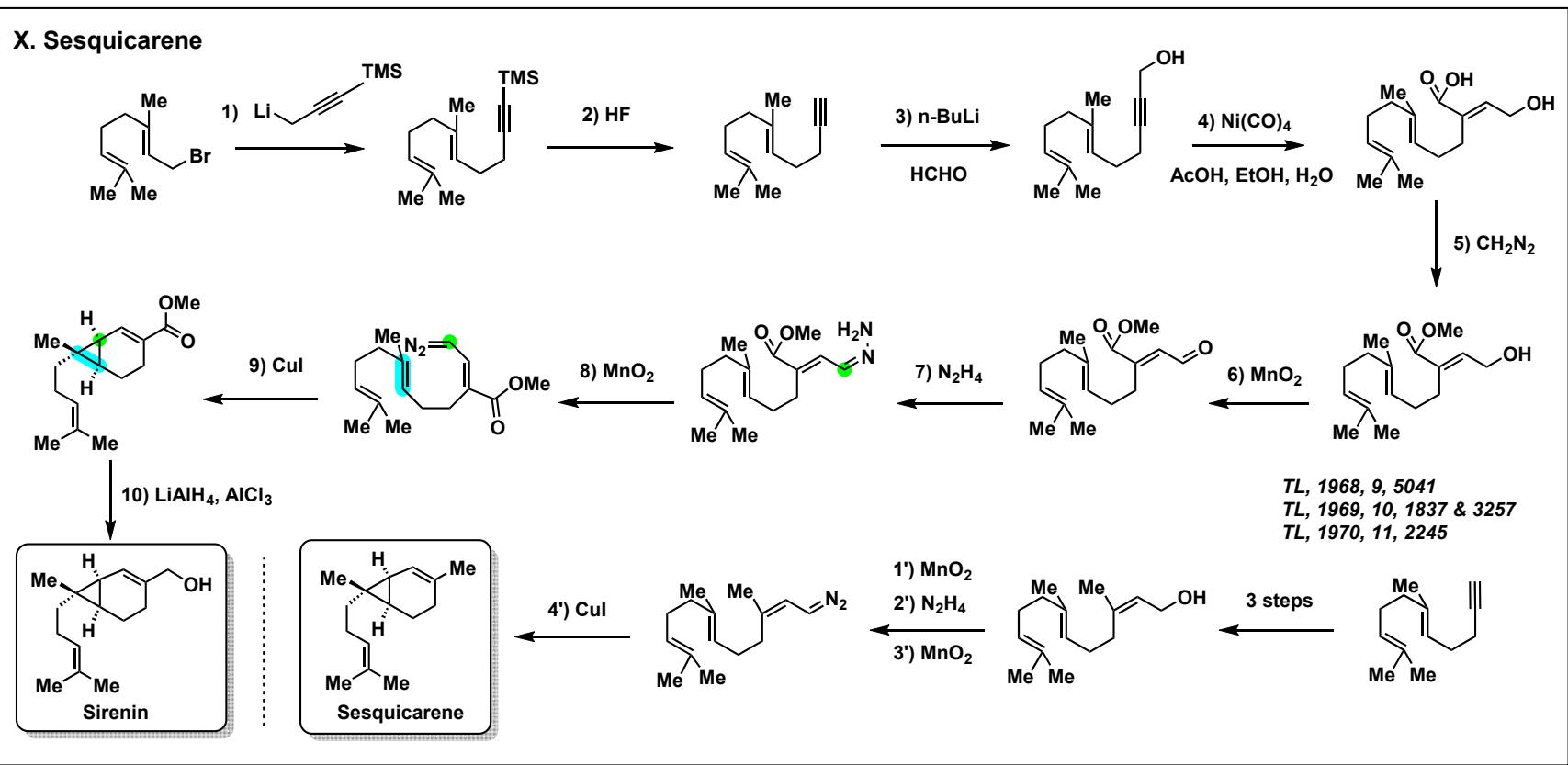


Dr. Shigeo Nozoe
Hokkaido Univ.
(son of Dr. Tetsuo Noezo)

IX. Dihydrocostunolide

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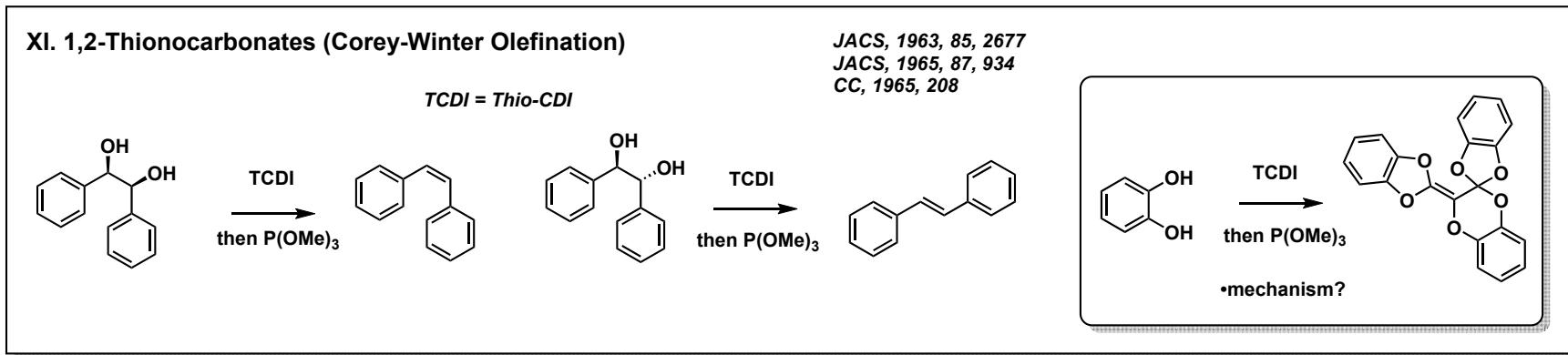
Dr. Alfred G. Hortmann
Washington Univ.
St. Louis



Dr. Herbert A. Kirst
Eli Lilly & Dow



Dr. Kazuo Achiwa
Univ. Shizuoka



Dr. Roland A. E. Winter
Univ. Dortmund