

2014

The Betulin Project Introduction 2014 - Accompanying Slide Show

<https://hdl.handle.net/2144/12965>

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The Betulin Project – Fall Semester CH 203, 2014 Boston University

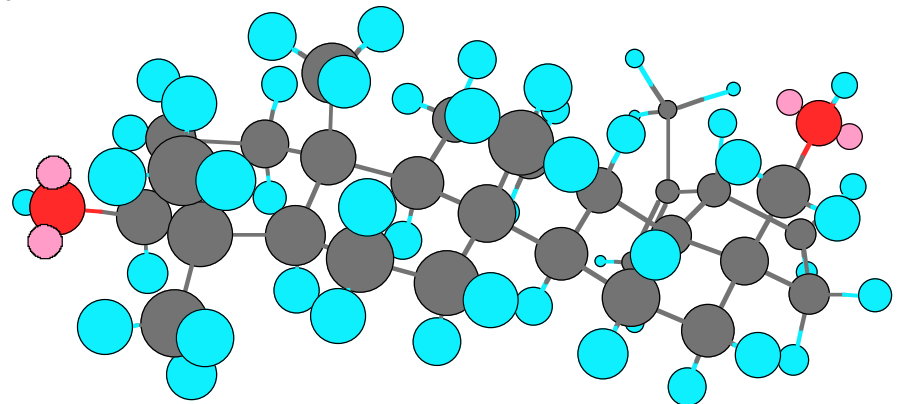
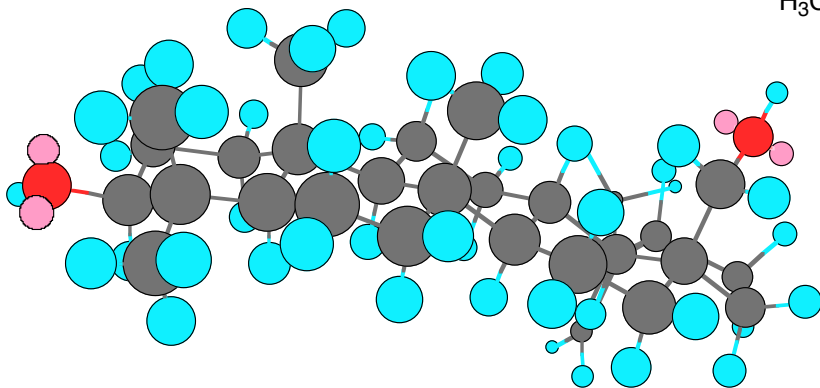
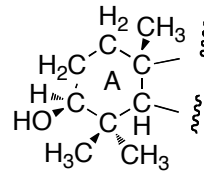
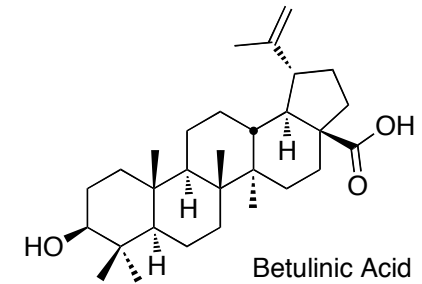
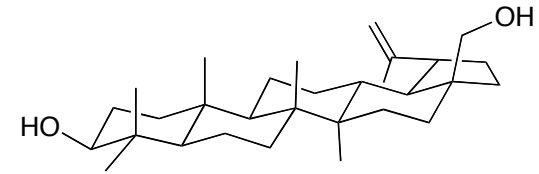
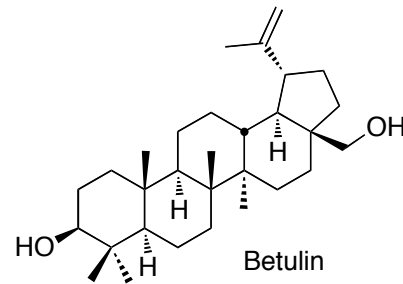
Instructor: Prof. John K. Snyder

Laboratory Fellow: Dr. Ya Zhou, PFF

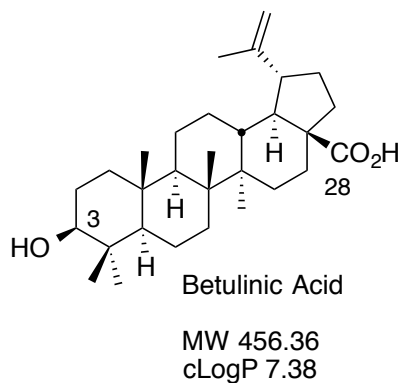
Betulin Group Meetings – Thursdays, 3 pm

Betulin Laboratory: Alternate Fridays, 1 - ? pm

Betulin: Protective Compound from White and Paper Birch

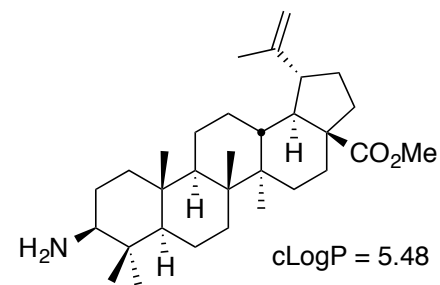
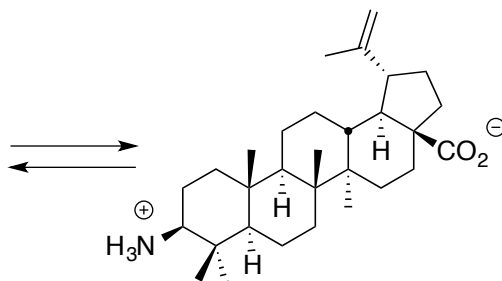
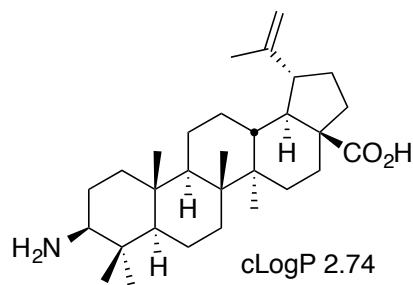


Anti-Melanoma – Betulinic Acid



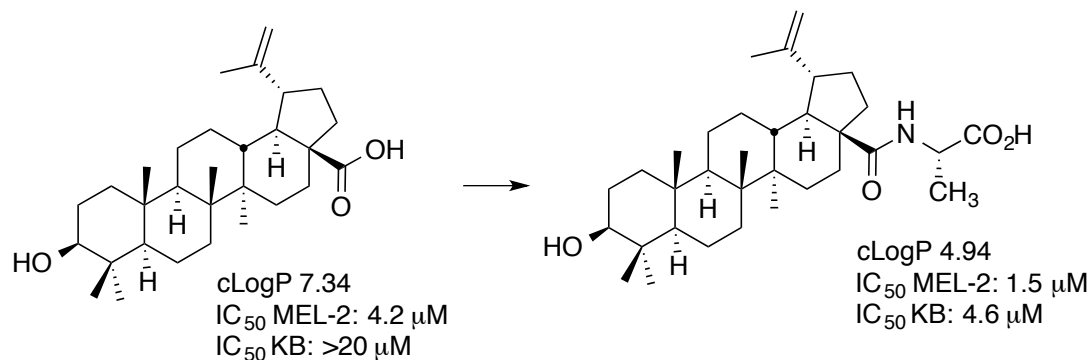
Lipinski's Rule of Five

- 1) No more than 5 Hydrogen Bond Donors (N-H and O-H)
- 2) No more than 10 Hydrogen Bond Acceptors (all N's and O's)
- 3) MW less than 500
- 4) cLogP = 5 or less

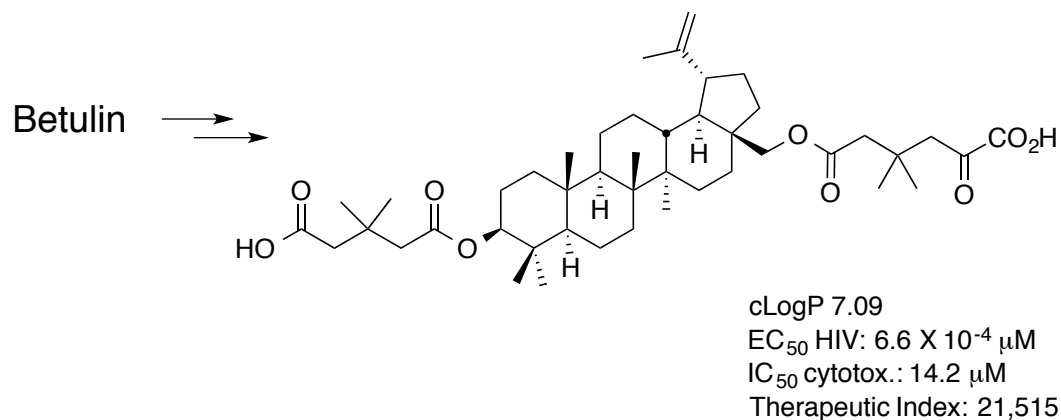
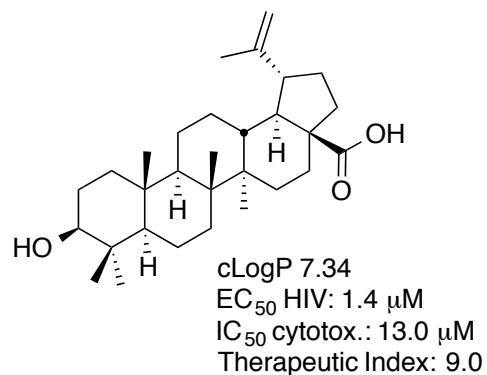


Betulinic Acid Derivatives

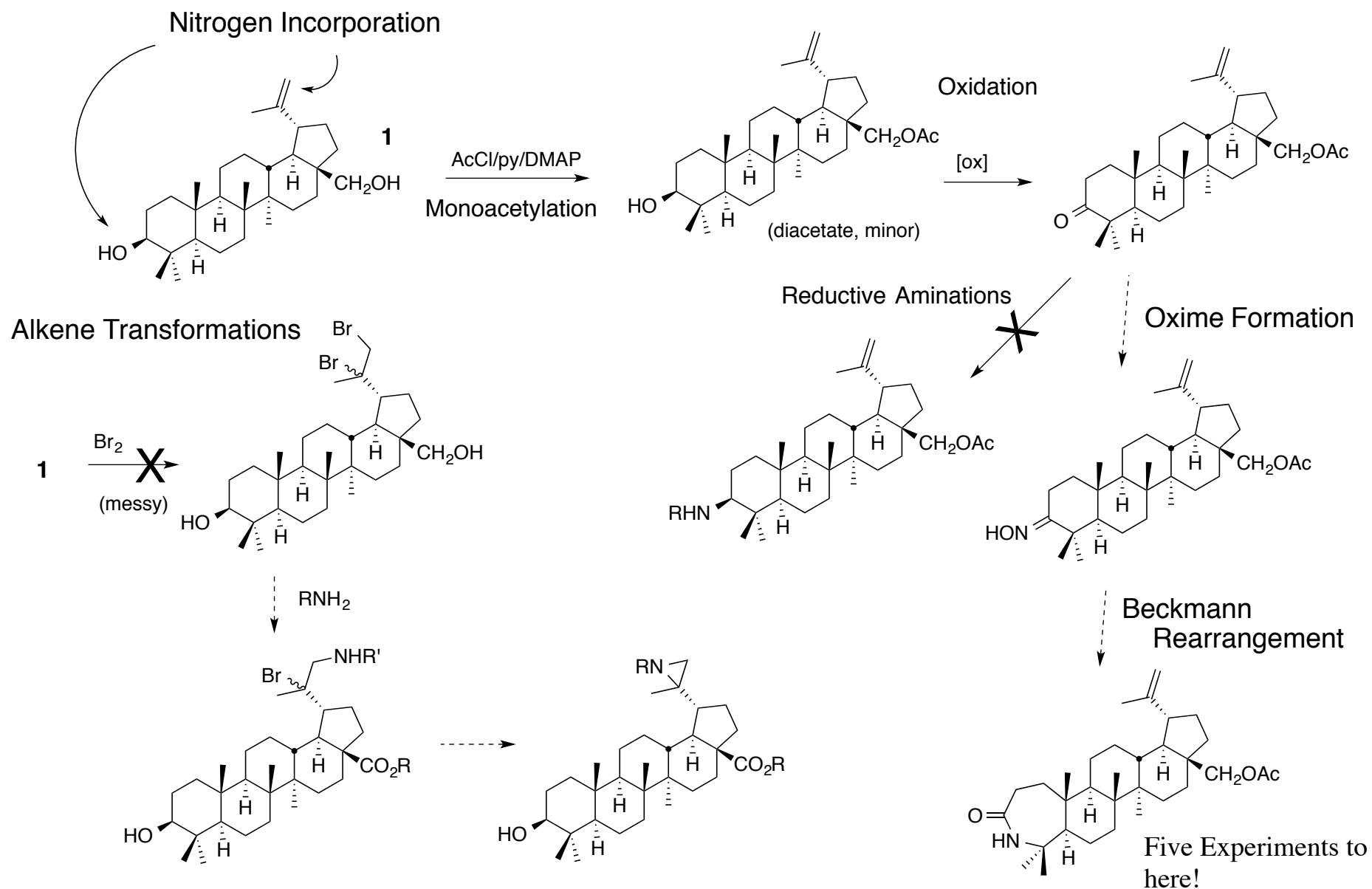
Anti-Melanoma



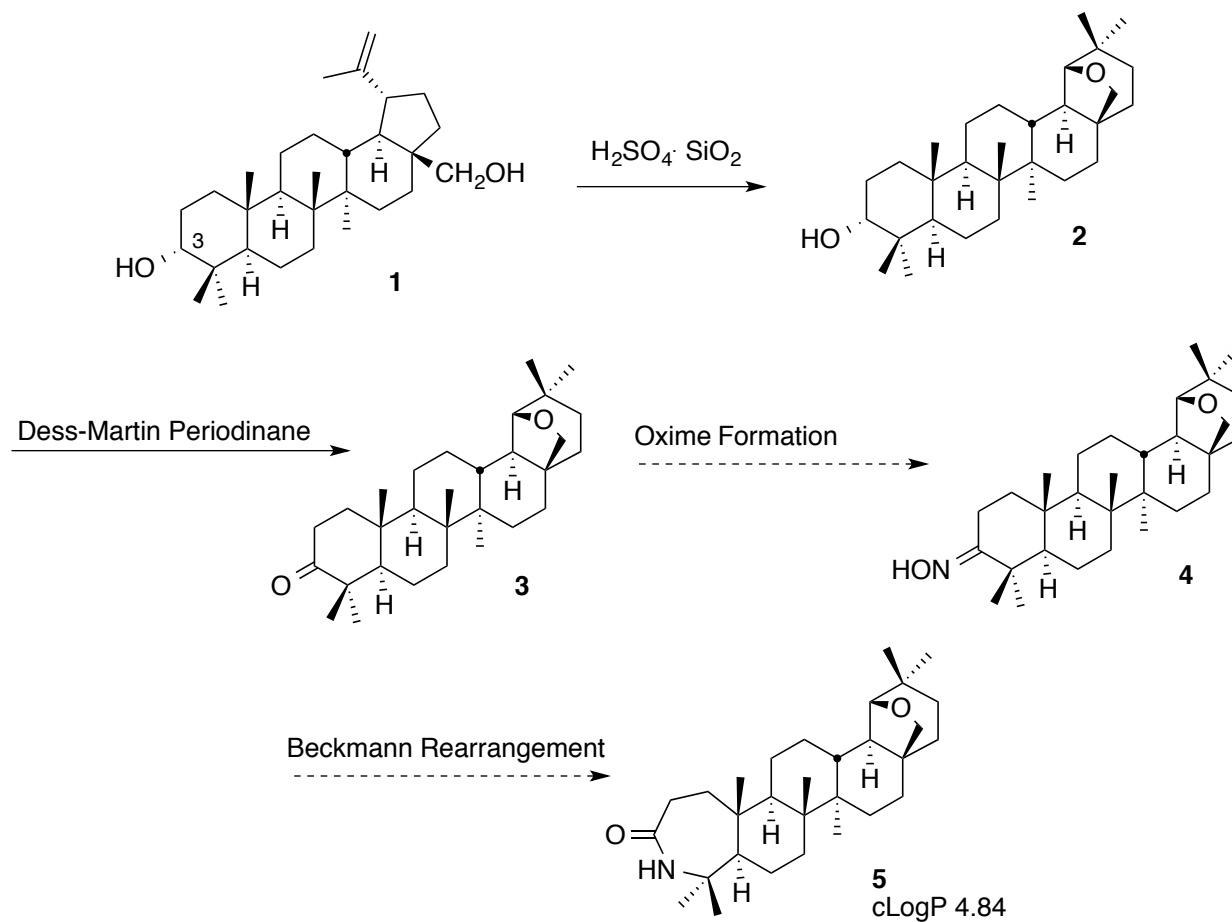
Anti-HIV



Last Year's Progress



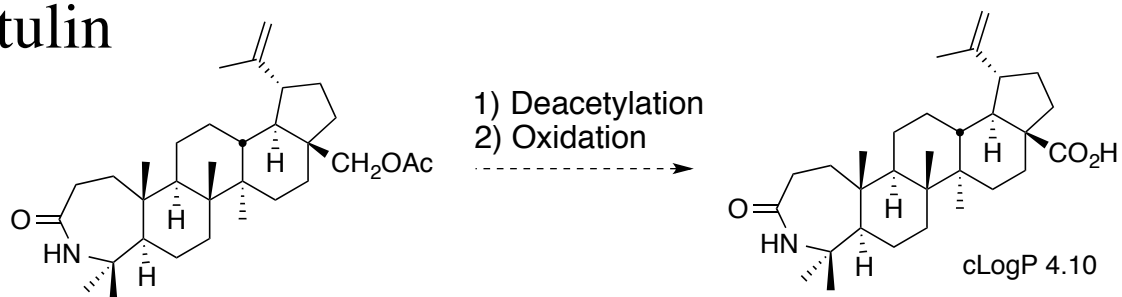
Allobetulin Analogues



Five Experiments to here!

Ultimate Targets

From Betulin



From Allobetulin

