

Carboxylic Acids & Derivatives

February 21, 2020

- The general addition-elimination mechanism and factors influencing reactivity.
- Nitrile hydrolysis under basic and acidic conditions.
- Preparation and reactions of acid chlorides.
- Reactions of acid anhydrides.
- The chemistry of esters and lactones.

110b Teaching Fellows: Felipe Becerril, Christina Beck, Isabelle Cheng, Junha Gu, Nathalie Hong, Shy Lavasani, Allison Liu, Casey Morrison, Jerusalem Nerayo, Eric Tang, Baili Zhong, Martín Acosta Parra.

O'Leary office hours: T/Th 9:30-10:00 am, SN 208.

Robbins Lectures Next Week! Professor Geri Richmond, University of Oregon. Topic: "The Importance of Science in the Future of a Healthy Planet." Lectures: 8:00 PM Monday (public lecture), 11:00 AM Tuesday (Environmentally Important Processes at Water Surfaces), 4:30 PM Wednesday (Oil on Water: Calming the Seas but Not the Science), 4:30 PM Thursday (Nanoemulsions). All lectures in SN Auditorium.

O'Leary's evening review session: Wednesdays 7:00 PM, SN Aud. **Course website:** <http://pages.pomona.edu/~djo04747/110/>

Suggested Problems for Exam 2. 10e: 16.20, 24, 30, 33, 35, 41, 44, 45, 47. 11e: 16.23, 27, 33, 36, 38, 44, 47, 48, 50. 10e/11e: 17.20, 17.28, 17.31, 17.33, 17.35, 17.38, 17.41, 17.42, 17.47.

The Pomona College Chemistry Department Presents
THE 58TH ROBBINS LECTURE SERIES

Geraldine Richmond

Presidential Chair in Science and Professor of Chemistry, University of Oregon

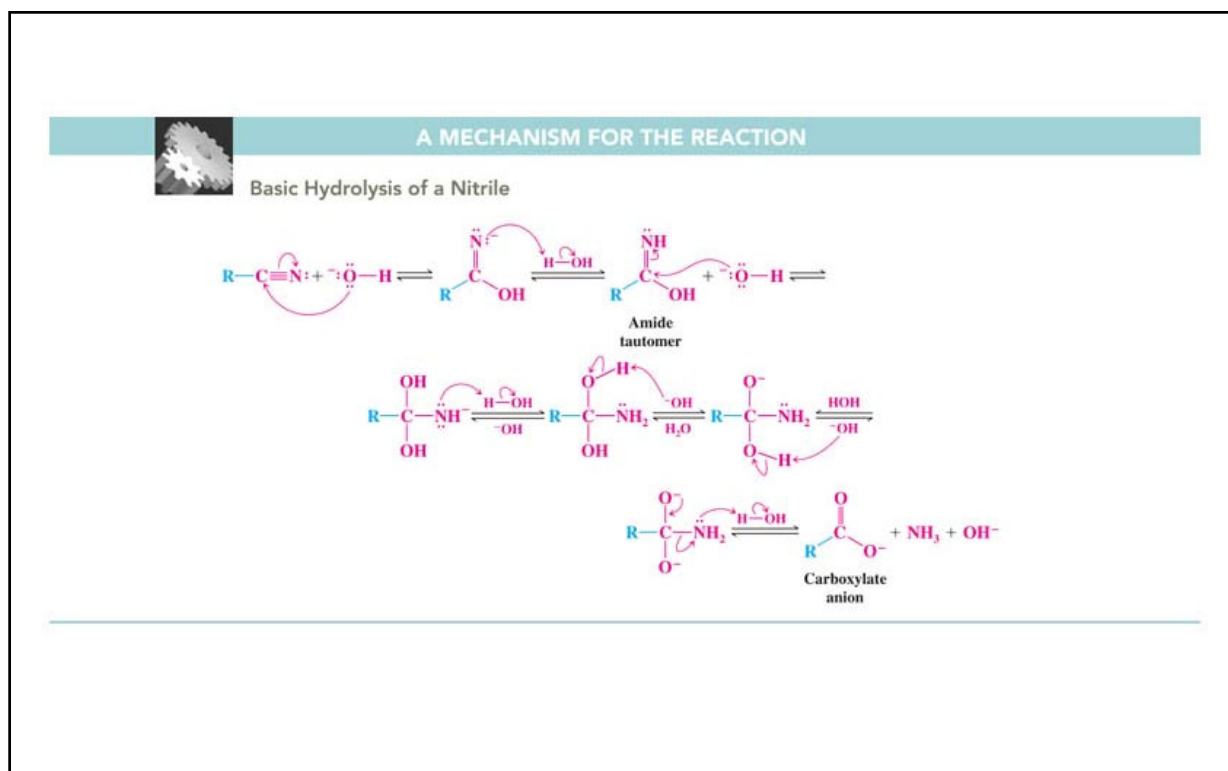
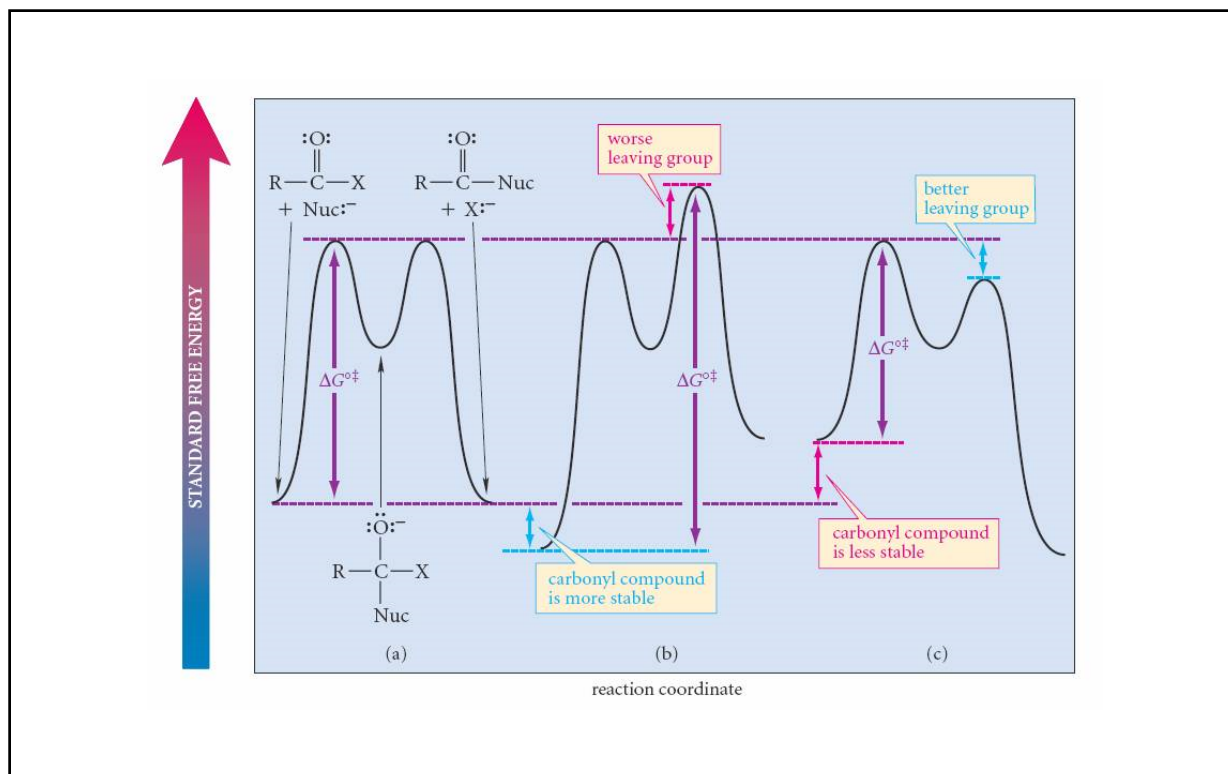
"The Importance of Science in the Future of a Healthy Planet"

February 24 - 27, 2020 Seaver North Auditorium / 645 N. College Avenue

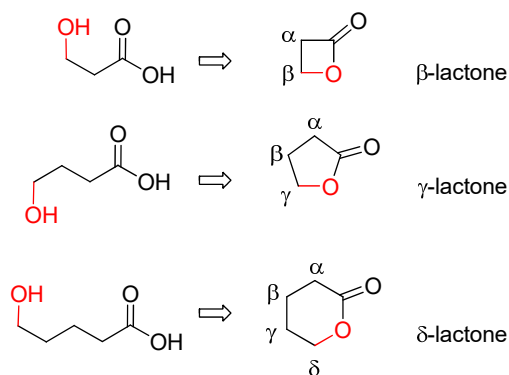
- **MONDAY, FEBRUARY 24, 2020 AT 8 P.M.**
The Importance of Global Scientific Engagement
- **TUESDAY, FEBRUARY 25, 11 A.M.**
Surf, Sink or Swim: Understanding Environmentally Important Processes at Water Surfaces
- **WEDNESDAY, FEBRUARY 26 AT 4:30 P.M.**
Oil on Water: Calming the Seas but Not the Science
- **THURSDAY, FEBRUARY 27 AT 4:30 P.M.**
Mulling over Nanoemulsions: Interfacial Molecular Structure, Assembly and Stabilization



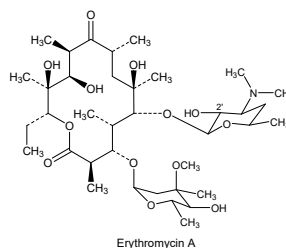
All lectures are open to the public. For more information, visit chemistry.pomona.edu, or call (909) 271-6448.



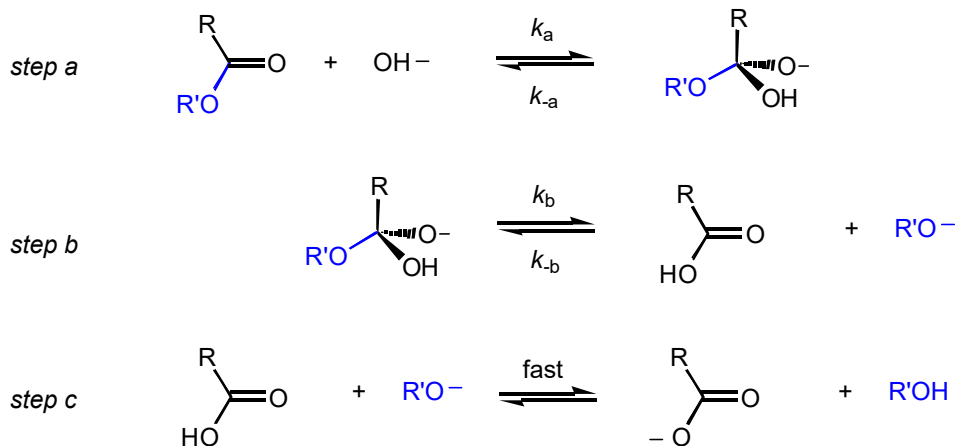
lactones are cyclic esters



a macrocyclic lactone



Base-Promoted Hydrolysis of Esters



If RO^- is a better leaving group than HO^- , then the k_b step is fast, k_a is rate determining.

