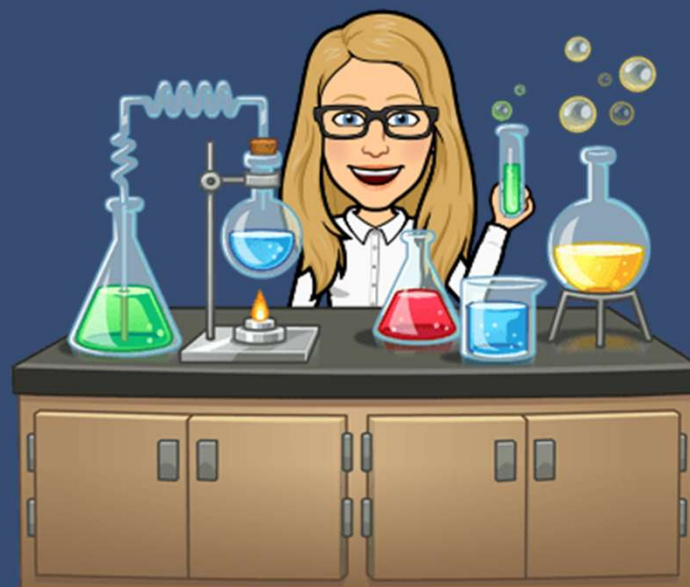


For voting, go to: <https://pollev.com/lauriestarke263>  
or text LAURIESTARKE263 to 37607 to join poll



Dr. Laurie S. Starkey  
Cal Poly Pomona

# CHM 3140 Organic Chemistry I

## Announcements 5/6/2025

# Today's Topic:

## Radical Reactions (Ch. 10)

### Chapter 9

✓ Watch

✓ Read

✓ Practice

#### Daily To-Do

#### Flipped Lectures

##### Step 1

- Skim through Klein Chapter 10, sections 10.1-10.7, 10.13).
- Watch flipped lecture
- Work through SkillBuilders 10.1 - 10.8
- Work on suggested Chapter 10 EOC problems on WileyPLUS (auto-graded) and/or on paper (self grade, using Solutions Manual).

- Free-Radical Halogenation  
50 minutes, skeleton notes  
pages 10-1 to 10-4

- Radical Alkene Additions (HBr/ROOR) and Synthetic Strategies  
15 minutes, skeleton notes  
page 10-4

- Real-World Radical Reactions  
15 minutes, skeleton notes  
page 10-5

# Video Lectures

## Free-Radical Halogenation [↗](#)



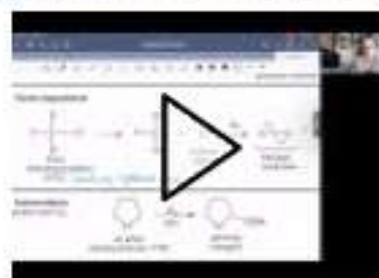
(50 minutes, pages 10-1 to 10-4)

## Radical Alkene Additions (HBr/ROOR) and Synthetic Strategies [↗](#)



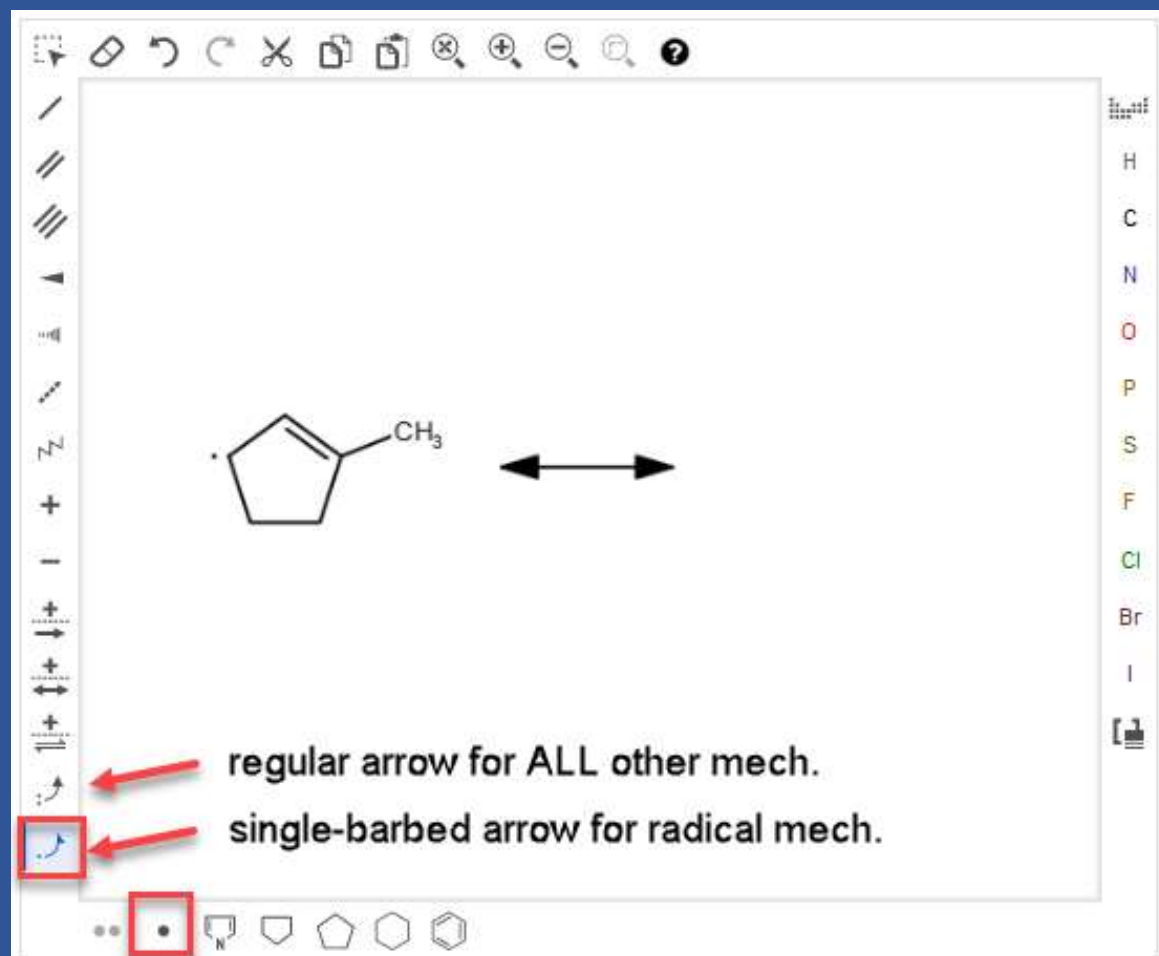
(15 minutes, page 10-4)

## Real-World Radical Reactions [↗](#)



(15 minutes, page 10-5, or watch Zoom session)

# Radical Mechanisms in WileyPLUS



# Ch. 10/11 Textbook Problems: work on paper for mechanism & synthesis problems!

## Suggested Ch. 10 problems \*Mechanisms and \*\*Synthesis (good to work on by hand, self-correct w/SSM)

24a-e	34a-f	45
25	35	46
26	36ab	47
27	38	48
28*	39	
29	40*	
30	42	
31	43	
33*	44	

## Suggested Ch. 11 problems (be sure to work on synthesis problems by hand – on paper!)

11a-?	20	29
12a-?	21a-e	30
13	22	31
14	23	32

# Final Exam is One Week from Today!

Week	Mon	Tues	Wed	Thurs	Fri
15	5/5	5/6 Ch. 10 #1	5/7	5/8 Ch. 11 #1	5/9
Finals (section)	5/12	<b>Tue. 5/13</b> 9:00–10:50 am (05) 3:00–4:50 pm (02) 5:00–6:50 pm (03)	5/14	5/15	5/16

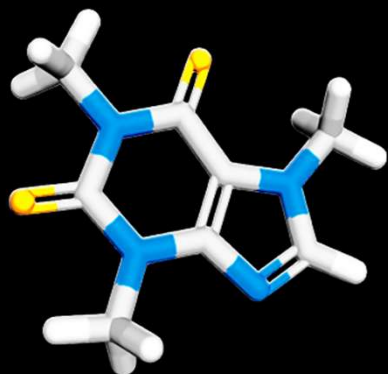
Final Exam Review 9 pm Sunday, 5/11 - [Worksheet](#)

***Cumulative Final Exam: Chapters 1-11 & 15***  
***Tuesday, 5/13***

***9:00–10:50 am (Section 05)***  
***3:00–4:50 pm (Section 02)***  
***5:00–6:50 pm (Section 03)***

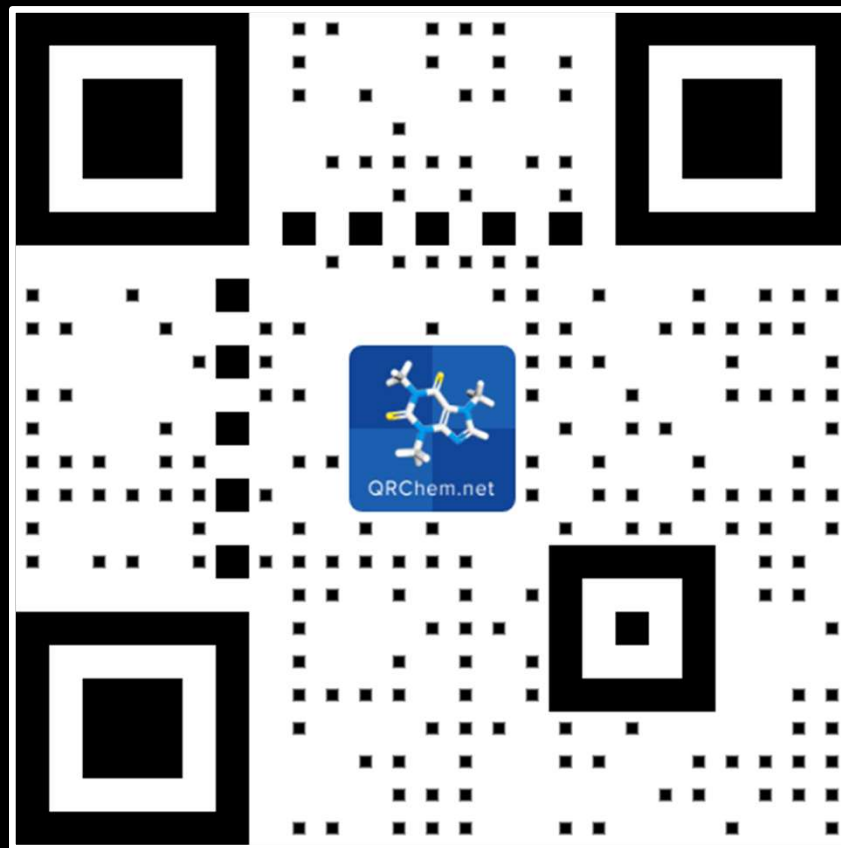
*Note: must take all exams with registered section*

# Molecule of the Day\*



QRChem.net

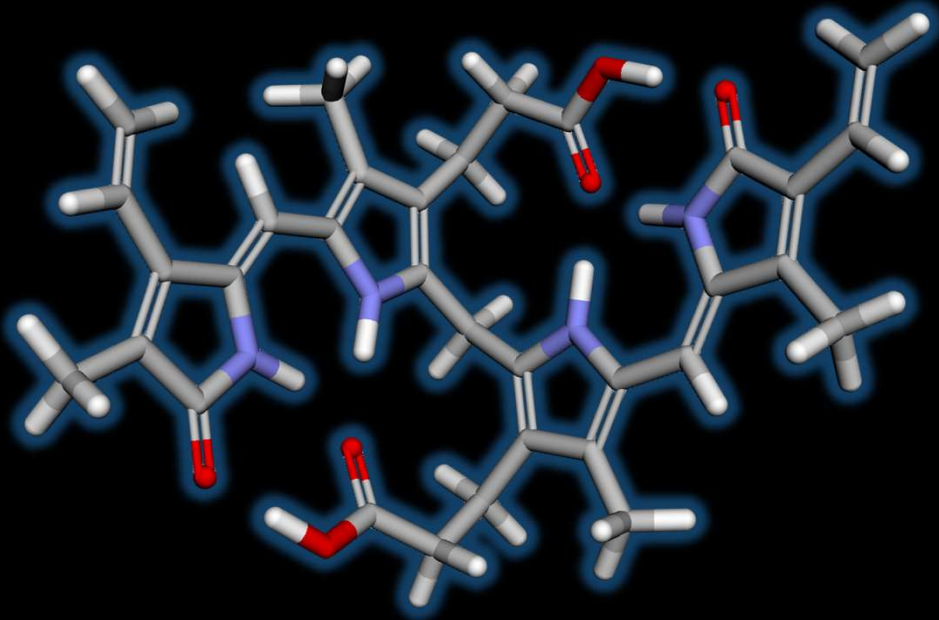
\*Courtesy of Dr. Neil Garg, UCLA



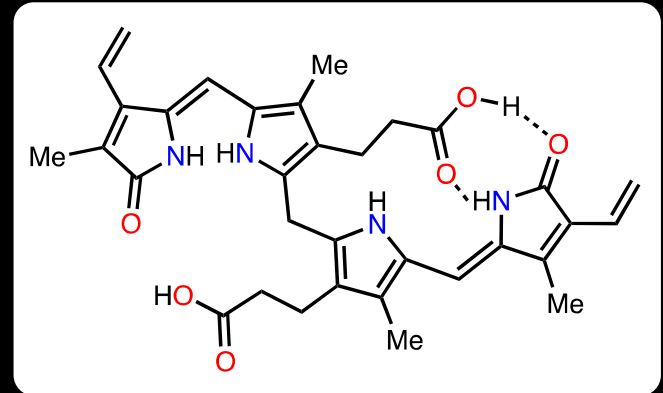
<https://bit.ly/2ScZroi>



# Bilirubin



A yellow pigment naturally produced by the body and decomposed by the liver



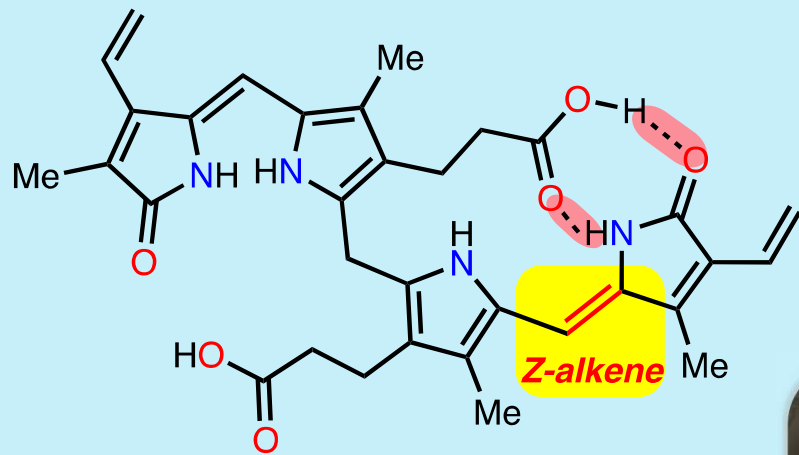
A dysfunctional (or not fully developed) liver can lead to buildup of bilirubin, resulting in a yellow discoloration in the skin called **jaundice**. >50% of babies are born with jaundice!





# Cure for jaundice: light therapy!

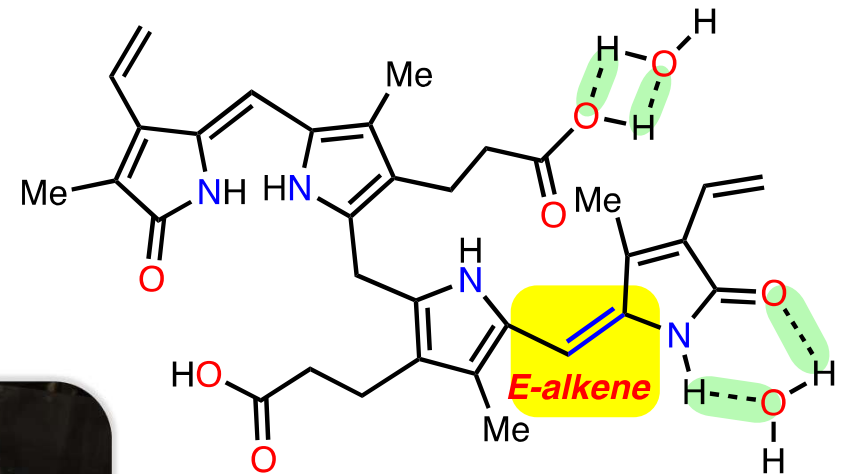
*Bilirubin*



hydrogen bonds to itself  
*insoluble*  
**JAUNDICE**

light

*Bilirubin photoisomer*



hydrogen bonds to water  
*soluble*  
**JAUNDICE CURED**

