The background features a series of concentric circles in light gray, some solid and some dashed, creating a ripple effect. A large, solid red rectangle is centered on the page, containing the text.

# Timothy F. Jamison

## Massachusetts Institute of Technology

Presented

By

Eliseo E. Quiroz

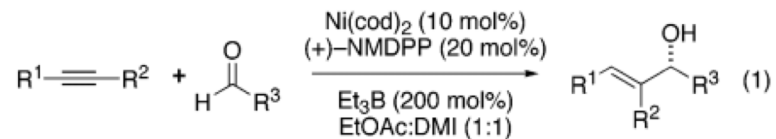
September 8, 2020

# Curriculum Vitae



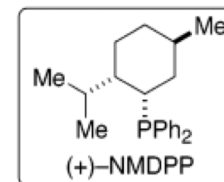
- Born and raised in San Jose, CA area
- Completed B.S. in Chemistry at U.C. Berkeley. Conducted undergraduate research with Henry Rapoport
- Completed Ph.D. at Harvard University under Stuart Shreiber. Stayed to post-doc with Eric Jacobsen
- Became Assistant Professor at MIT in 1999 then eventually full Professor.
- Currently is Assistant Provost at MIT

# Ni-Cat C–C Bond Formation

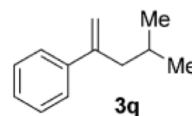
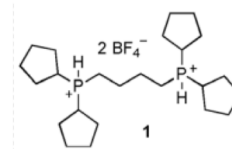
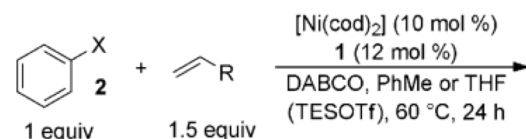


$R^1 = \text{Ar}$        $R^3 = \text{Ar}$   
 $R^2 = \text{Alkyl}$     Alkyl

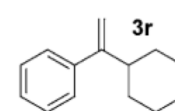
- 100% cis addition
- 90:10 to >95:5 regioselectivity
- up to 96% ee



▪ [J. Am. Chem. Soc. 2003, 125, 3442-3443](#)



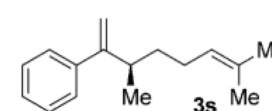
X = OTf: 99% r.r.: 29.9  
br/ln: 51:1



X = OTf:<sup>[b]</sup> 83% r.r.: 57.9  
br/ln: 81:1

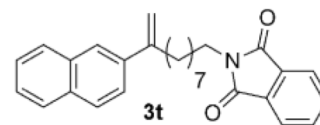
X = OMs:<sup>[b]</sup> 57% r.r.: 33.9  
br/ln: 55:1

X = OTs: 53% r.r.: 33.9  
br/ln: 92:1

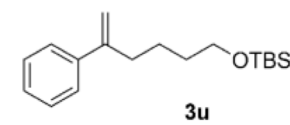


X = OTf:<sup>[b]</sup> 60% r.r.: 57.8  
br/ln: 107:1

X = Cl:<sup>[b]</sup> 49% r.r.: 43.0  
br/ln: 109:1



X = OTf:<sup>[b]</sup> 92% r.r.: 9.3 [23.2]<sup>[a]</sup>  
br/ln: 43:1

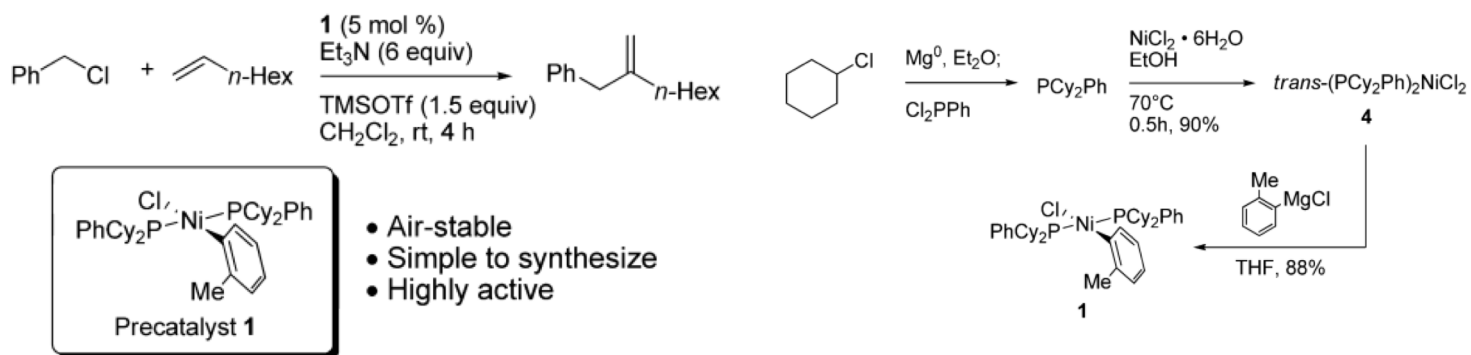


X = OTf: 79% r.r.: 35.6  
br/ln: 77:1

X = Cl: 63% r.r.: 29.8  
br/ln: 59:1

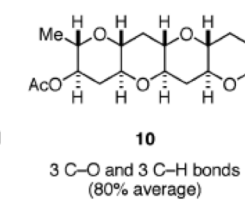
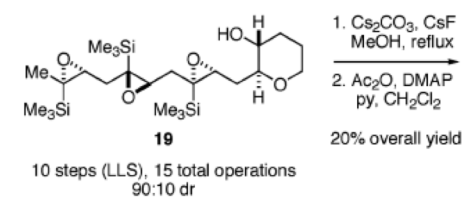
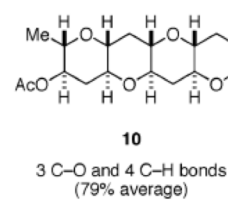
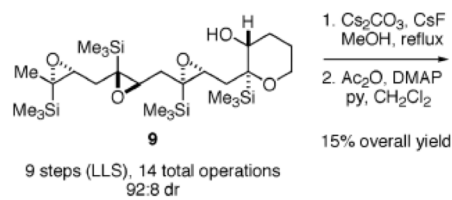
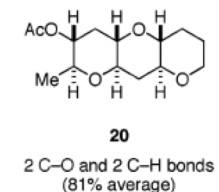
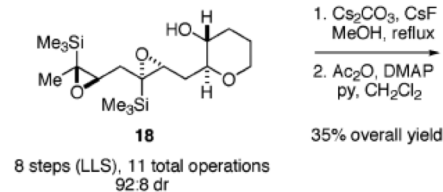
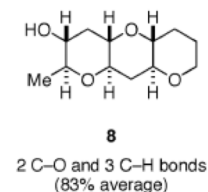
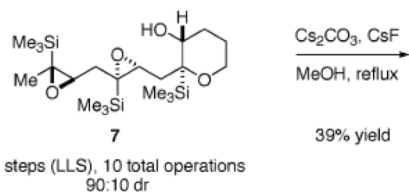
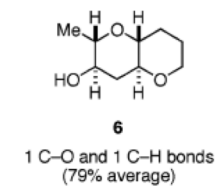
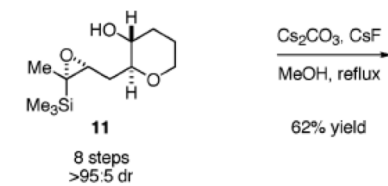
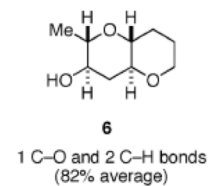
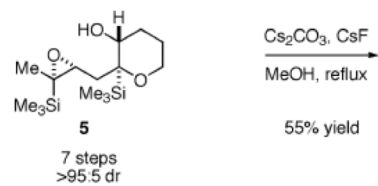
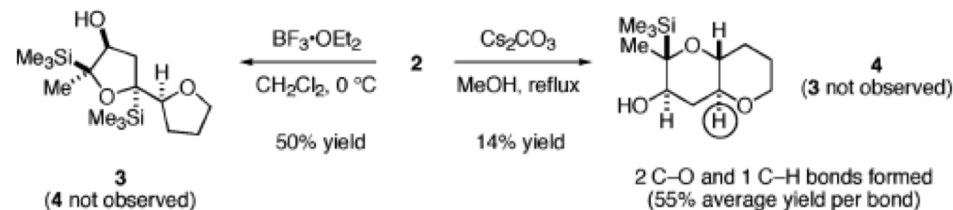
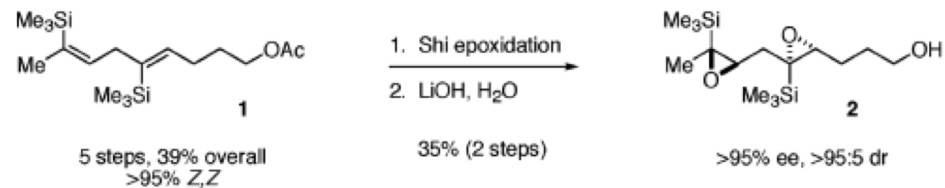
▪ [Angew. Chem. Int. Ed. 2014, 53, 1858-1861](#)

# Ni-Cat C–C Bond Formation

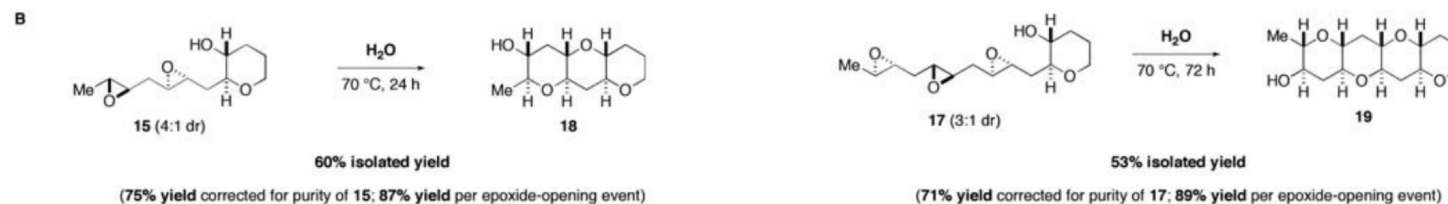
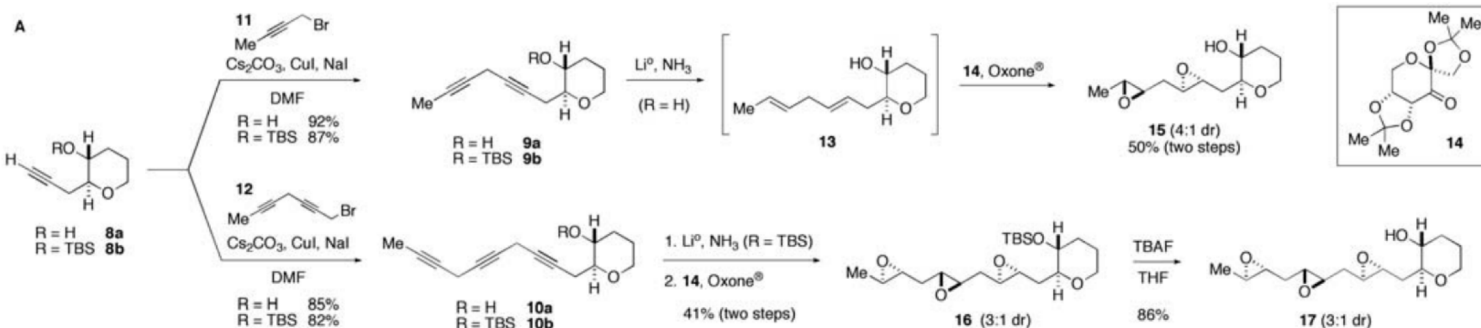


▪ [J. Am. Chem. Soc. 2013, 135, 1585–1592](#)

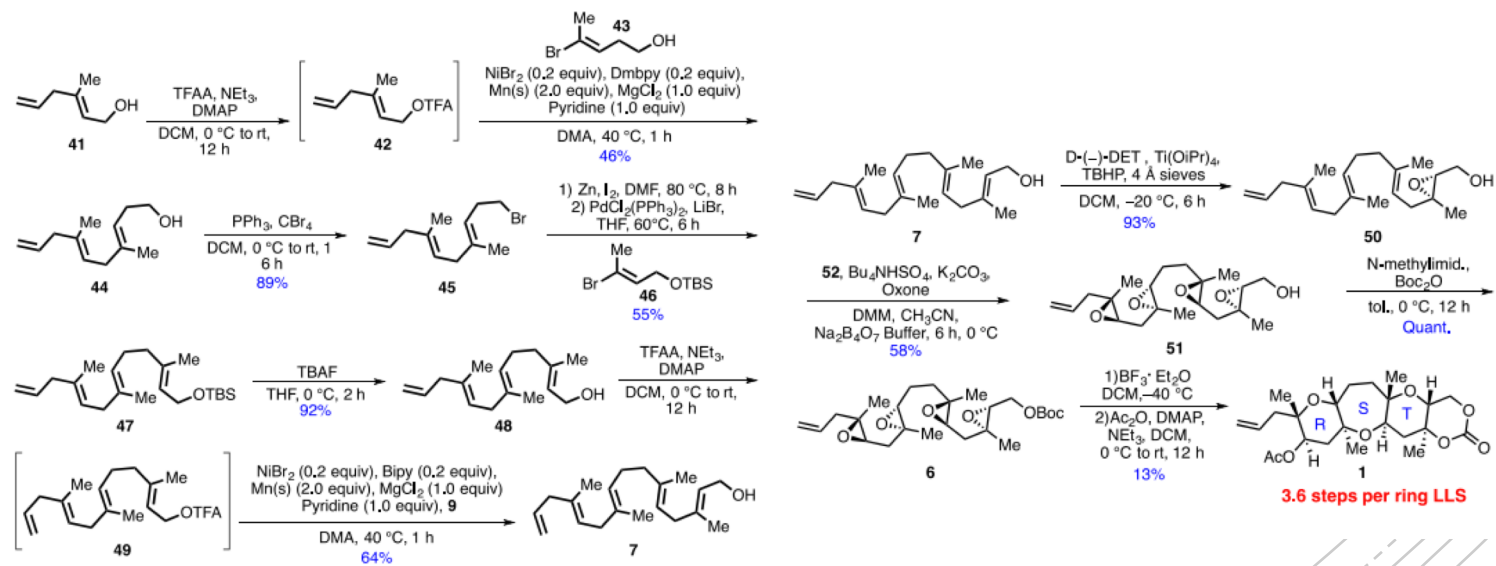
# Epoxide-Opening Cascades



# Epoxide-Opening Cascades

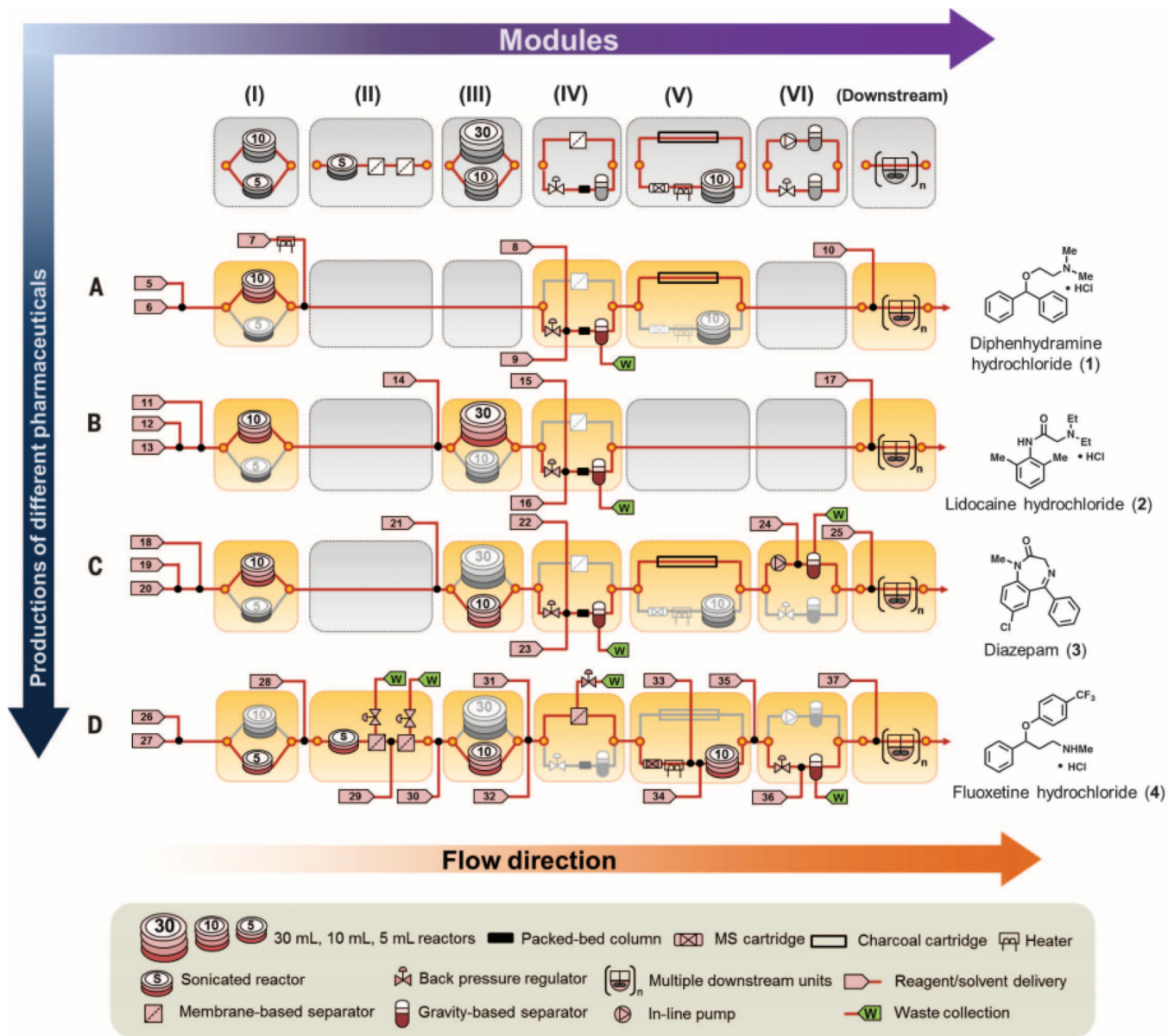


■ [Science 2007, 317,1189-1192](#)



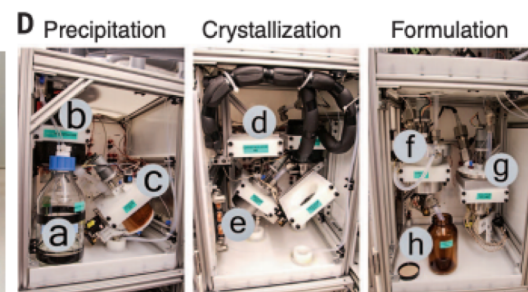
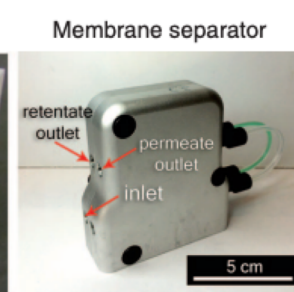
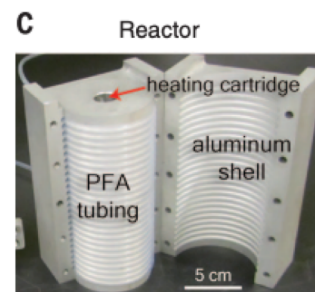
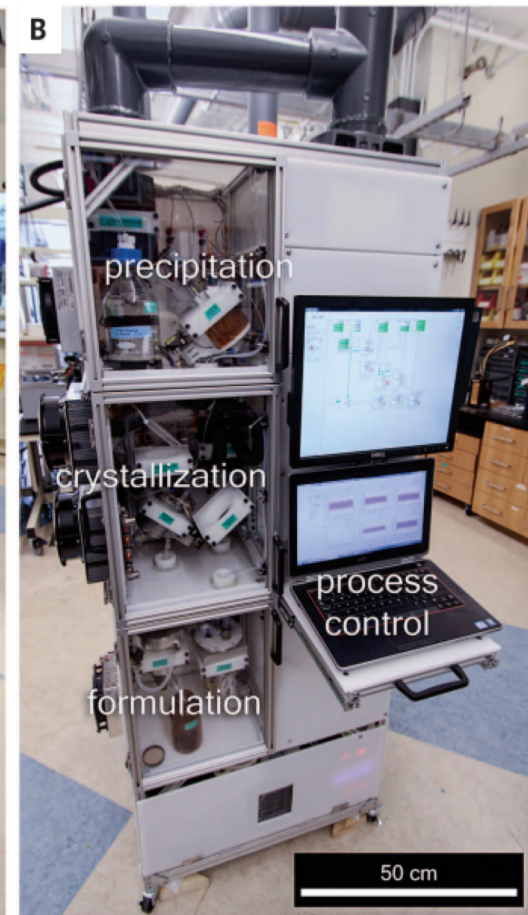
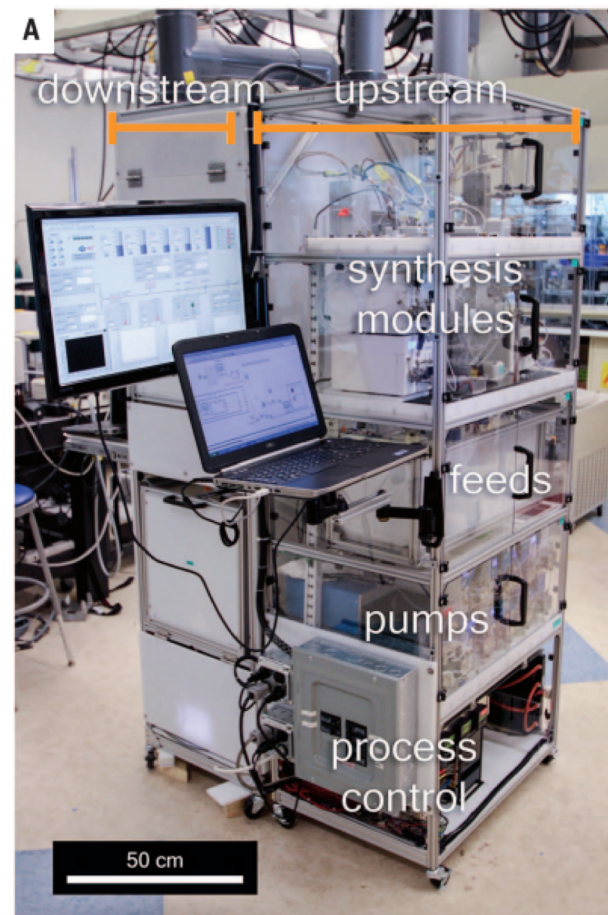
■ [Org. Lett. 2019, 21, 3606-3609](#)

# Flow Chemistry

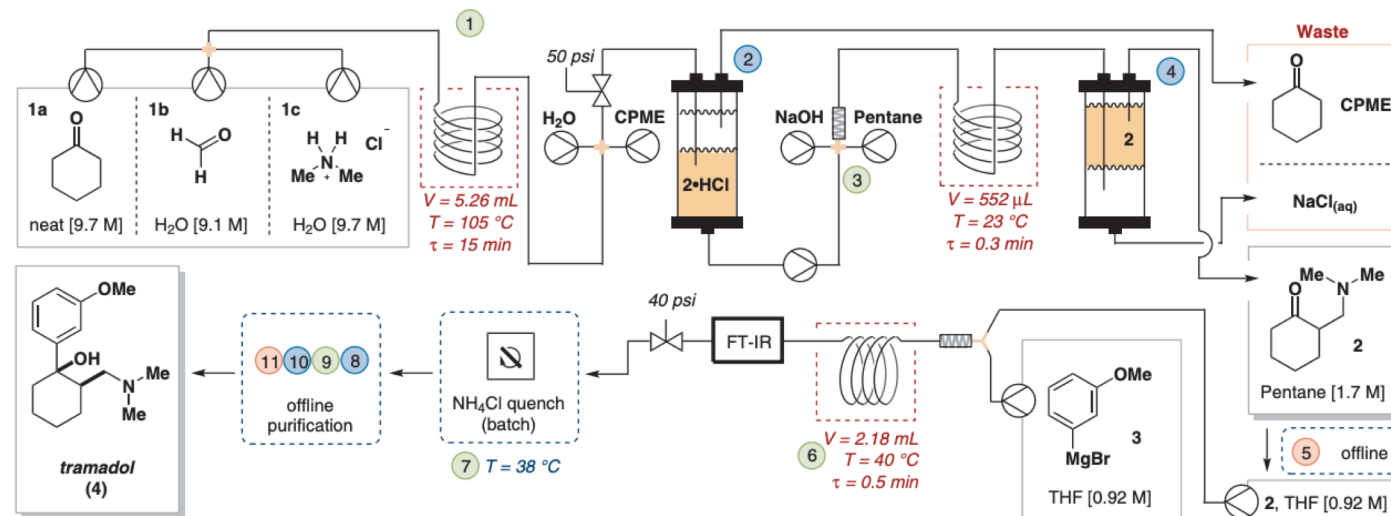


▪ [Science 2016, 352, 61-67](#)

# Flow Chemistry



# Flow Chemistry



The image features a central red speech bubble with a white outline and a small tail pointing downwards. Inside the bubble, the words "THANK YOU!" are written in a white, bold, sans-serif font. The background is white and decorated with several concentric circles of varying radii, some solid and some dashed, creating a subtle geometric pattern.

THANK YOU!