



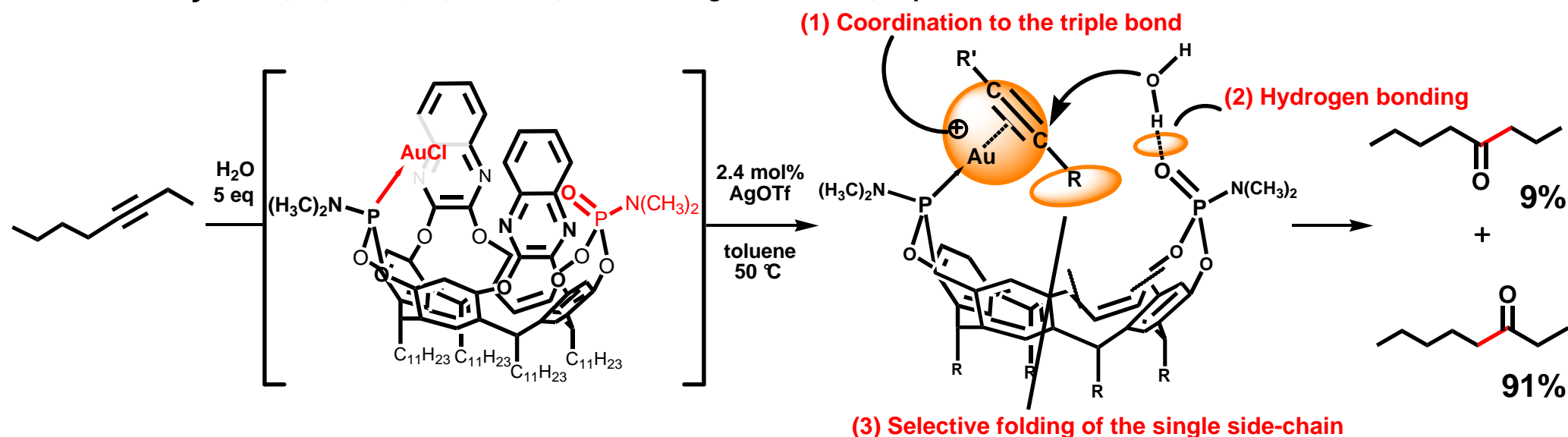
A cavitand-recessed type mono-Au catalyst for selective hydration of internal alkynes

Mami Inoue, Naoki Endo, Tetsuo Iwasawa*

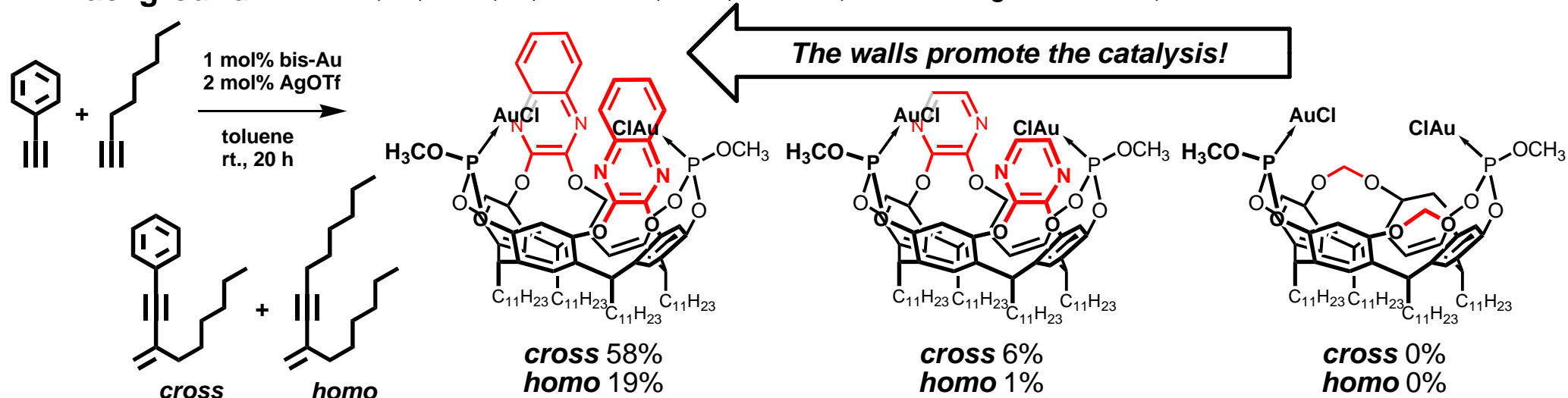
Department of Materials Chemistry, Ryukoku University, Seta, Otsu, Shiga 520-2194, Japan



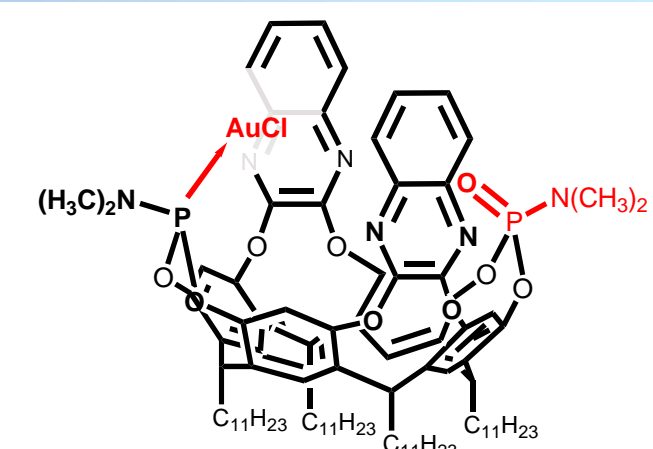
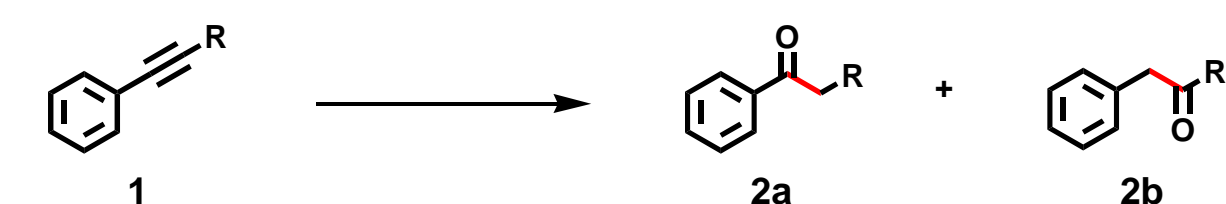
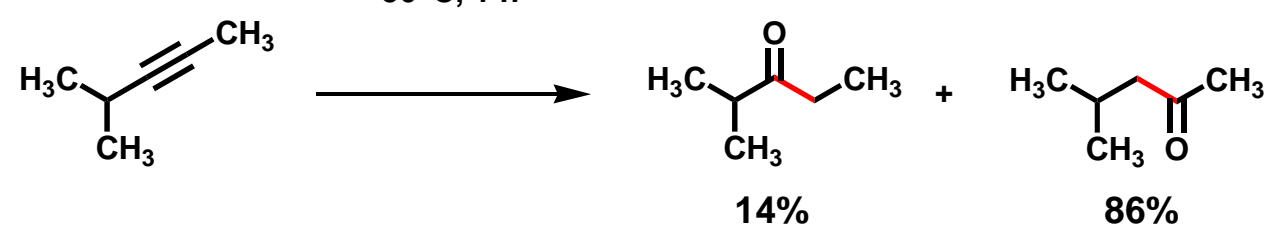
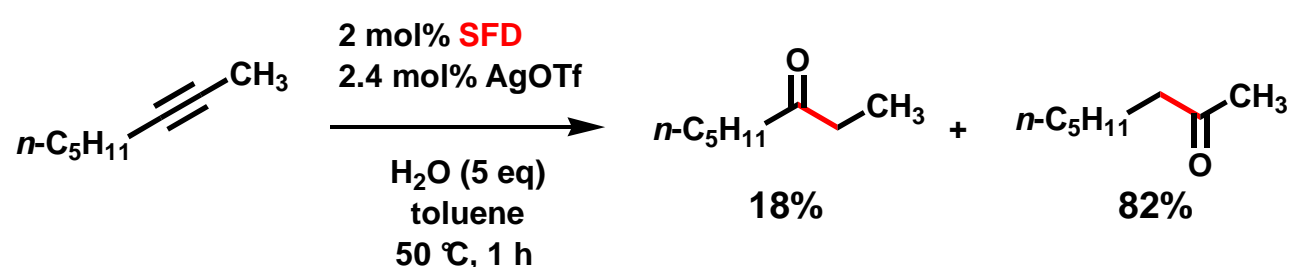
1. Summary Endo, N.; Inoue, M.; Iwasawa, T. *Eur. J. Org. Chem.* 2018, in press.



2. Background Kanaura, M.; Endo, N.; Schramm, M. P.; Iwasawa, T. *Eur. J. Org. Chem.* 2016, 4970-4975.



3. Selective hydration of simple internal alkynes



Supramolecular Flask Device **SFD**

R	NMR Yield/%			conversion/%
	2a	2b	1	
H	0	0	100	0
<i>n</i> -C ₂ H ₅	2	98	0	>99
<i>n</i> -C ₃ H ₇	16	33	51	49
<i>n</i> -C ₇ H ₁₅	0	0	100	0

