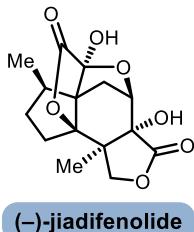
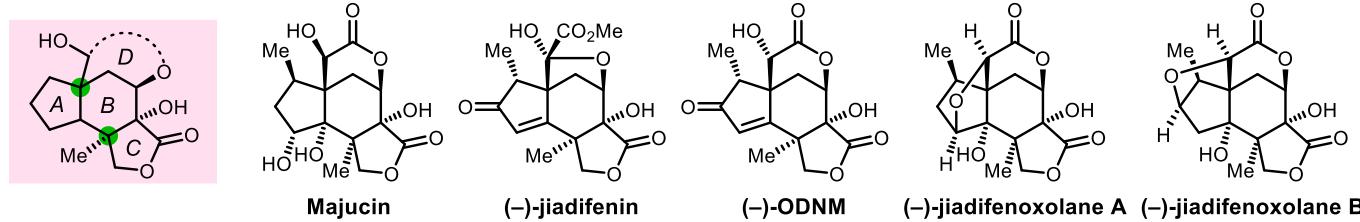


Isolation and bioactivity



Majucin type common scaffold



- ◆ First isolated from dried pericaps of *Illicium jiadifengpi*. (0.00001% yield)

OL 2009, 11, 5190



One of the most recognised *Illicium* genus species: *I. verum* (star anise)

- ♦ Non-peptide neurotrophic agent (useful in treatment of Alzheimer's disease).
 - ♦ Not extensively studied due to absence of large quantities source.

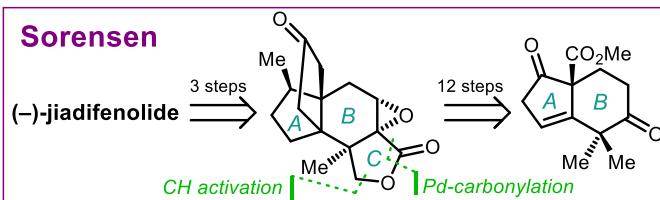
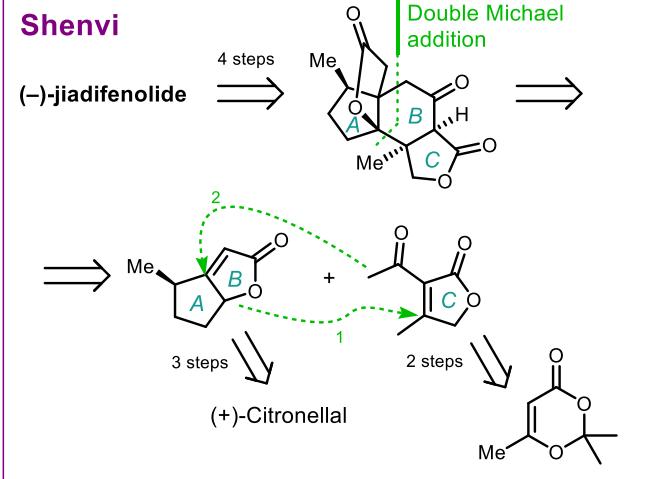
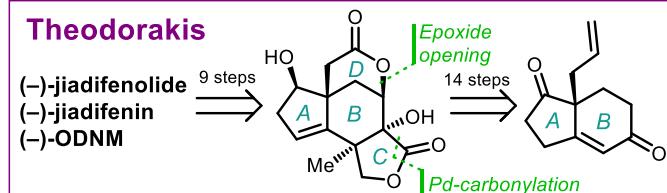
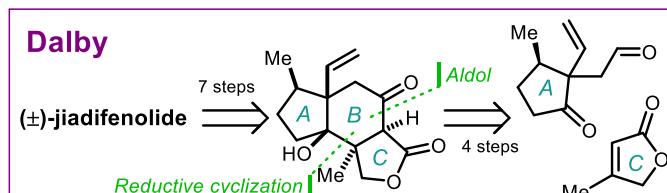
*Isolation of 1 g of I would require 117 kilograms of *I. jiadifengpi* pericarps (dry weight), one 226 kilogram silica gel column, two more silica gel columns of unspecified relative size, and preparative HPLC separation.*

NC 2015, 7, 604

Reported syntheses

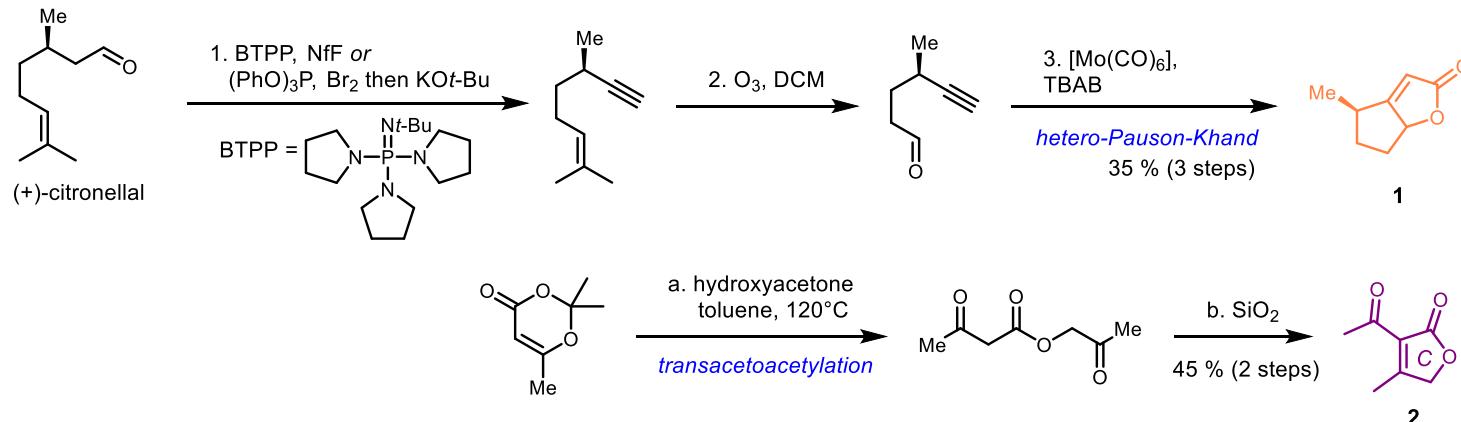
- ◆ 4 total syntheses have been reported to date (* = asymmetric synthesis)

Group	Citation	Steps	Yield	
			LLS (Tot)	mg %
Theodorakis *	<i>ACIE</i> 2011, 50, 3672 <i>CEJ</i> 2013, 19, 6398	25	5	1.5
Dalby	<i>ACIE</i> 2014, 53, 7286	23	5	1.5
Sorensen *	<i>ACIE</i> 2014, 53, 5332	17	9	1.5
Shenvi *	<i>NC</i> 2015, 7, 604	8 (10)	1030	9.2

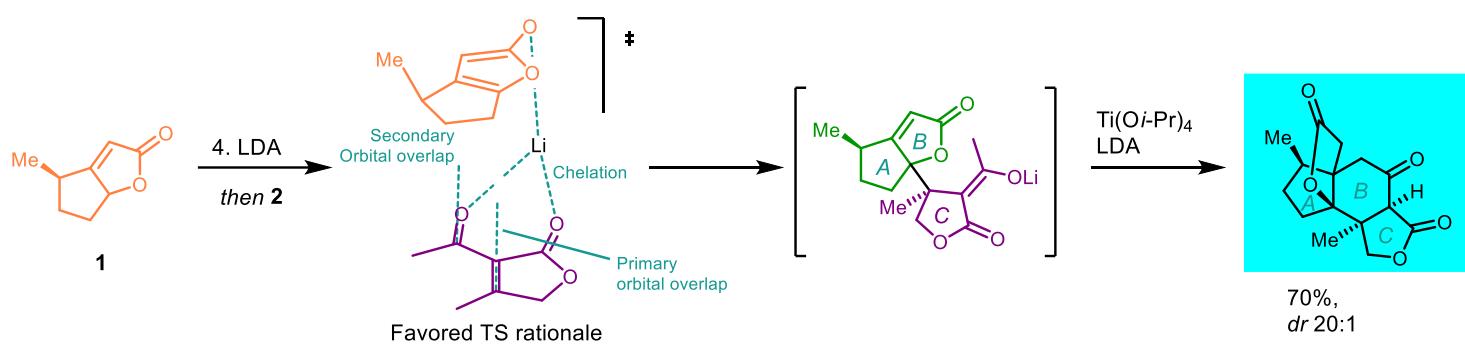


ACIE = Angewandte Chemie International Edition, *CEJ* = Chemistry – a European Journal,
OL = Organic Letters, *NC* = Nature Chemistry

Syntheses of starting materials



Double Michael addition



Final steps of the synthesis

