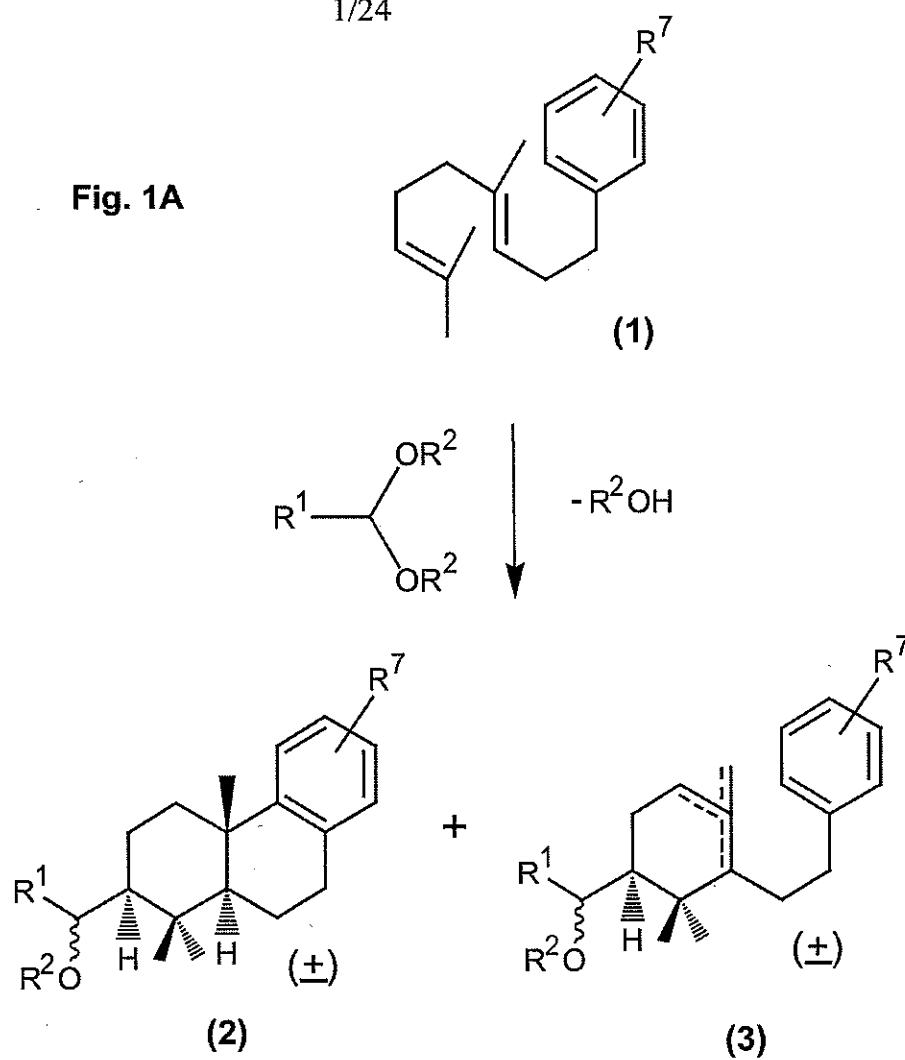


Fig. 1A

Fig. 1B ($\text{R}^7 = \text{H}$)

Entry	Initiator	Product	Yield [%] (2 ^a +3) ^b	Ratio: (2:3) ^c
1	PhCH(OMe) ₂	2a	87	88:12
2	PhCH(OEt) ₂	2b	90	86:14
3	PhCH(OAllyl) ₂	2c	84	97:03
4	PhCH(OiPr) ₂	2d	94	84:16
5		2e	72	>99:01
6		2f	76	>99:01

Fig. 2A

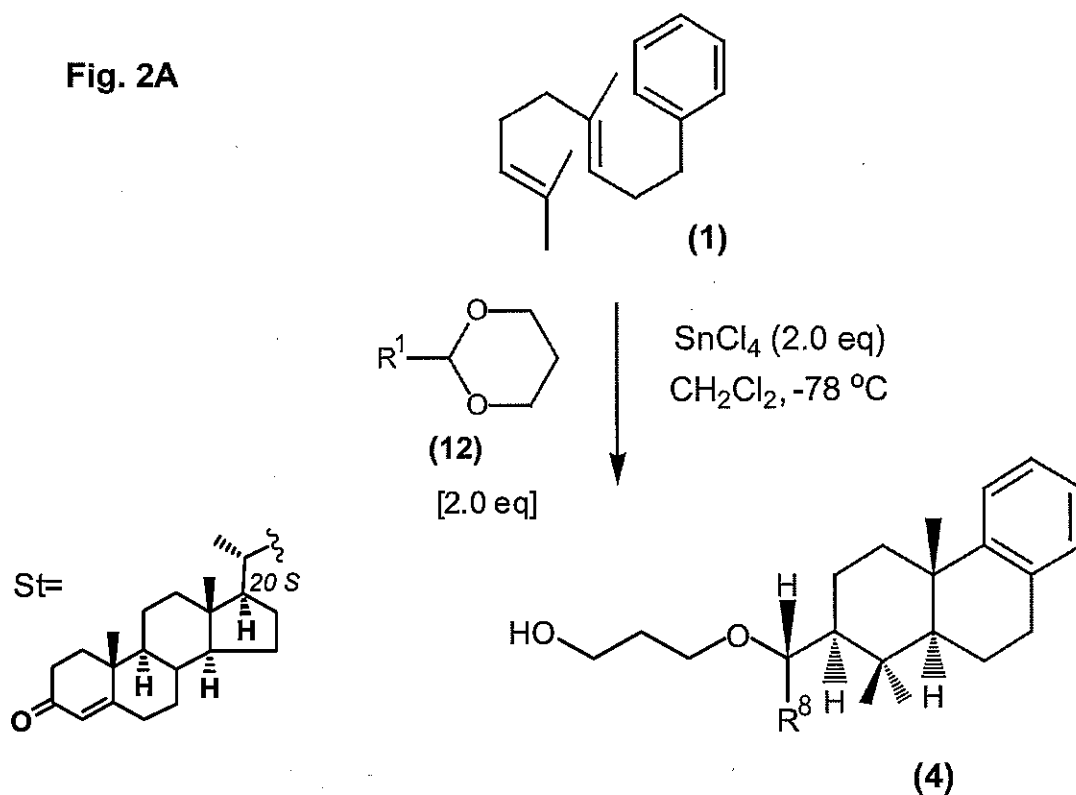


Fig. 2B

Entry	Initiator	Product	Time/h	Yield/%	d.r.
1		4a	0.5	74	88:12
2		4b	0.5	87	87:13
3		4c	0.5	71	81:19
4		4d	0.5	74	85:15
5		4e	0.5	62	88:12
6		4f	24	80	87:11:02

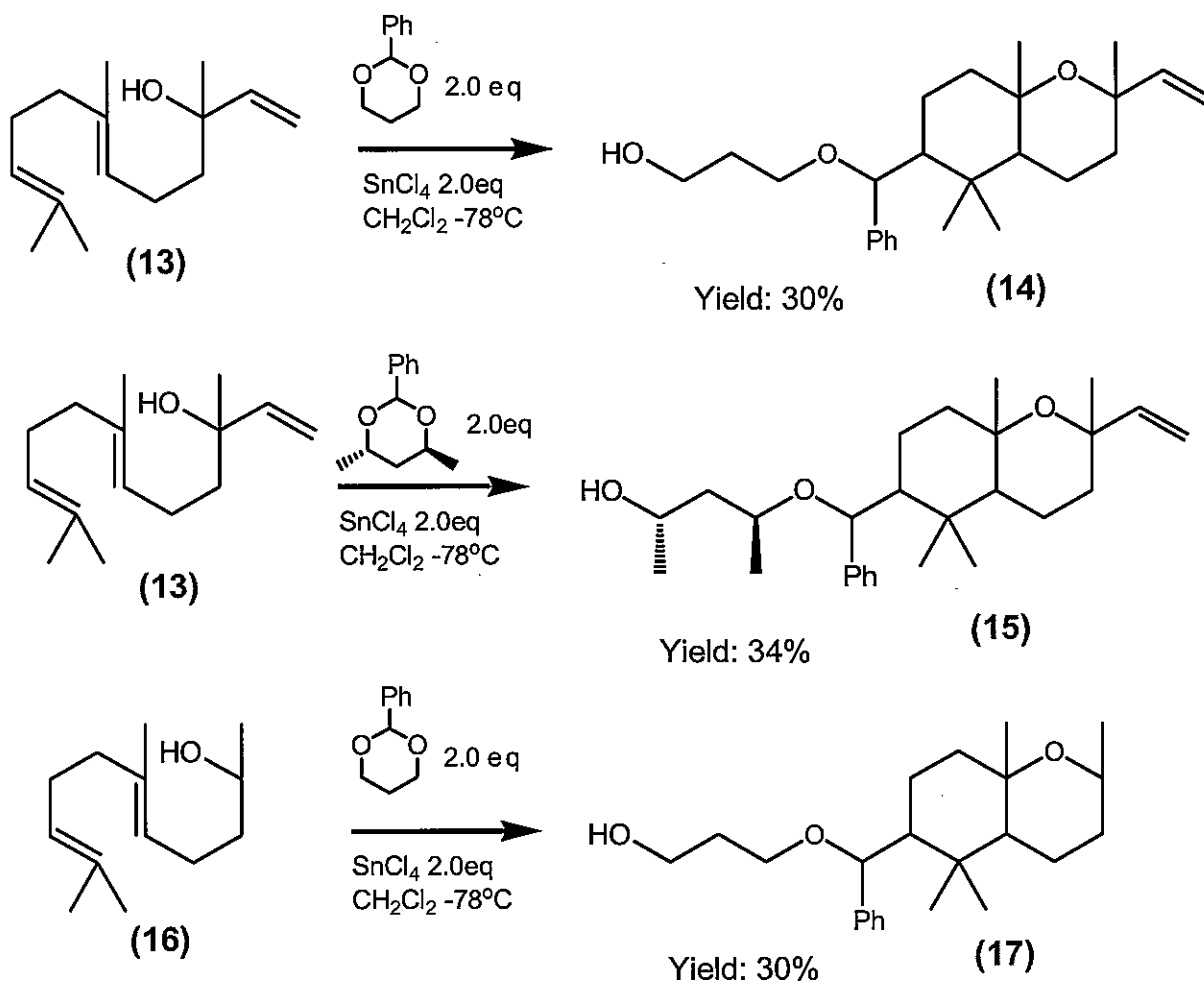
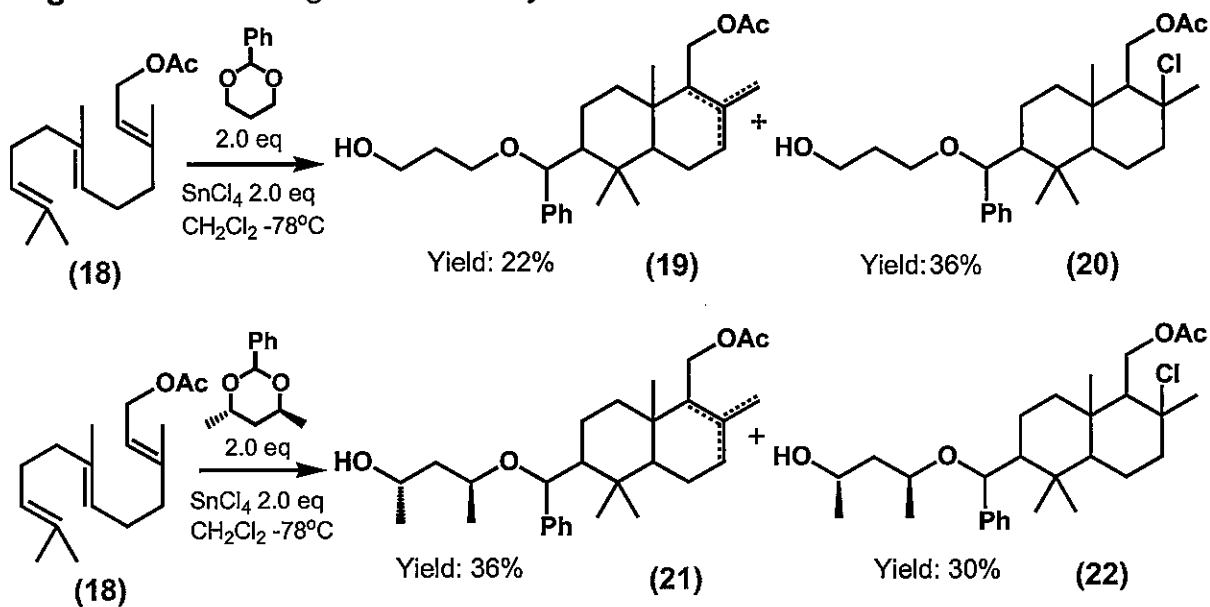
Fig. 3: Terminating Alcohol Moiety**Fig. 4:** Terminating Alkene Moiety

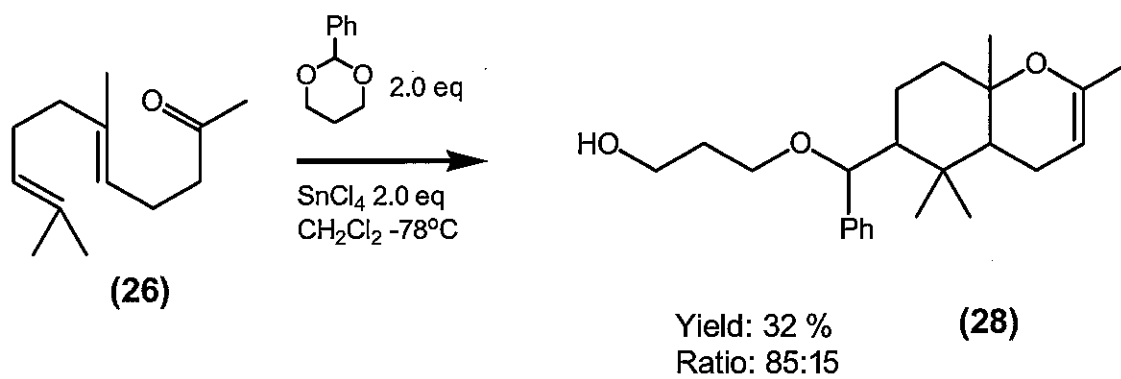
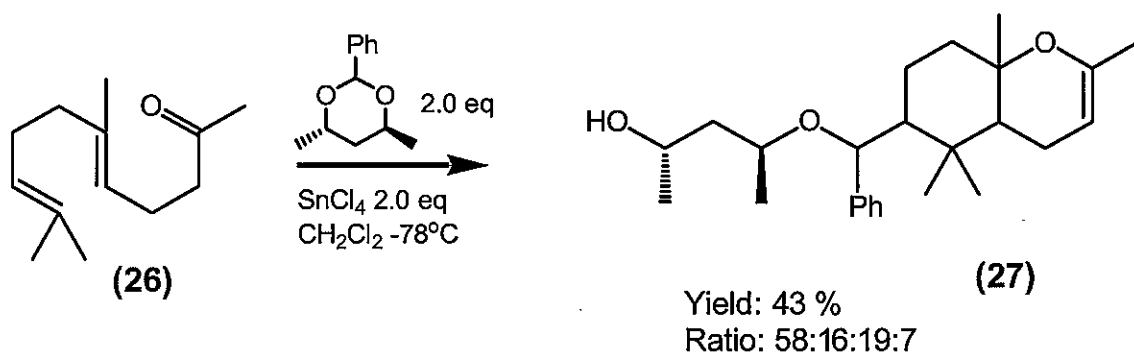
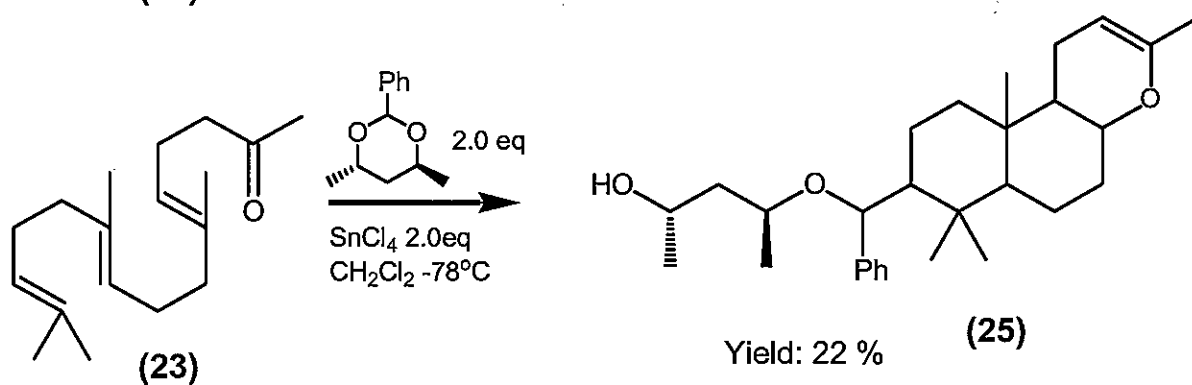
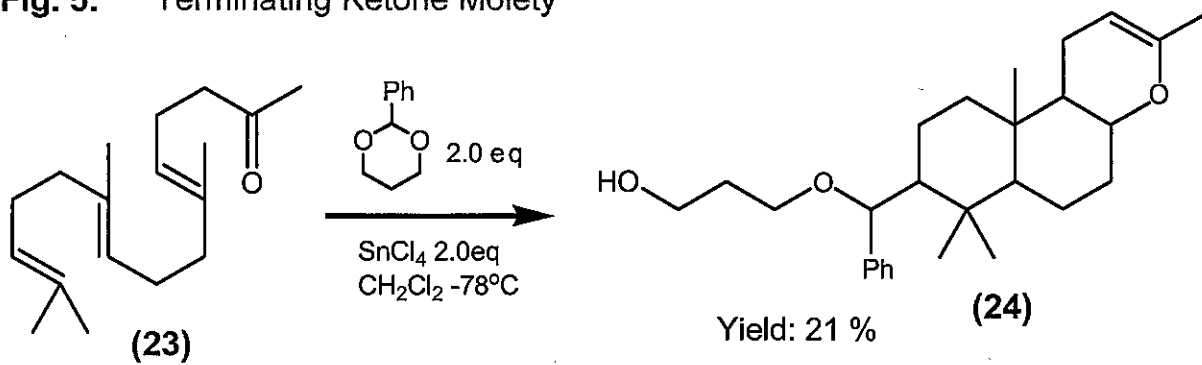
Fig. 5: Terminating Ketone Moiety

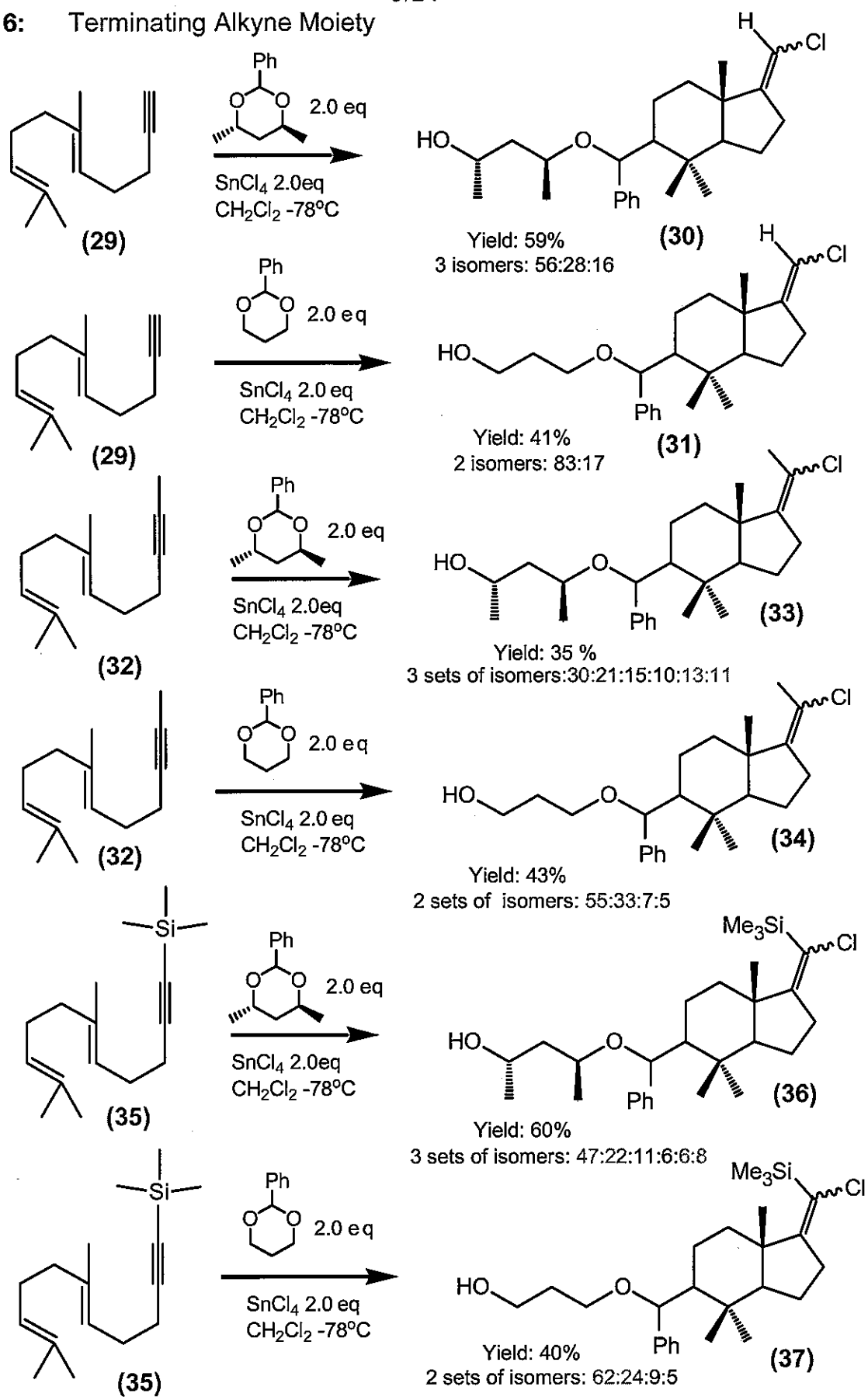
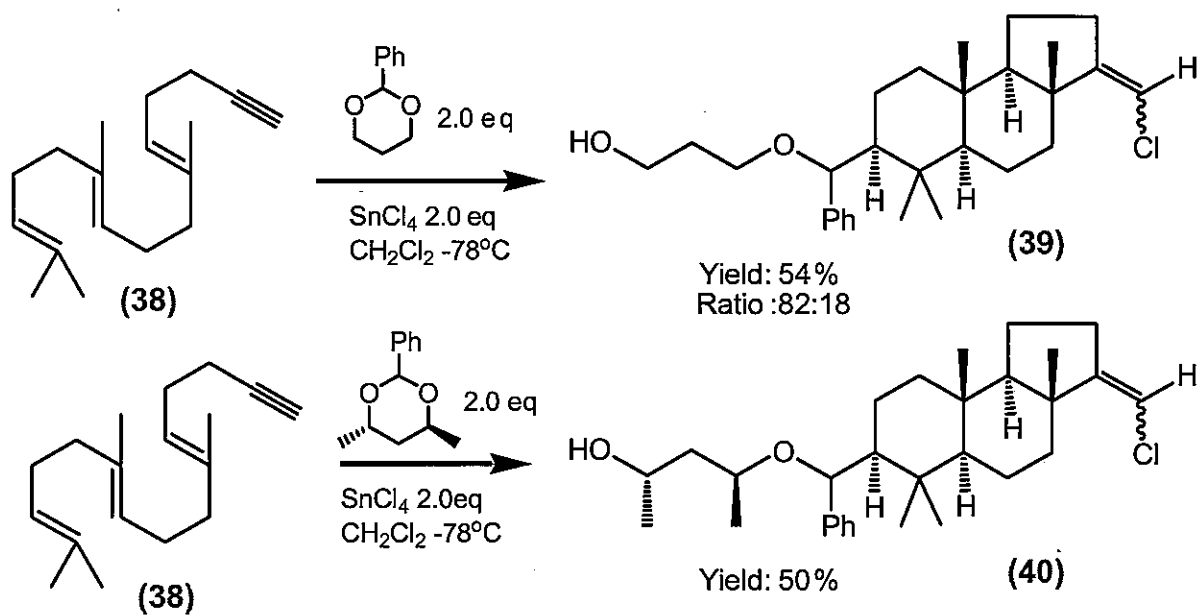
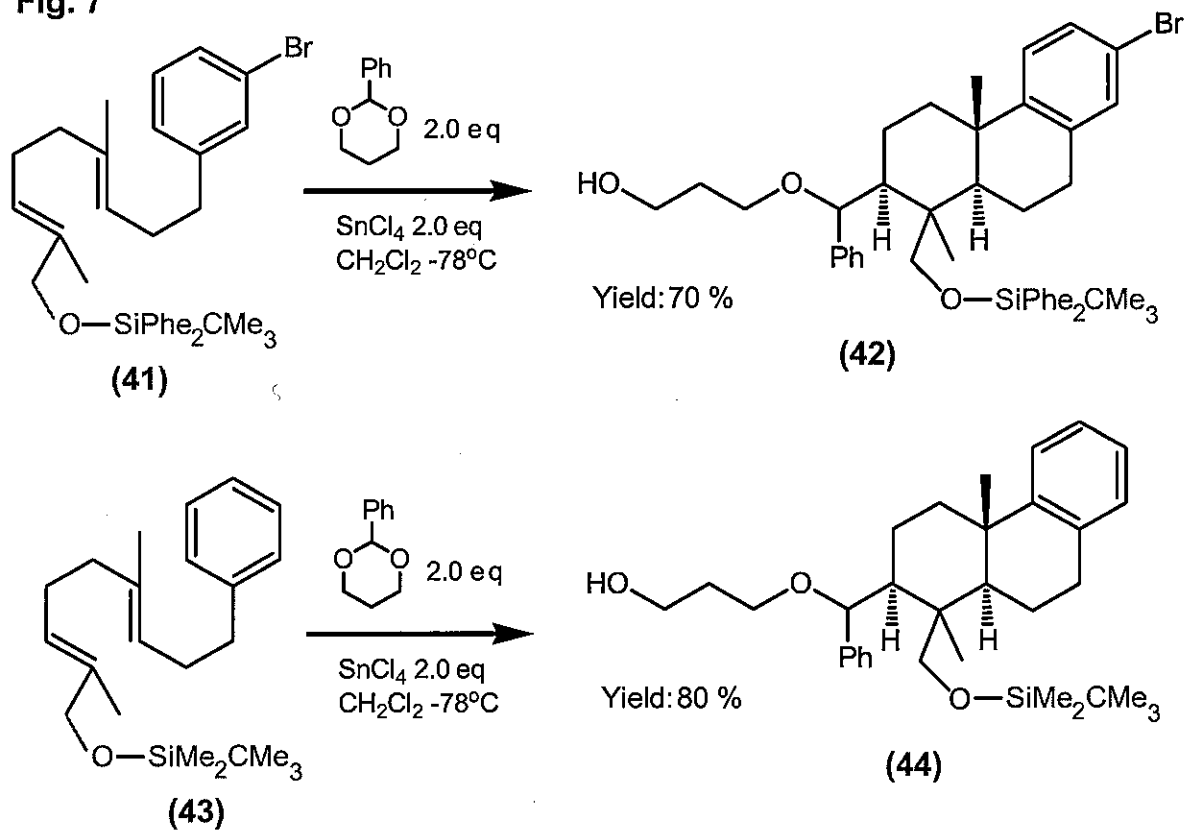
Fig. 6: Terminating Alkyne Moiety

Fig. 6: Terminating Alkyne Moiety (continued)**Fig. 7**

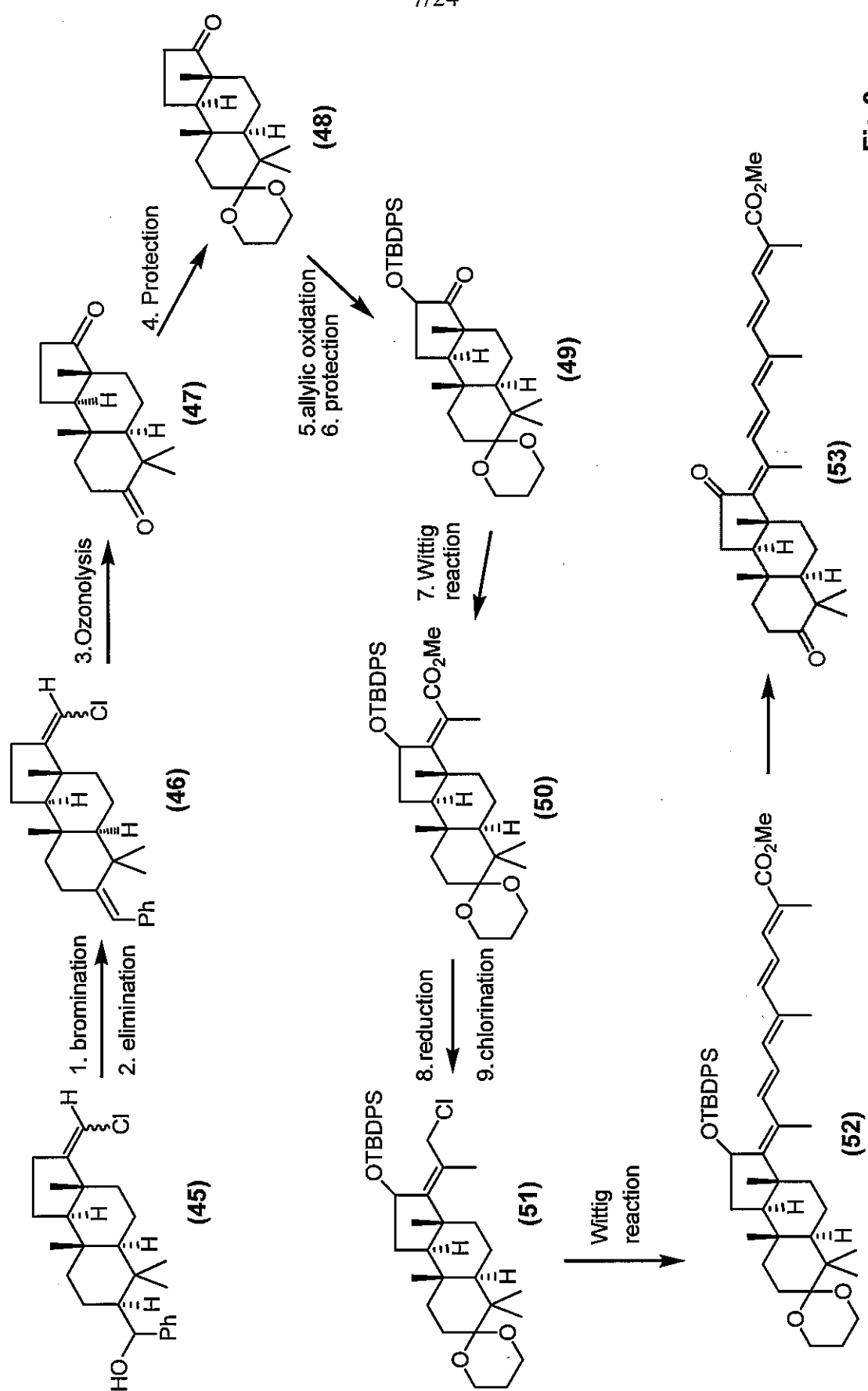


Fig.8

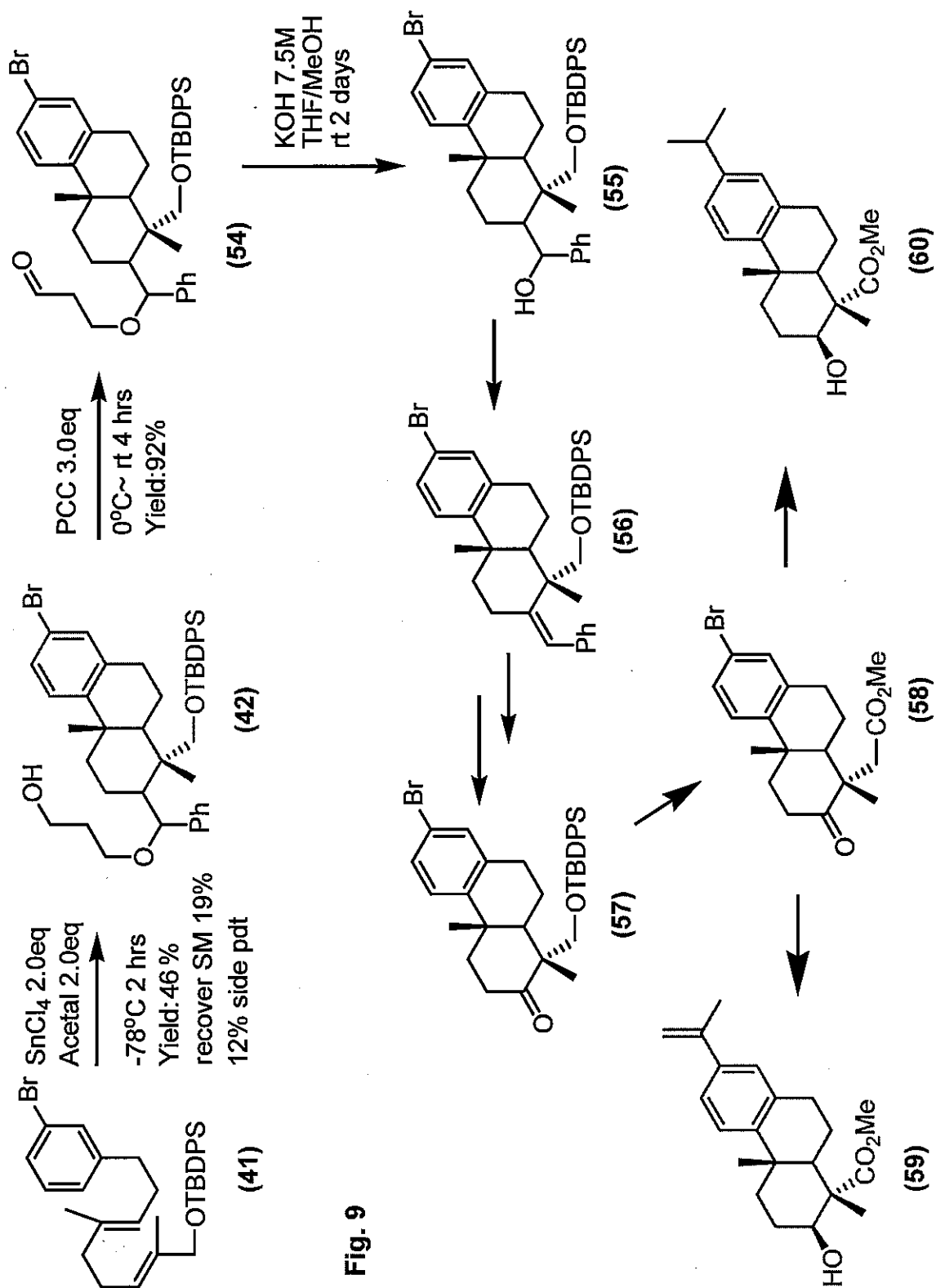


Fig. 9

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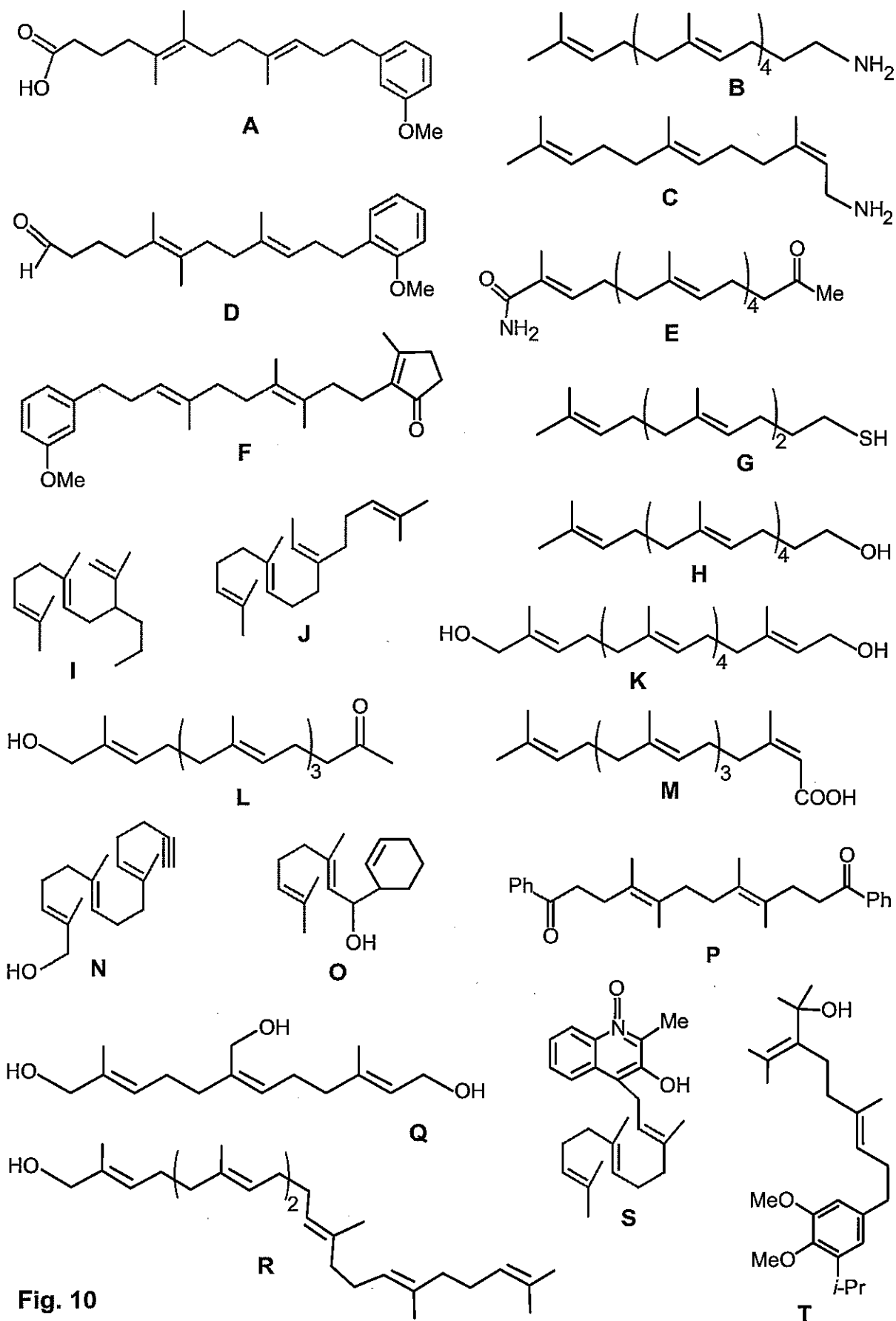


Fig. 10

10/24

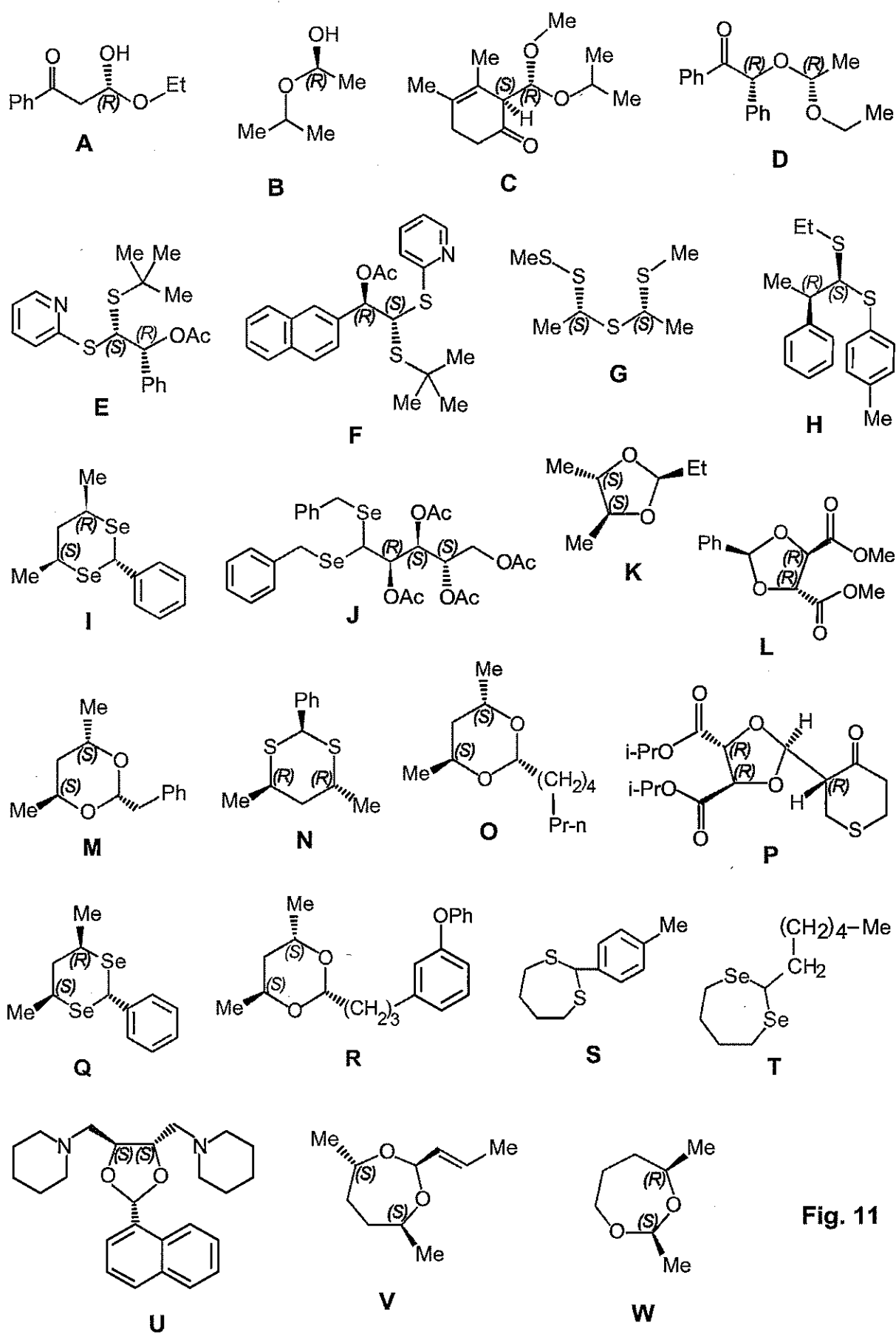


Fig. 11

Fig. 12A

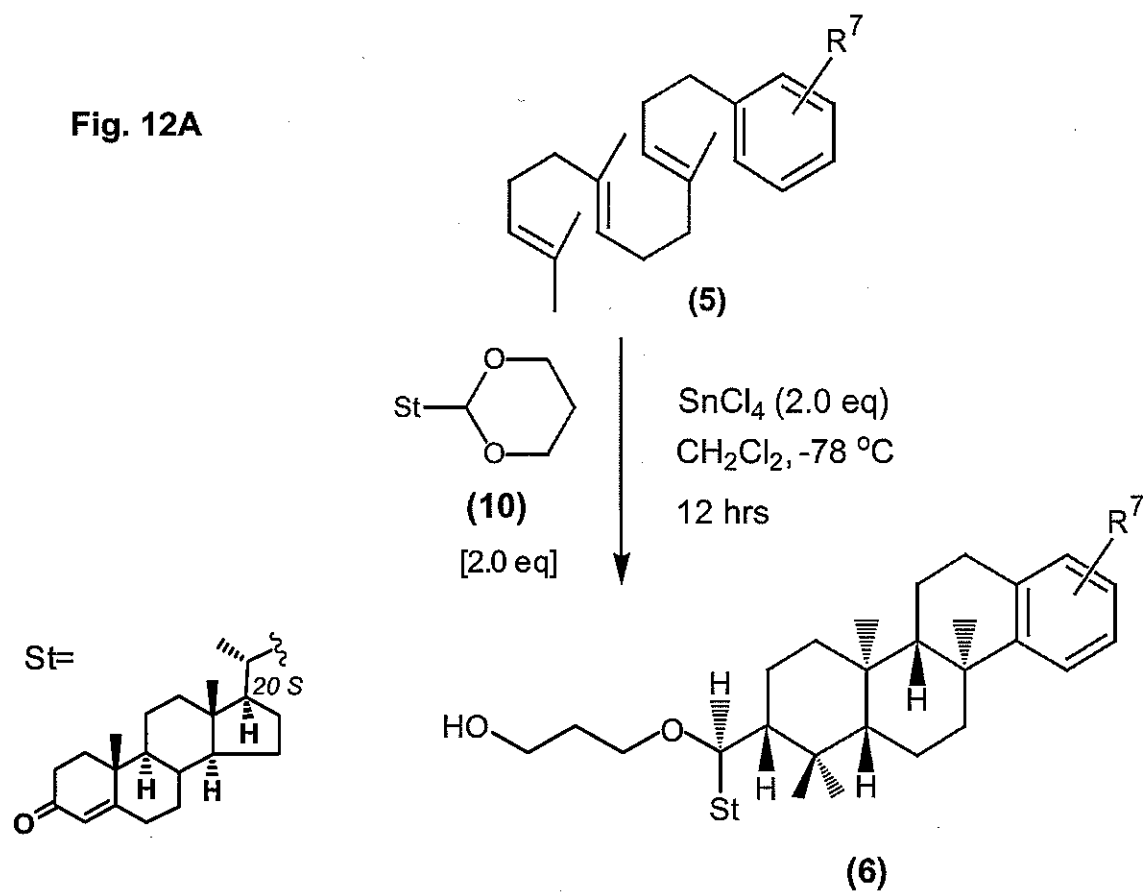


Fig. 12B

Entry	R^7	Product	Yield[%]	d.r.
1	—	6a	73	66:18:10:6
2	4-Me	6b	66	66:17:14:3
3	3-Me	6c	75	73:14:12:1
4	2-Me	6d	76	71:20:8:1
5	4-OMe	6e	59	74:18:7:1
6	4- <i>i</i> Pr	6f	71	64:20:14:2

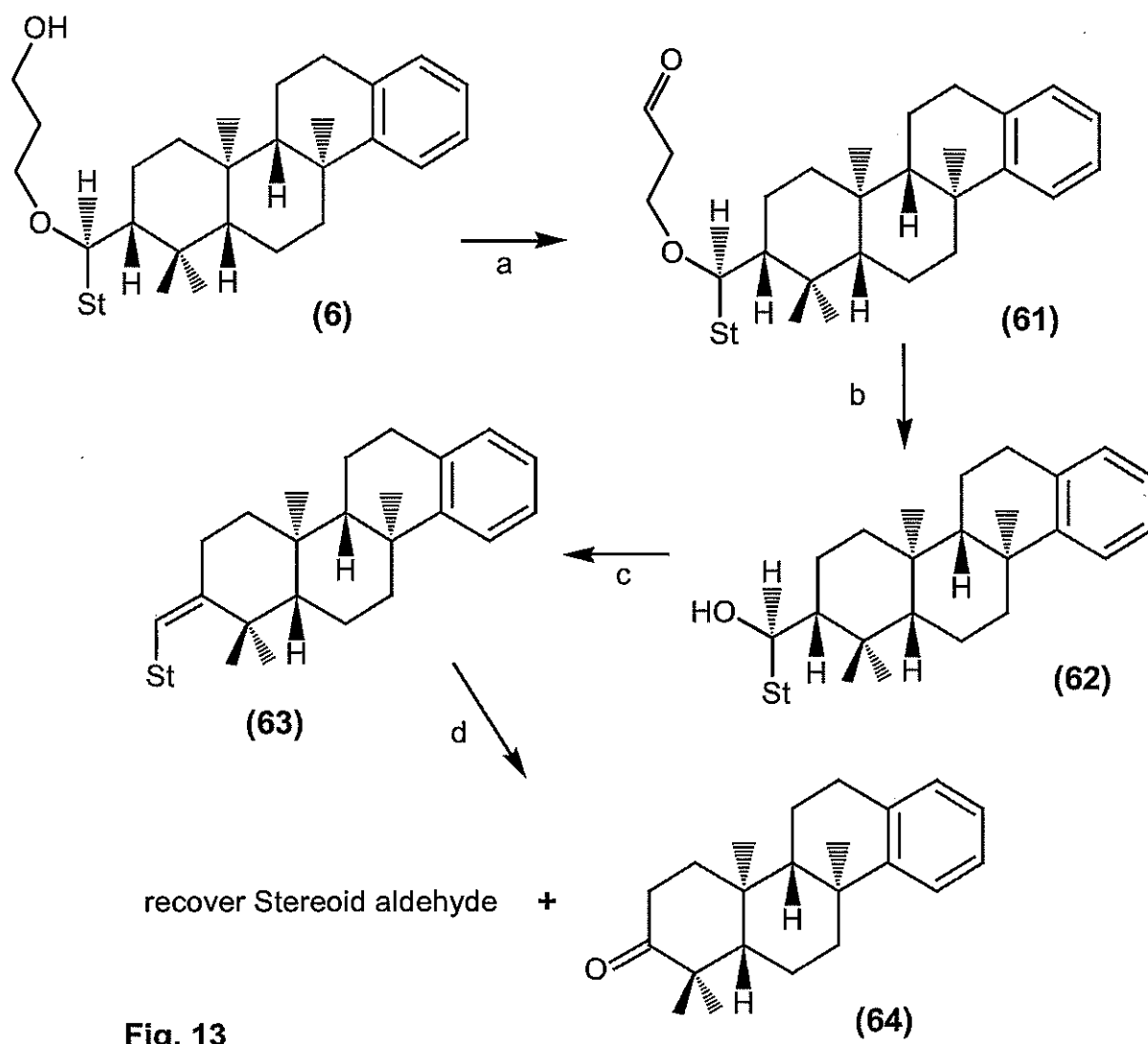


Fig. 13

Fig. 14

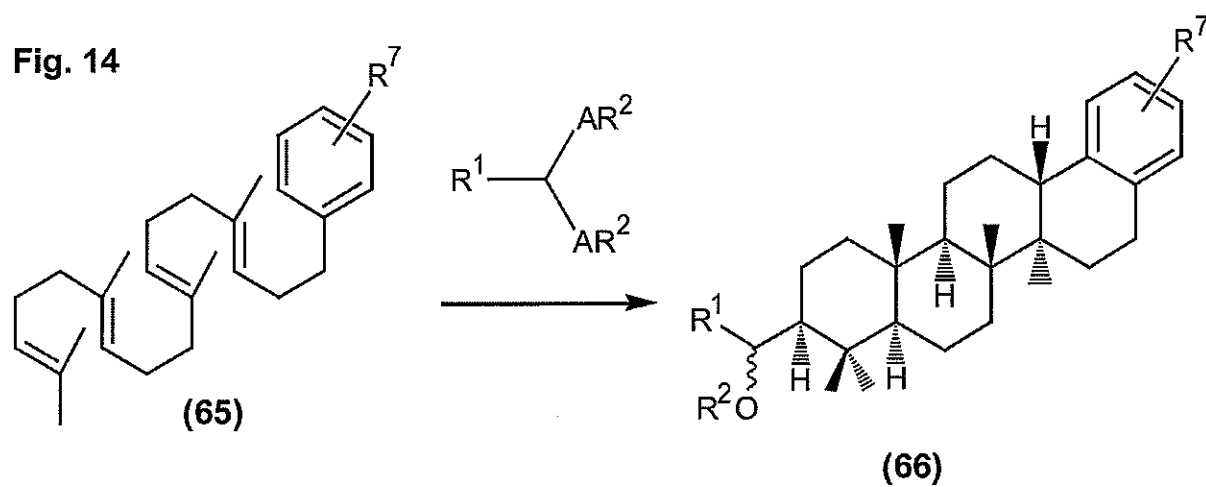


Fig. 15A

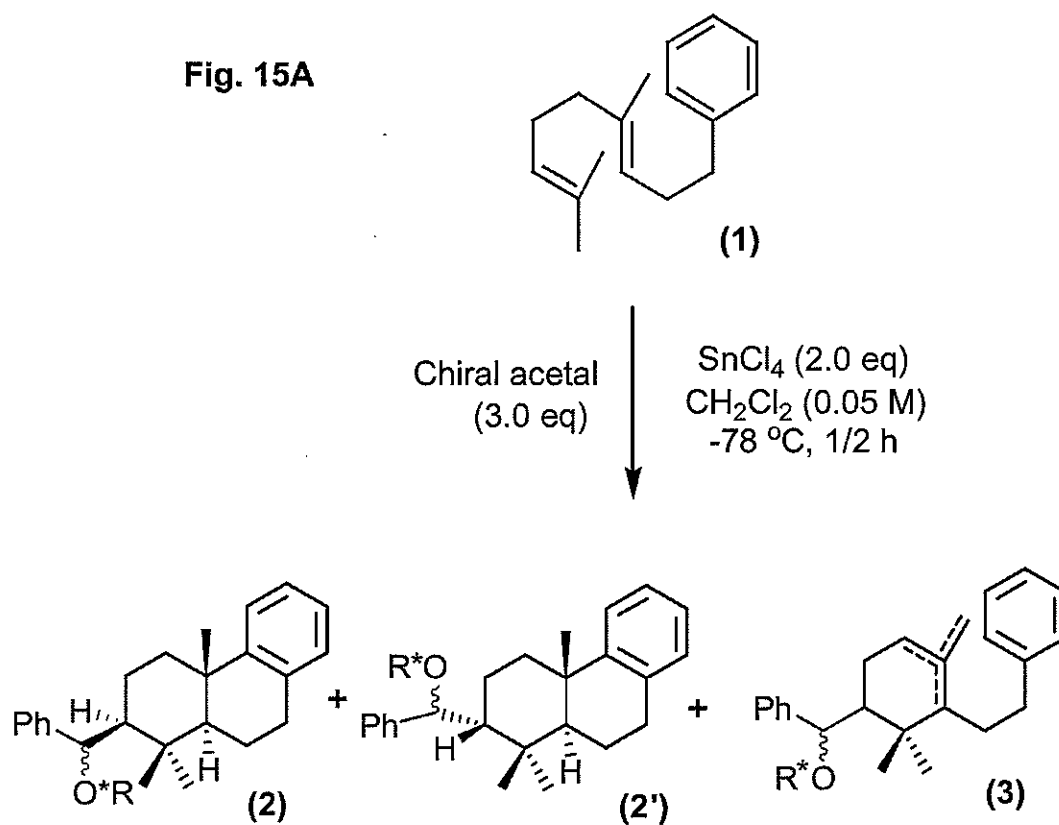


Fig. 15B

Entry	chiral Initiator	Product	Yield [%] (2 ^a +3) ^b	Ratio: (2/2':3) ^c	dr ^c (2:2')
1	$\text{PhCH}(\text{O}(\text{CH}_2\text{CH}(\text{CH}_3)_2)_2) (\pm)$	2g/2g'	88	>99:1	61:39
2	$\text{PhCH}(\text{O}(\text{CH}_2\text{CH}(\text{CO}_2\text{Me}))_2)$	2h/2h'	80	69:31	88:12

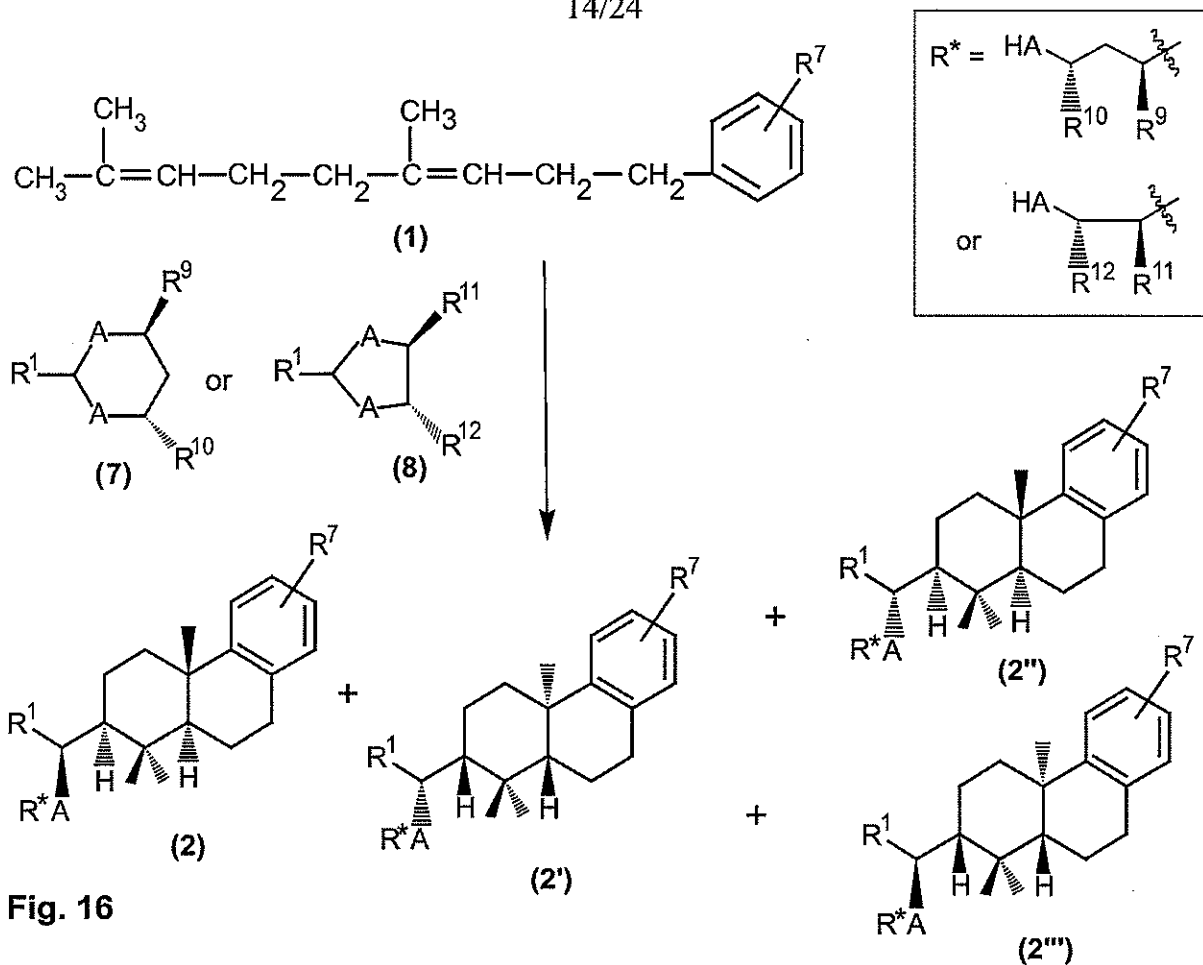
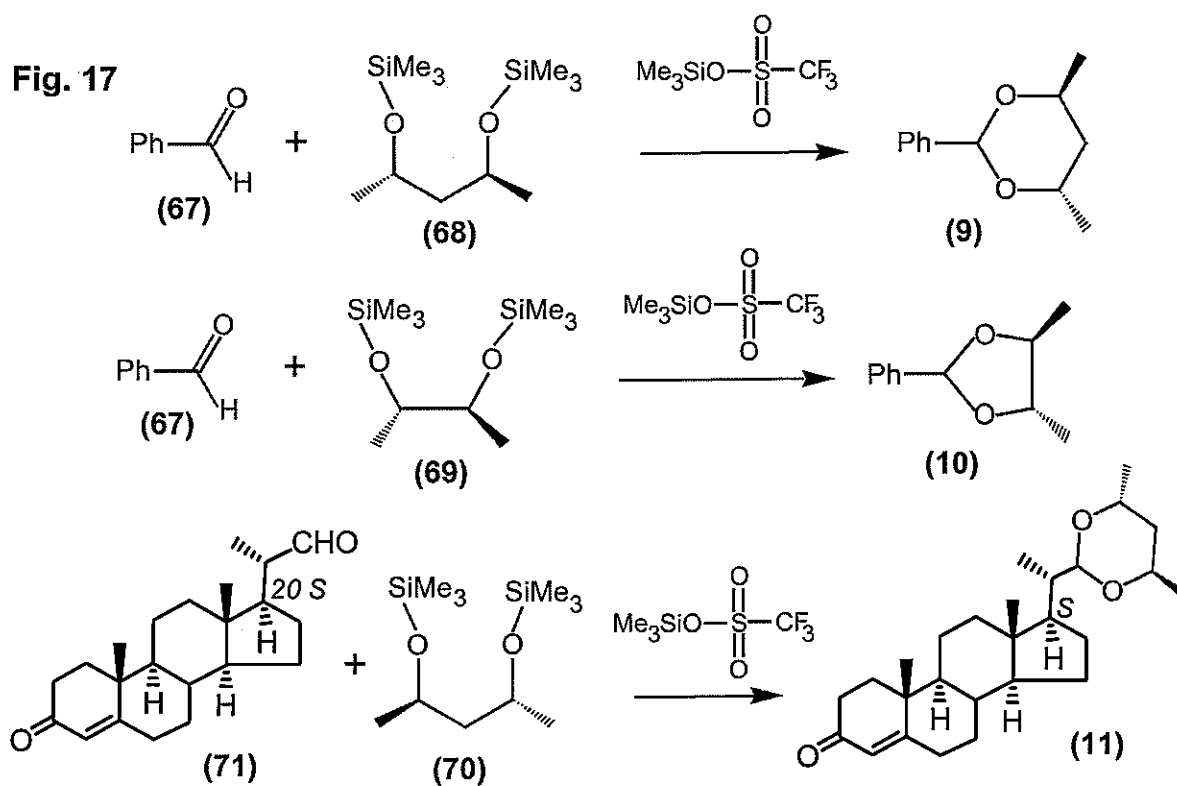


Fig. 16



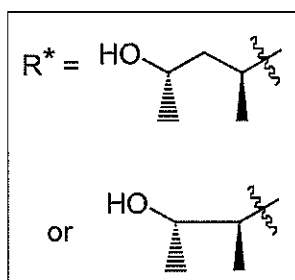


Fig. 18A

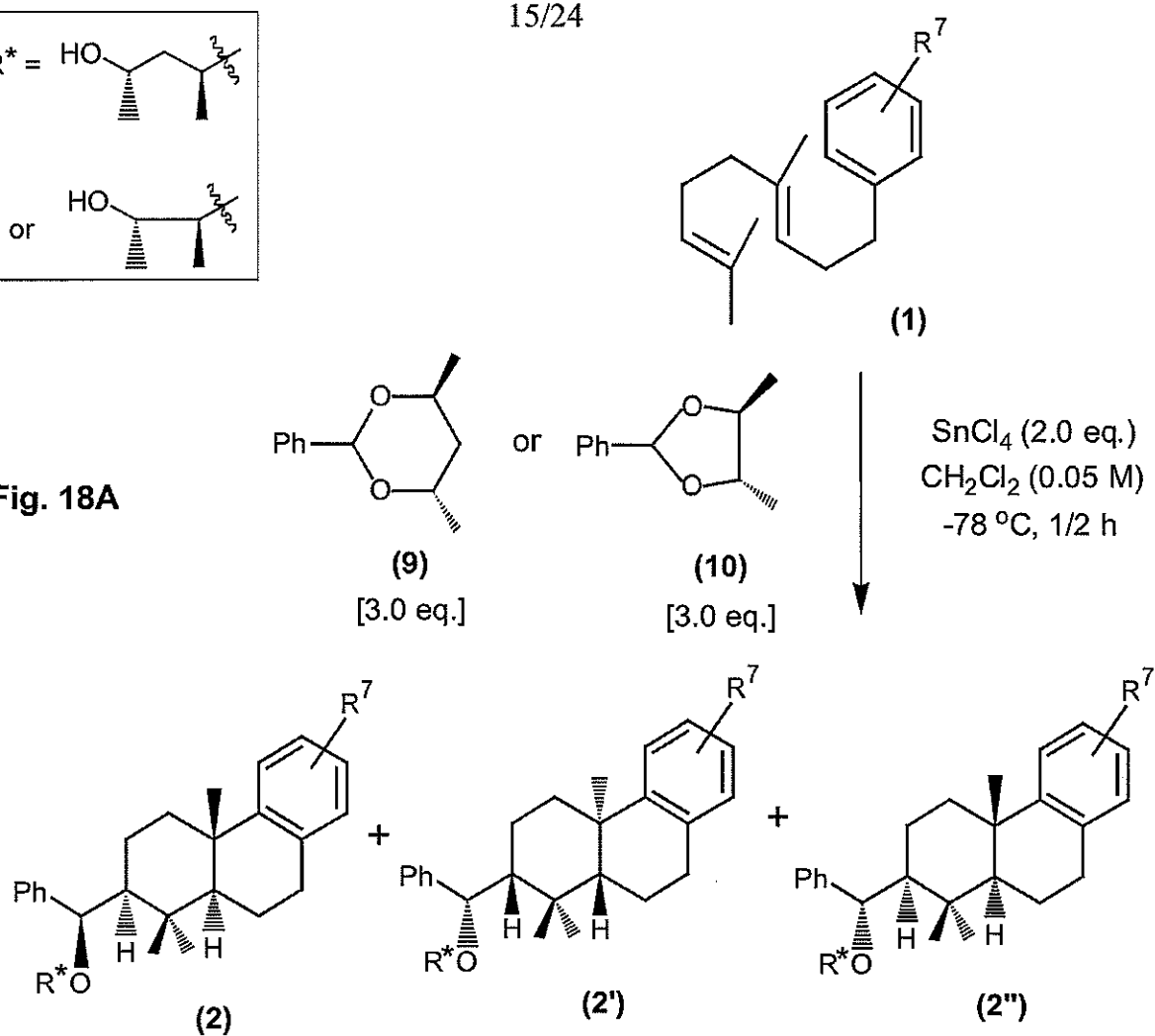
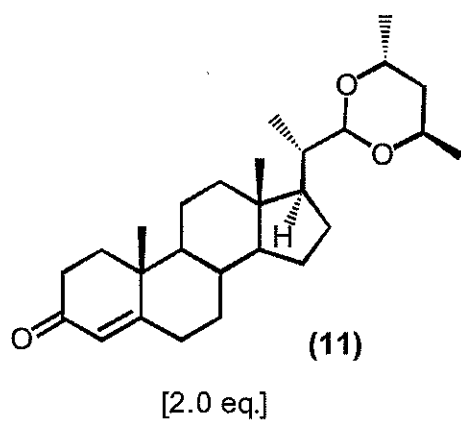
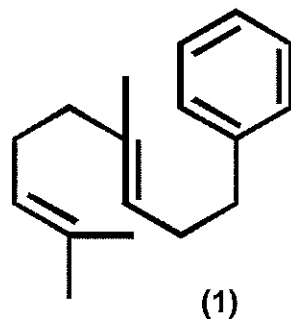


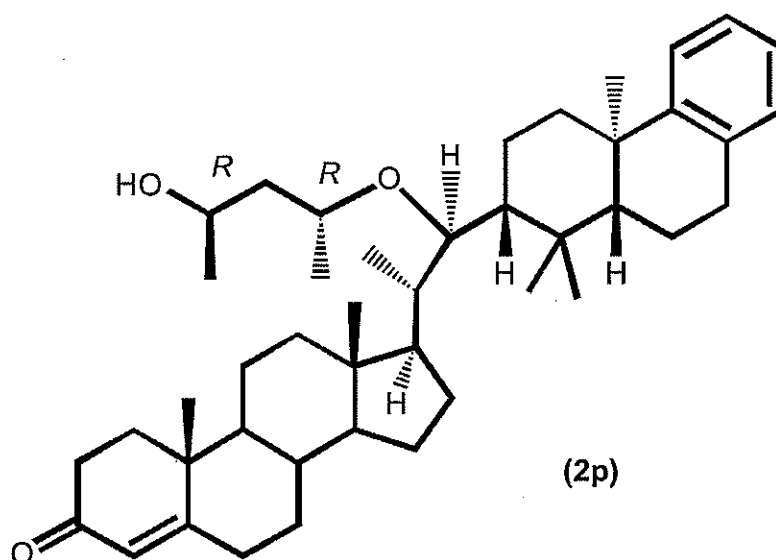
Fig. 18B

Entry	R^7	Product	Initiator	Yield [%] (2+2'+2'') ^{a,b}	Ratio ^c (2:2':2'')	d.r. ^d (2+2':2'')
1 ^e	—	2i/i'/i''	(10)	58	76:8:13:3	89:11
2	—	2j/j'/j''	(9)	89	66:18:16	82:18
3	4- <i>i</i> Pr	2k/k'/k''	(9)	88	73:14:13	86:14
4	4-OMe	2l/l'/l''	(9)	75	72:16:12	84:16
5 ^f	3-OMe	2m/m'/m''	(9)	65	66:19:15	81:19
6	4-Me	2n/n'/n''	(9)	87	66:17:17	83:17
7	3-Me	2o/o'/o''	(9)	85	71:18:11	82:18

Fig. 19



SnCl₄ 2.0 eq
CH₂Cl₂ -78°C
24 hrs



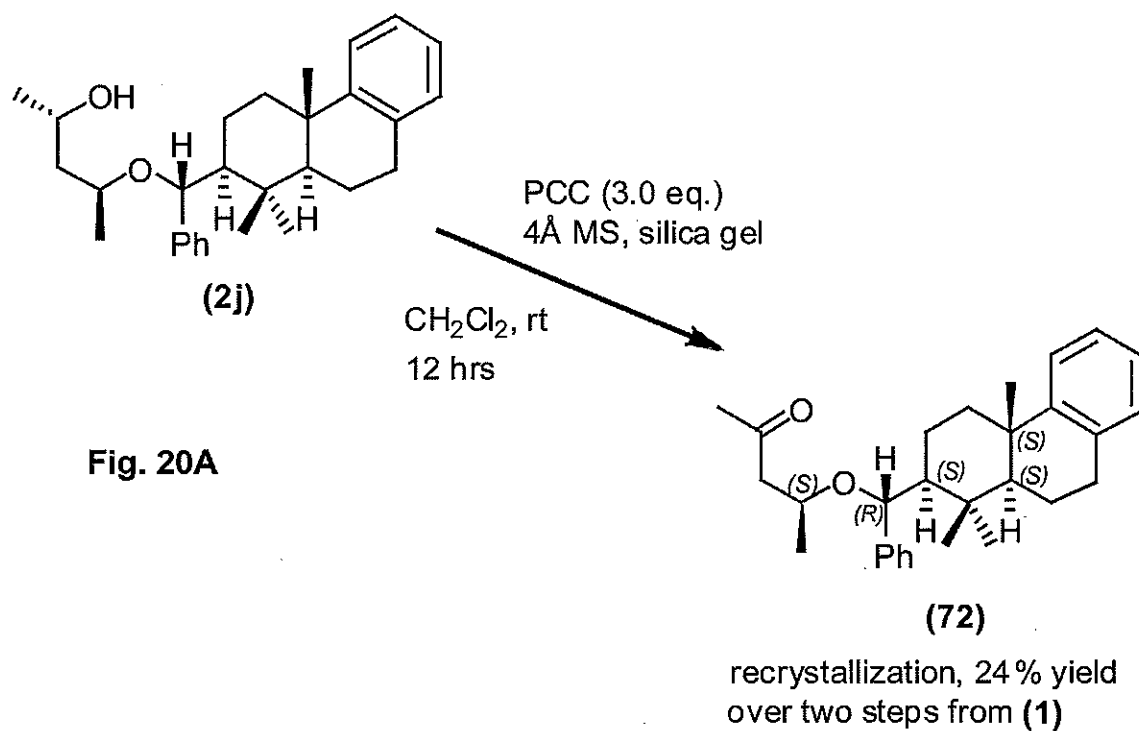


Fig. 20A

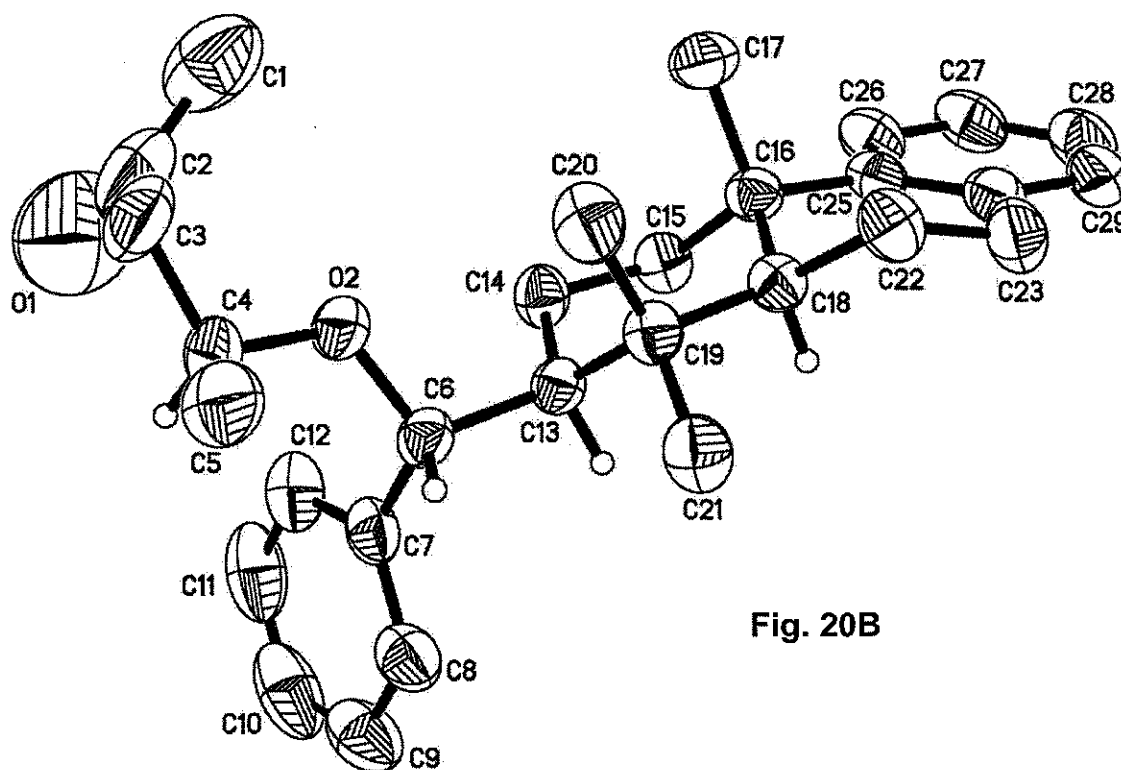
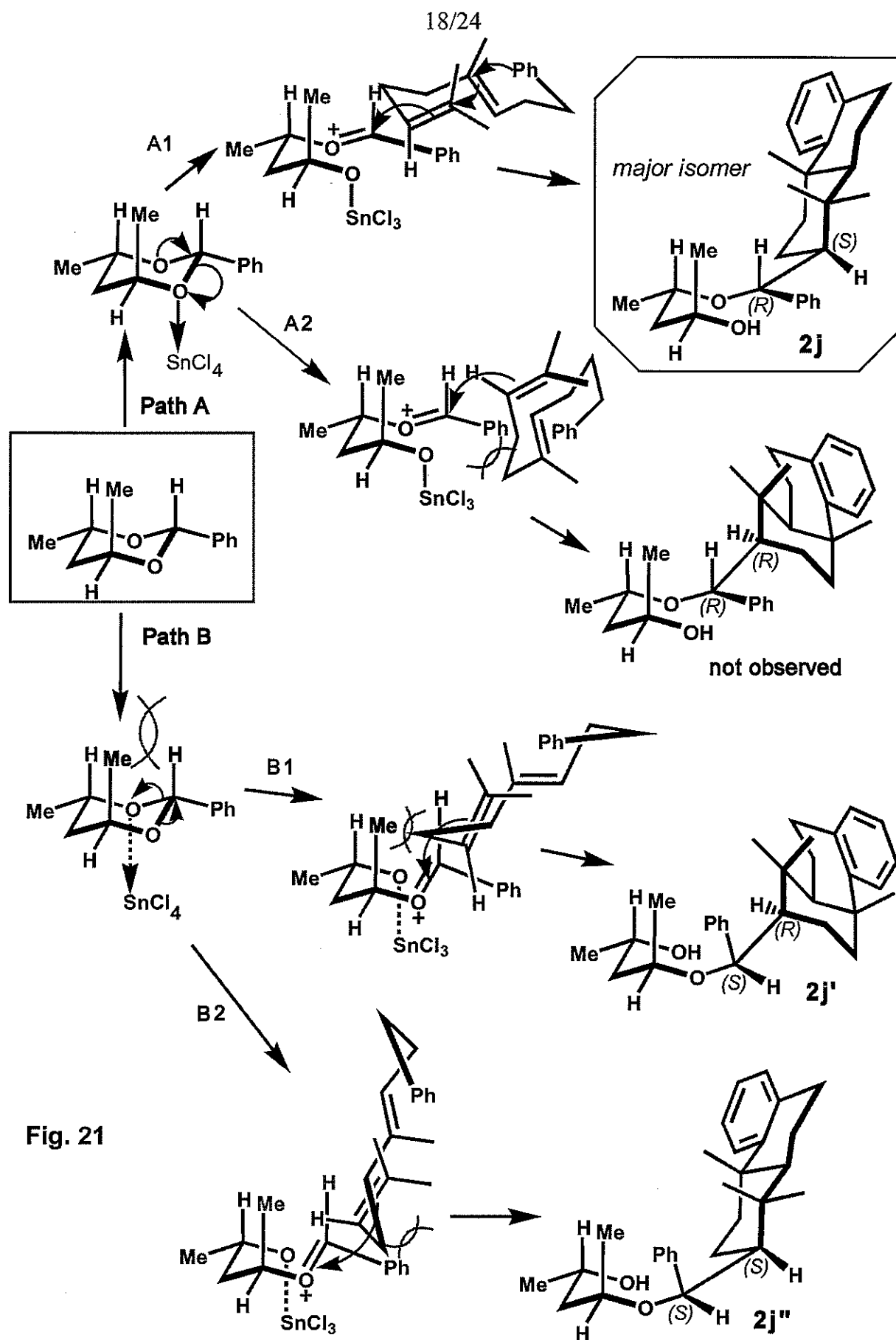


Fig. 20B



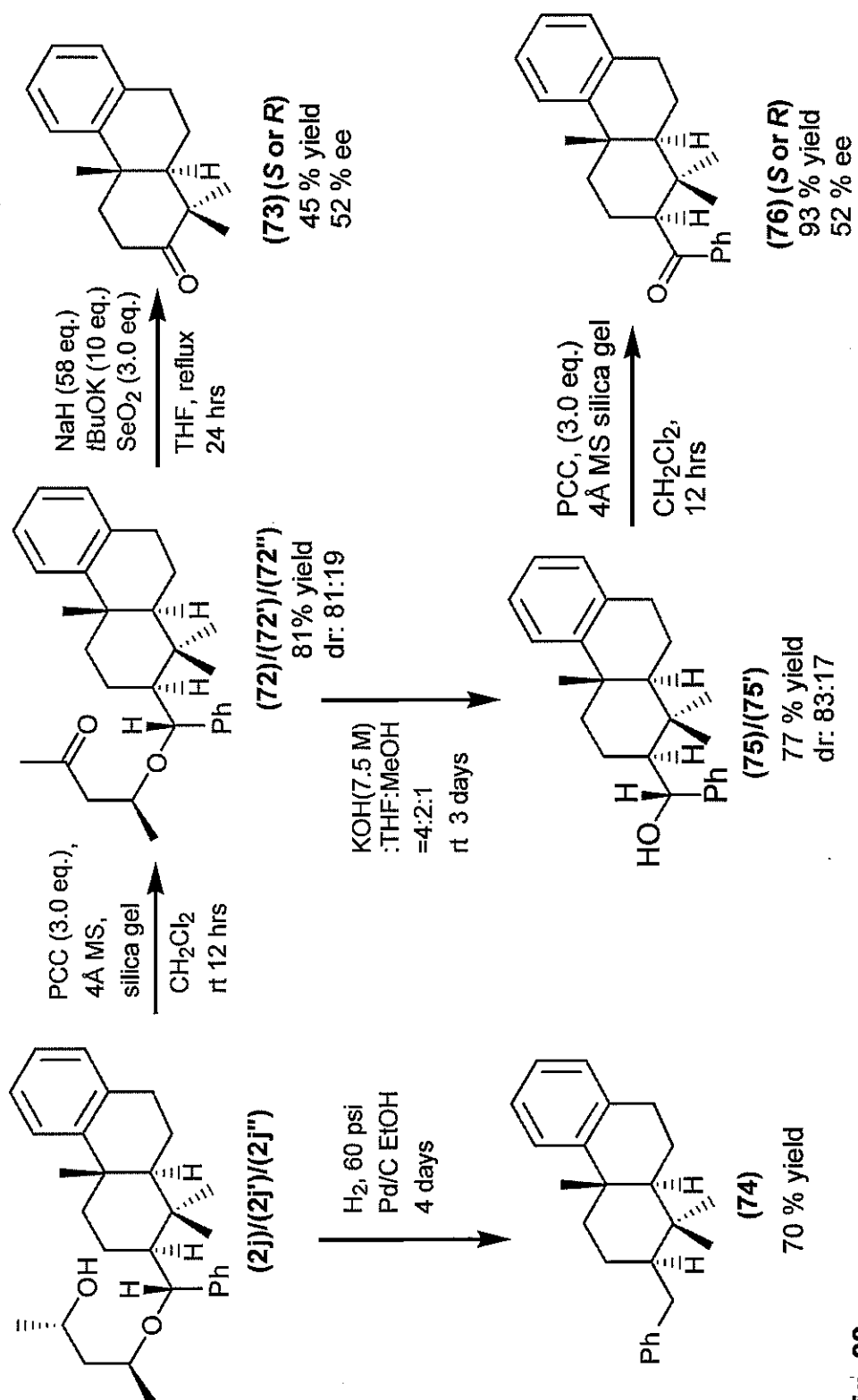


Fig. 22

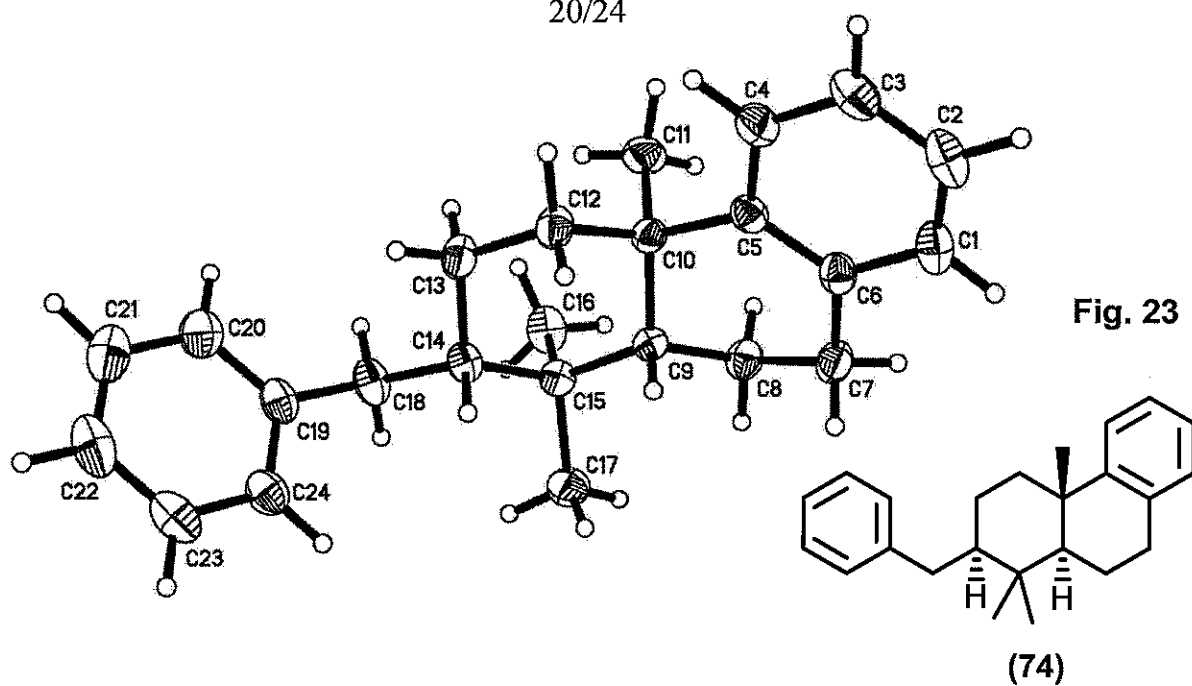


Fig. 23

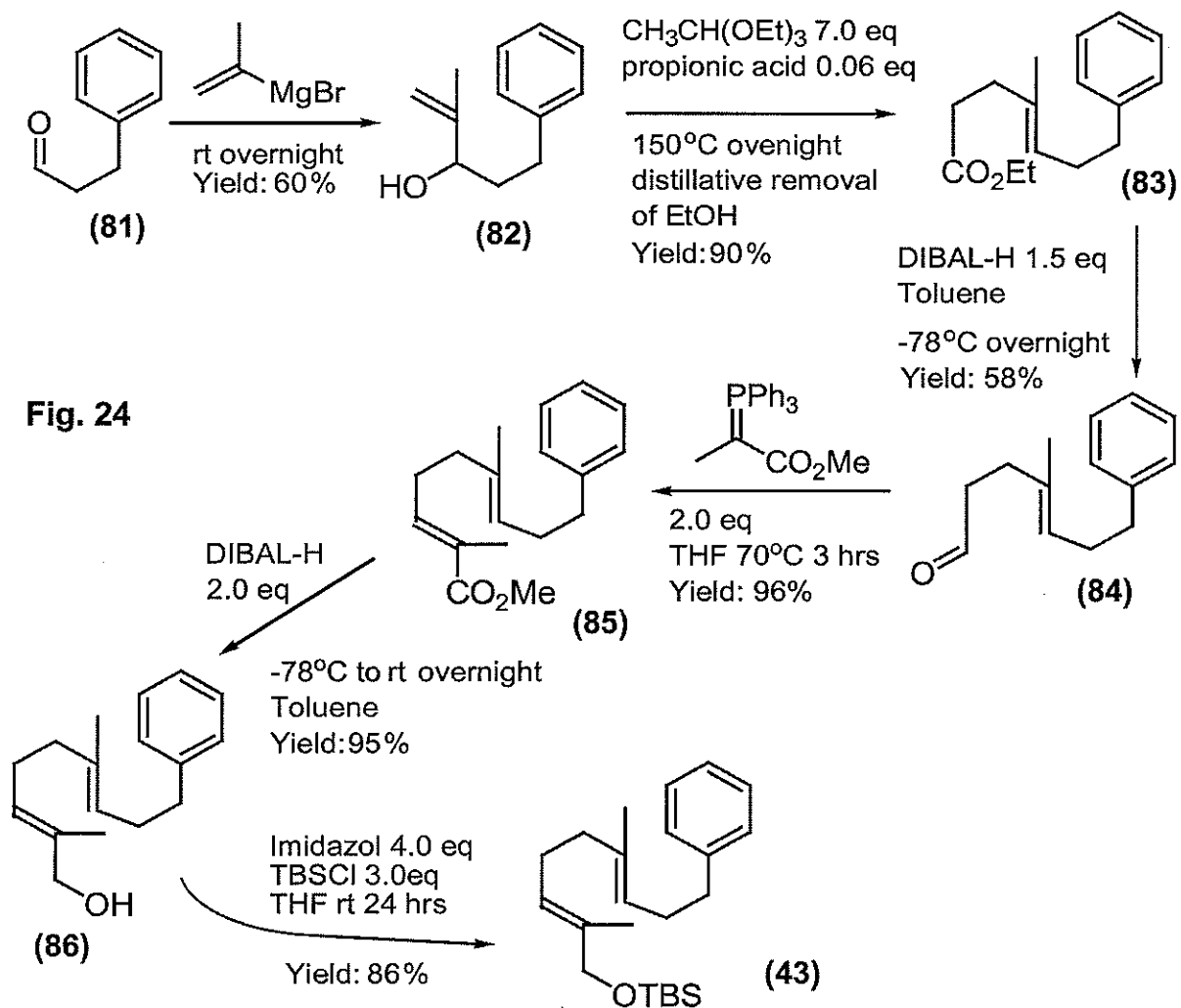


Fig. 24

Fig. 25A

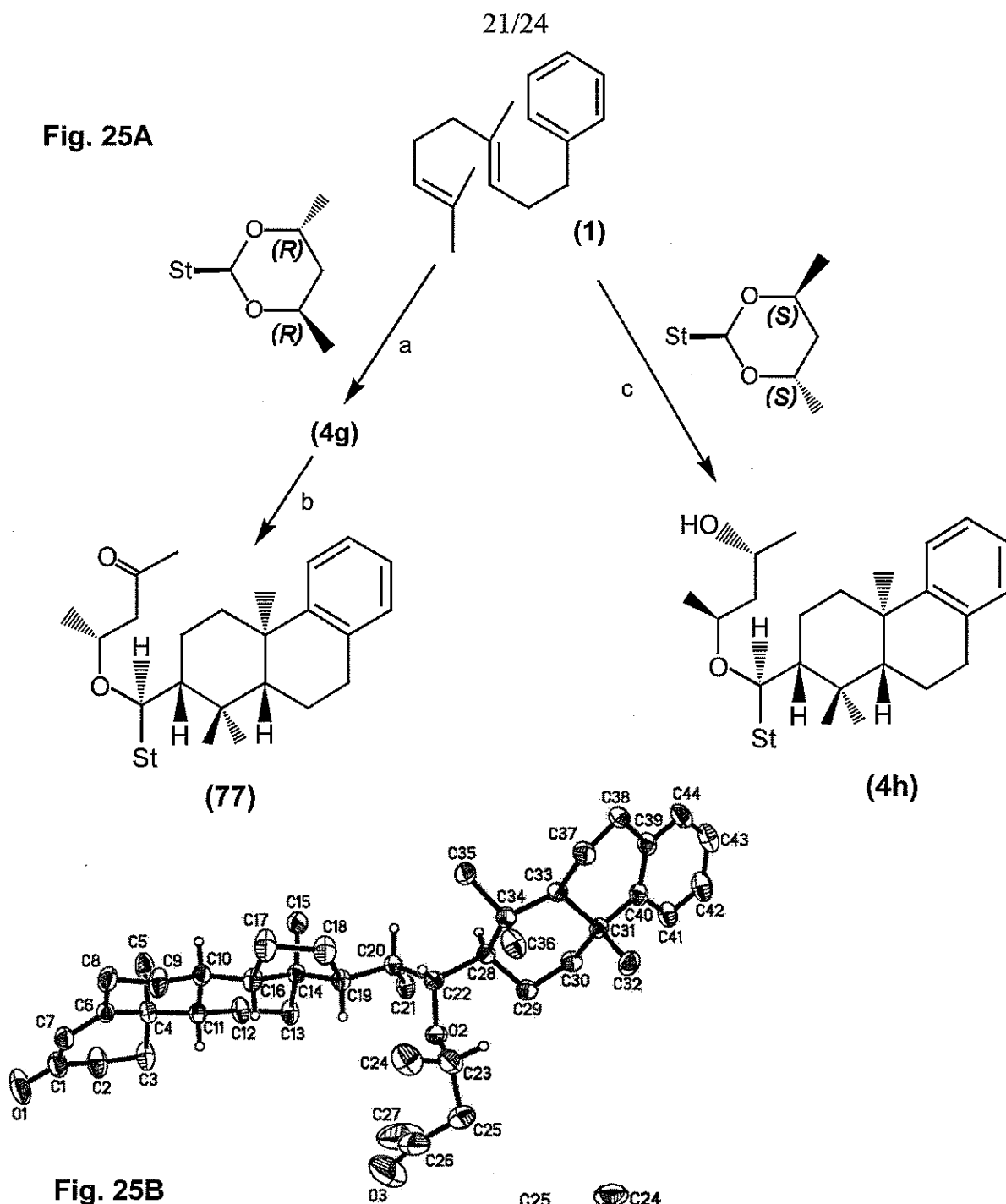


Fig. 25B

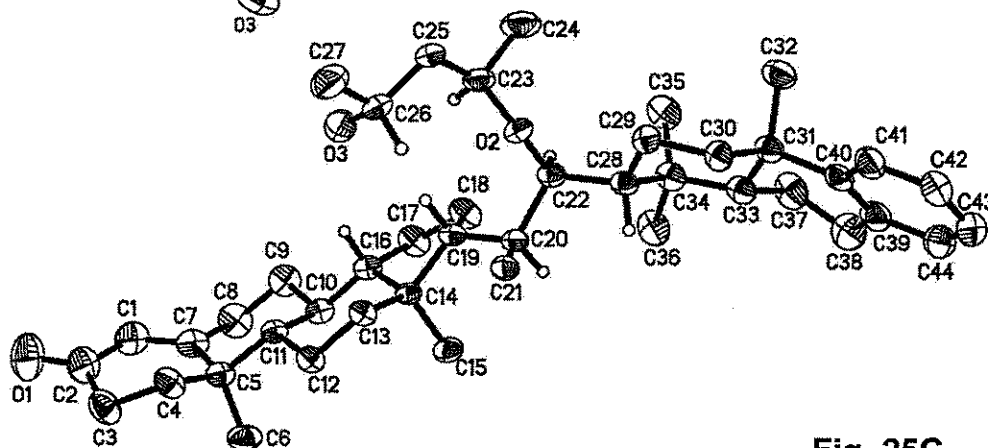
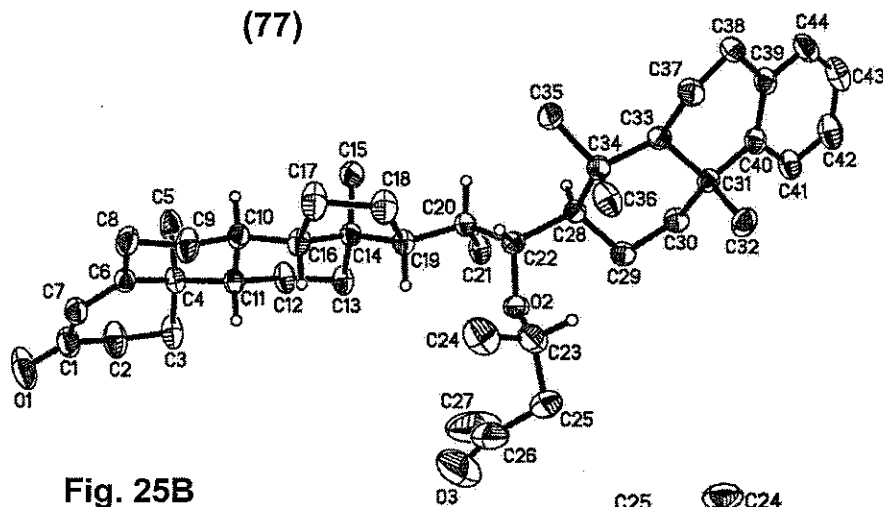


Fig. 25C

Fig. 26A

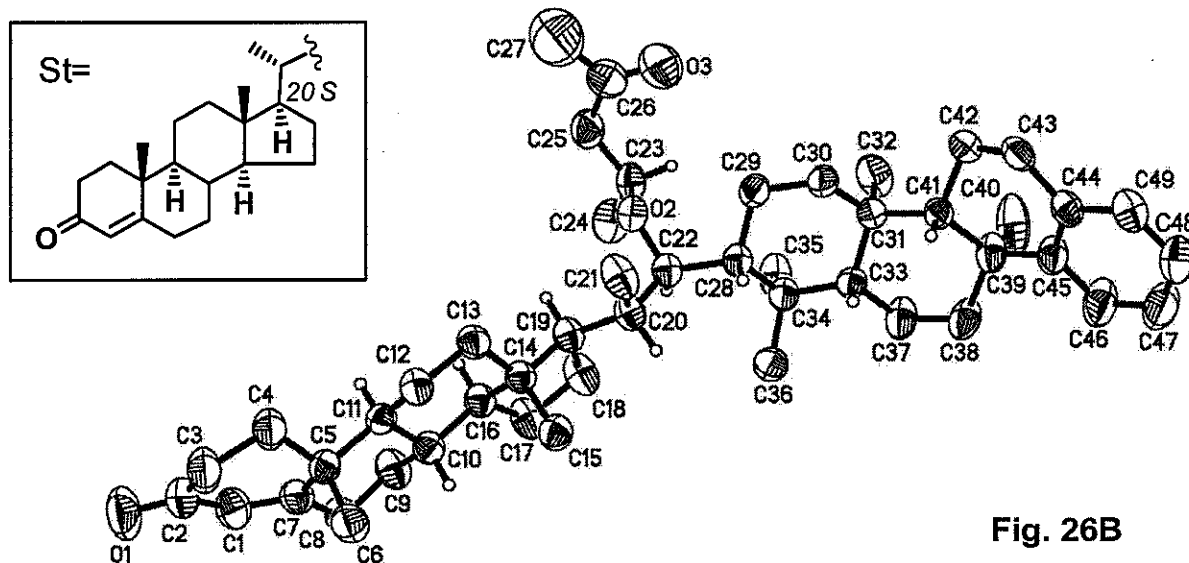
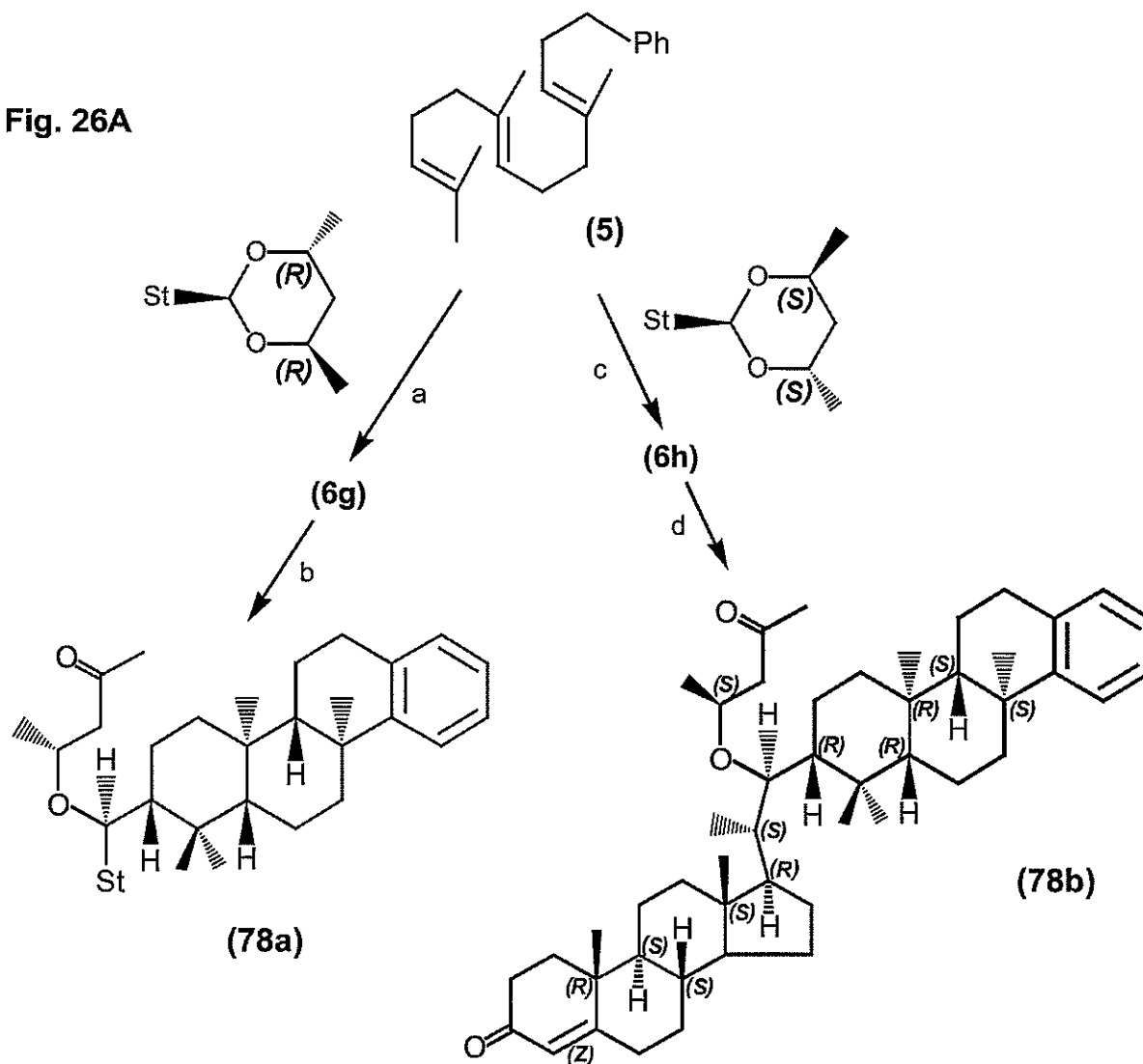
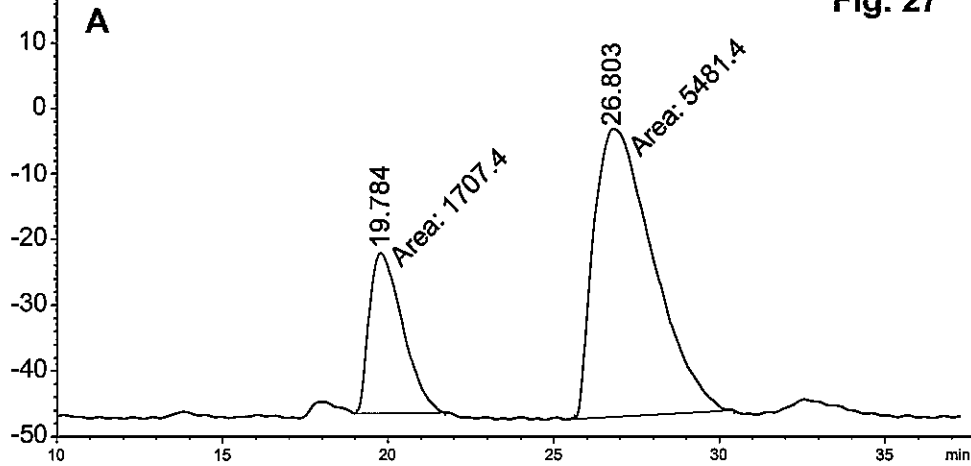


Fig. 26B

mAU MWD1 A, Sig=250,100 Ref=360,100 (ZYJ\K035C110.D)

Fig. 27



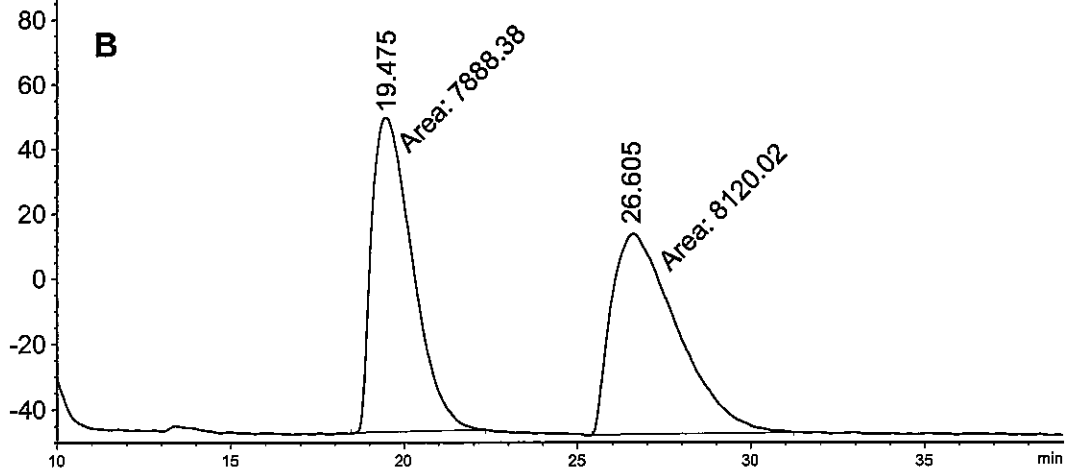
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	19.784	MM	1.1696	1707.39587	24.32938	23.7508
2	26.803	MM	2.0783	5481.40283	43.95730	76.2492

Totals : 7188.79871 68.28668

Results obtained with enhanced integrator!

*** End of Report ***

mAU MWD1 A, Sig=250,100 Ref=360,100 (ZYJK035R110.D)



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	19.475	MM	1.3609	7888.37549	96.60469	49.2765
2	26.605	MM	2.2062	8120.02246	61.34245	50.7235

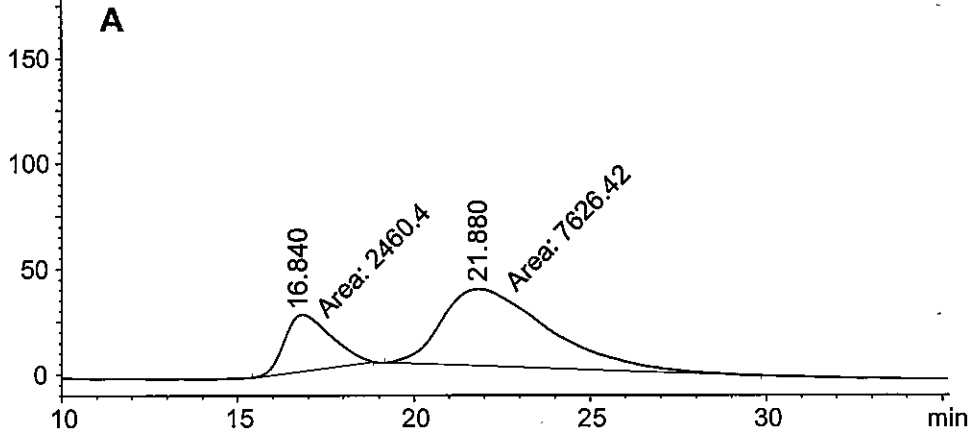
Totals : 1.60084e4 157.94714

Results obtained with enhanced integrator!

*** End of Report ***

mAU MWD1 B, Sig=254,16 Ref=360,100 (ZYJK085C-30.D)

Fig. 28



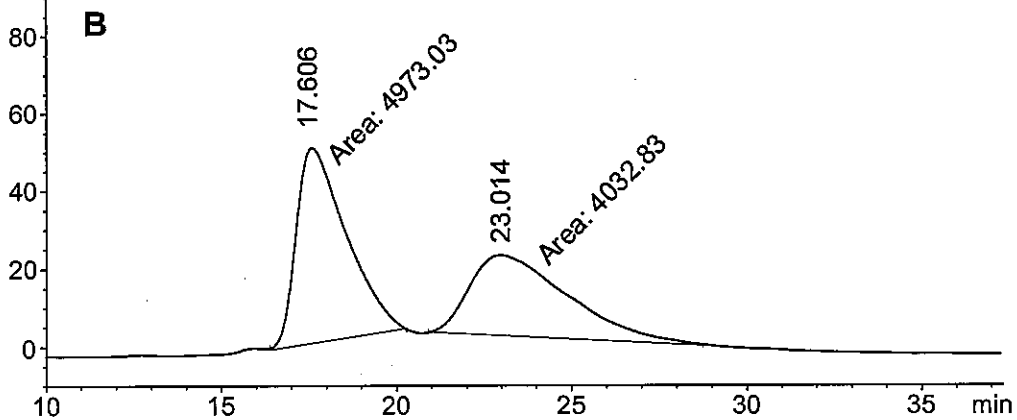
Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	16.840	MM	1.5265	2460.40283	26.86367	24.3922
2	21.880	MM	3.5053	7626.41943	36.26128	75.6078

Totals : 1.00868e4 63.12495

Results obtained with enhanced integrator!

*** End of Report ***

mAU MWD1 B, Sig=254,16 Ref=360,100 (ZYJK085R-20.D)



Peak #	RetTime [min]	Type	Width [min]	Area [mAU*s]	Height [mAU]	Area %
1	17.606	MM	1.6534	4973.03467	50.13036	55.2200
2	23.014	MM	3.2552	4032.82764	20.64808	44.7800

Totals : 9005.86230 70.77845

Results obtained with enhanced integrator!

*** End of Report ***