

Supplementary Materials S2: All chemical structures of fungal meroterpenoids newly discovered in 2009-2019

The Chemistry and Biology of Fungal Meroterpenoids (2009-2019)

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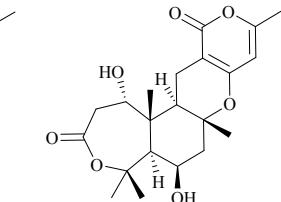
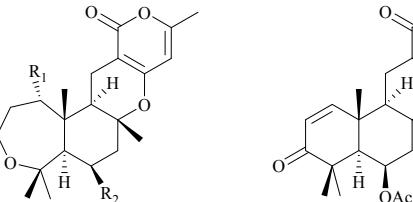
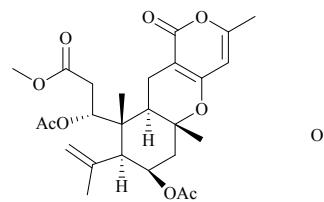
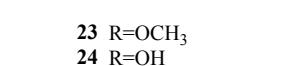
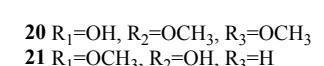
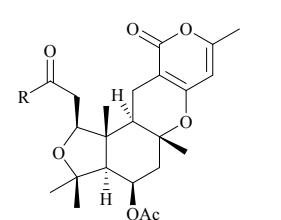
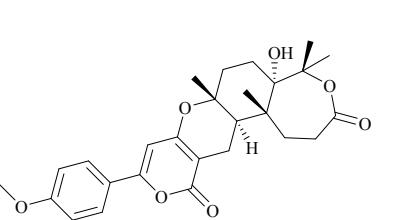
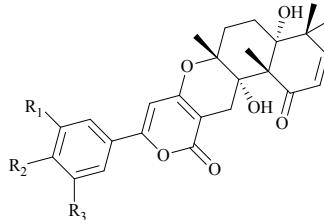
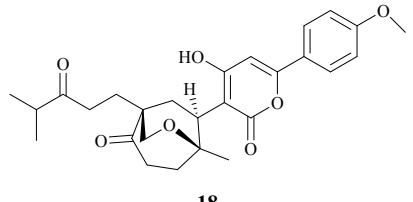
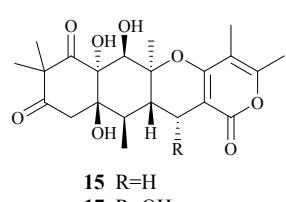
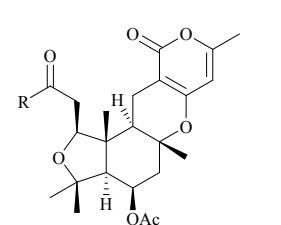
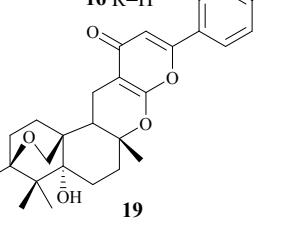
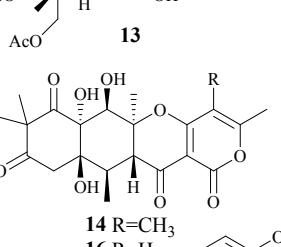
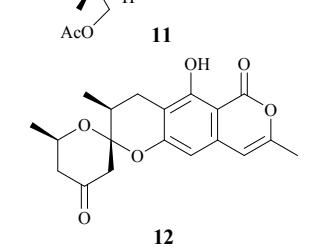
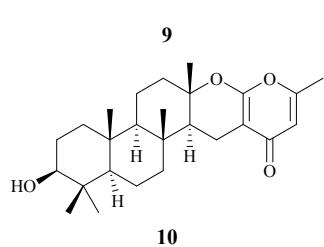
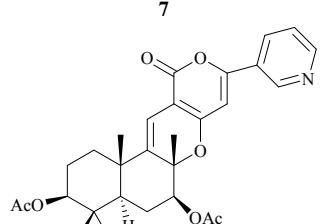
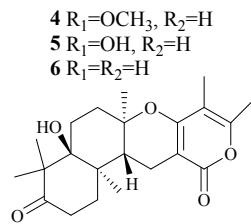
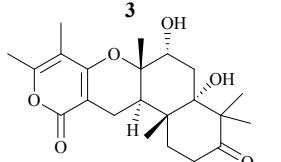
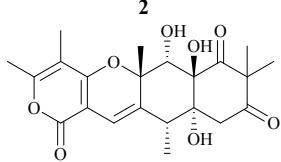
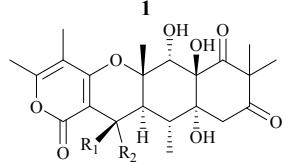
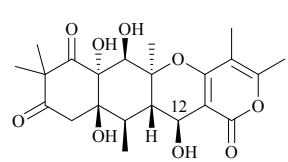
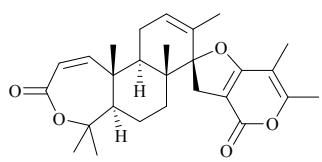
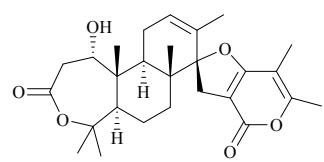
† These authors contributed equally to this work.

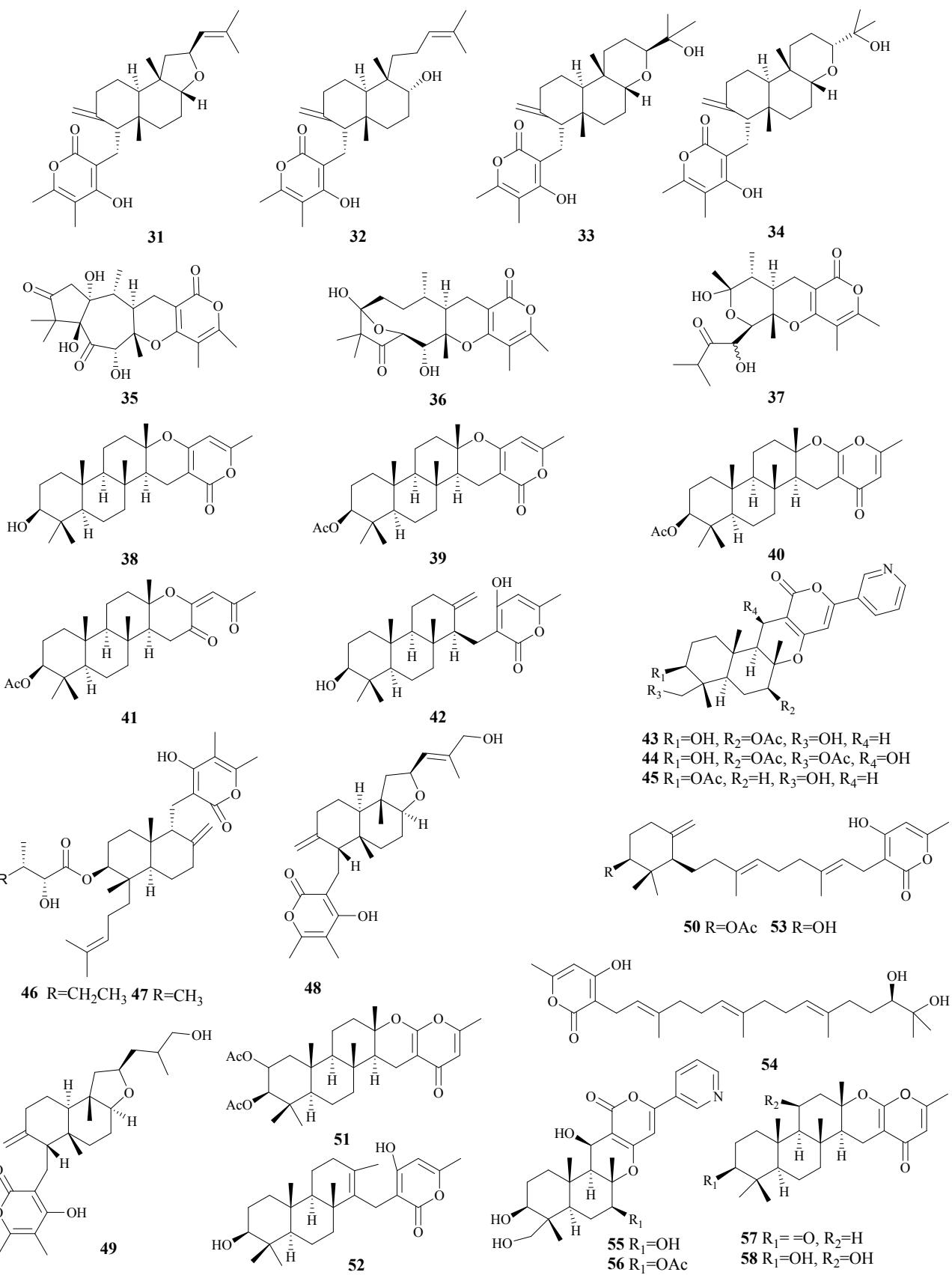
* Correspondence: *cesllan@mail.sysu.edu.cn* (L.L.); *chensenh@mail.sysu.edu.cn* (S.C.); Tel.: +86-020-84725459

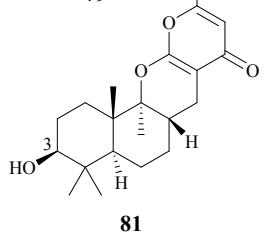
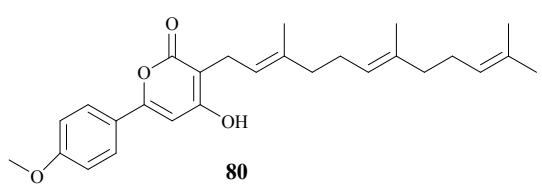
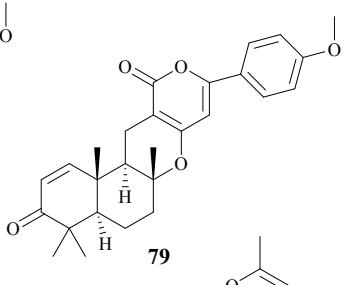
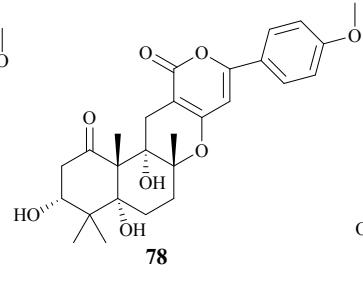
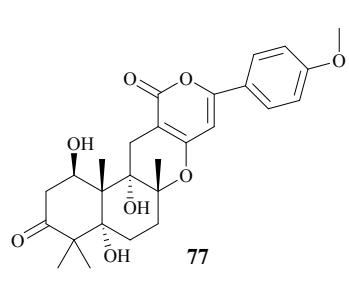
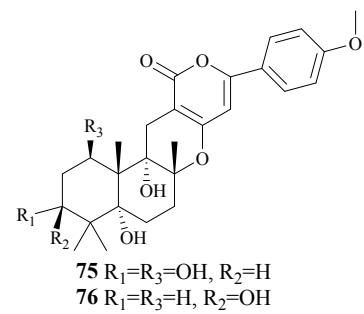
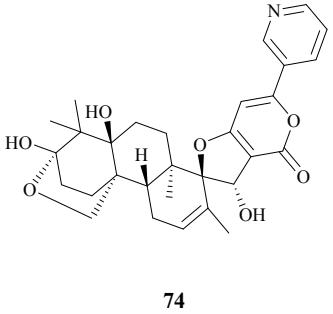
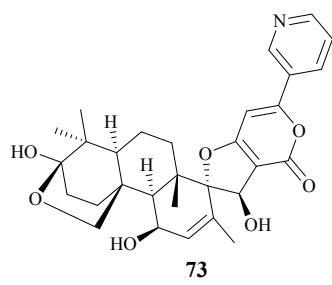
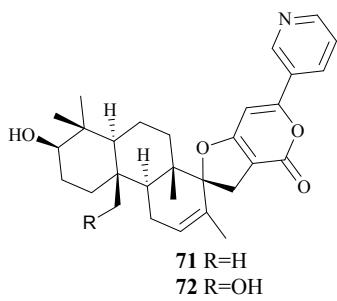
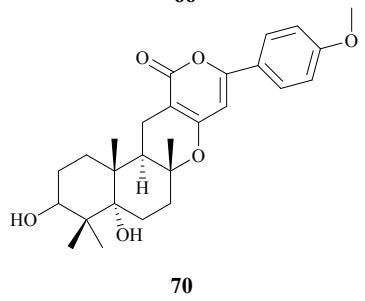
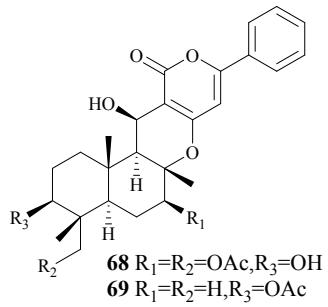
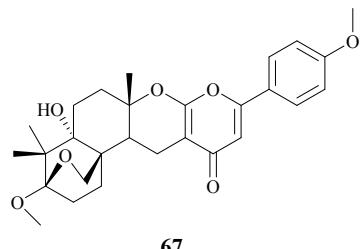
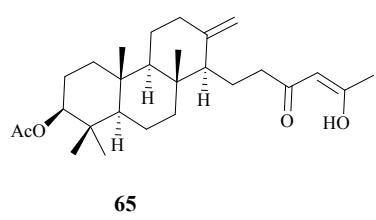
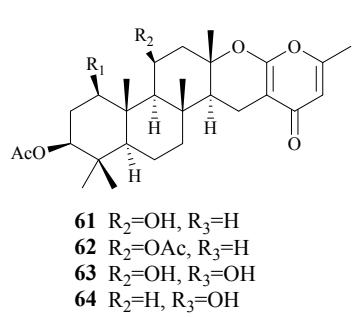
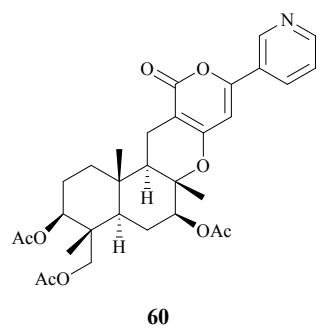
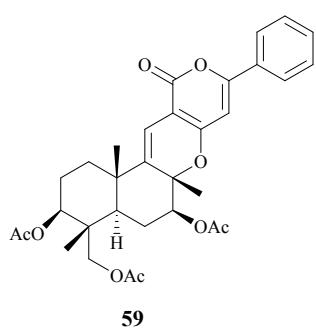
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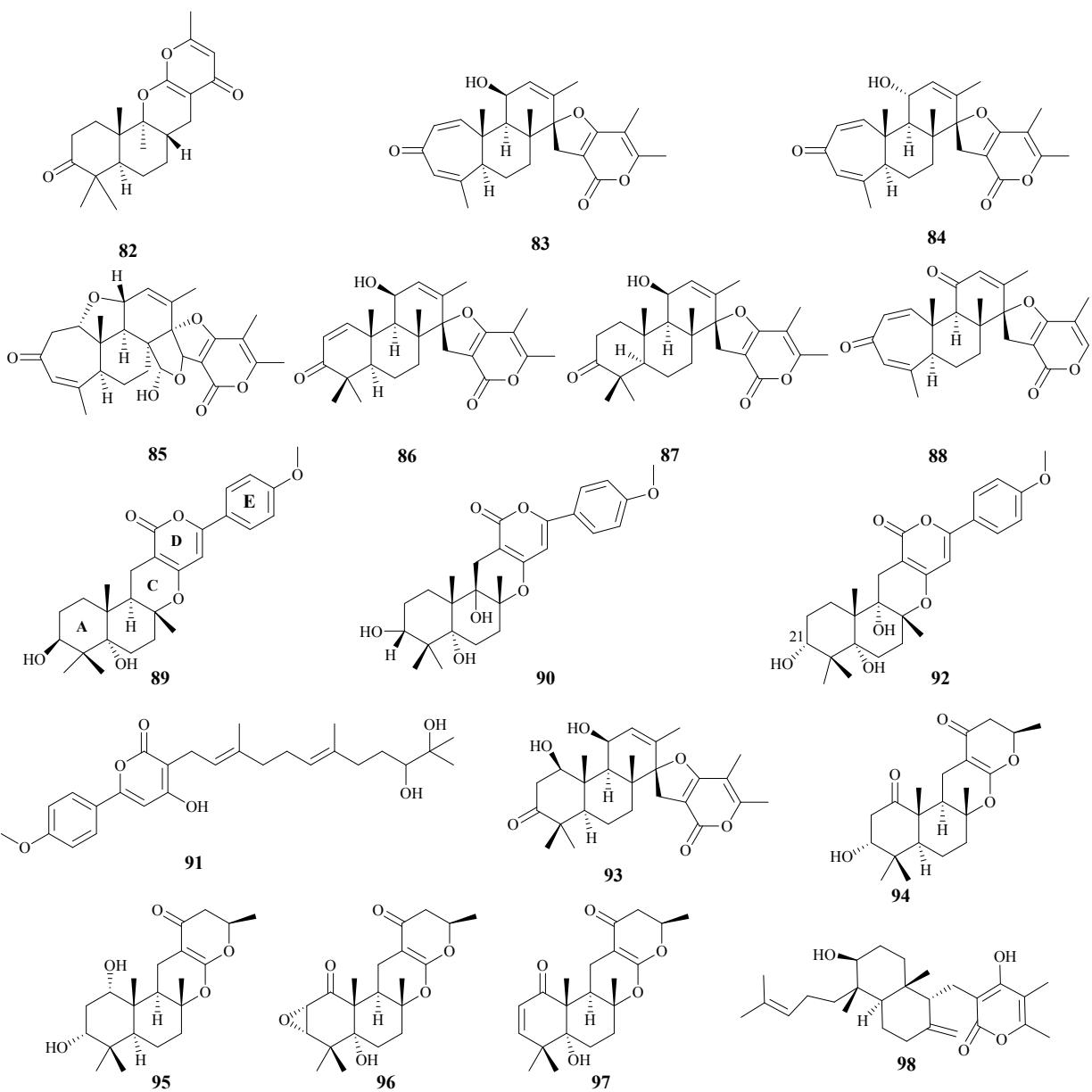
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1. Triketide-terpenoids (1-98)



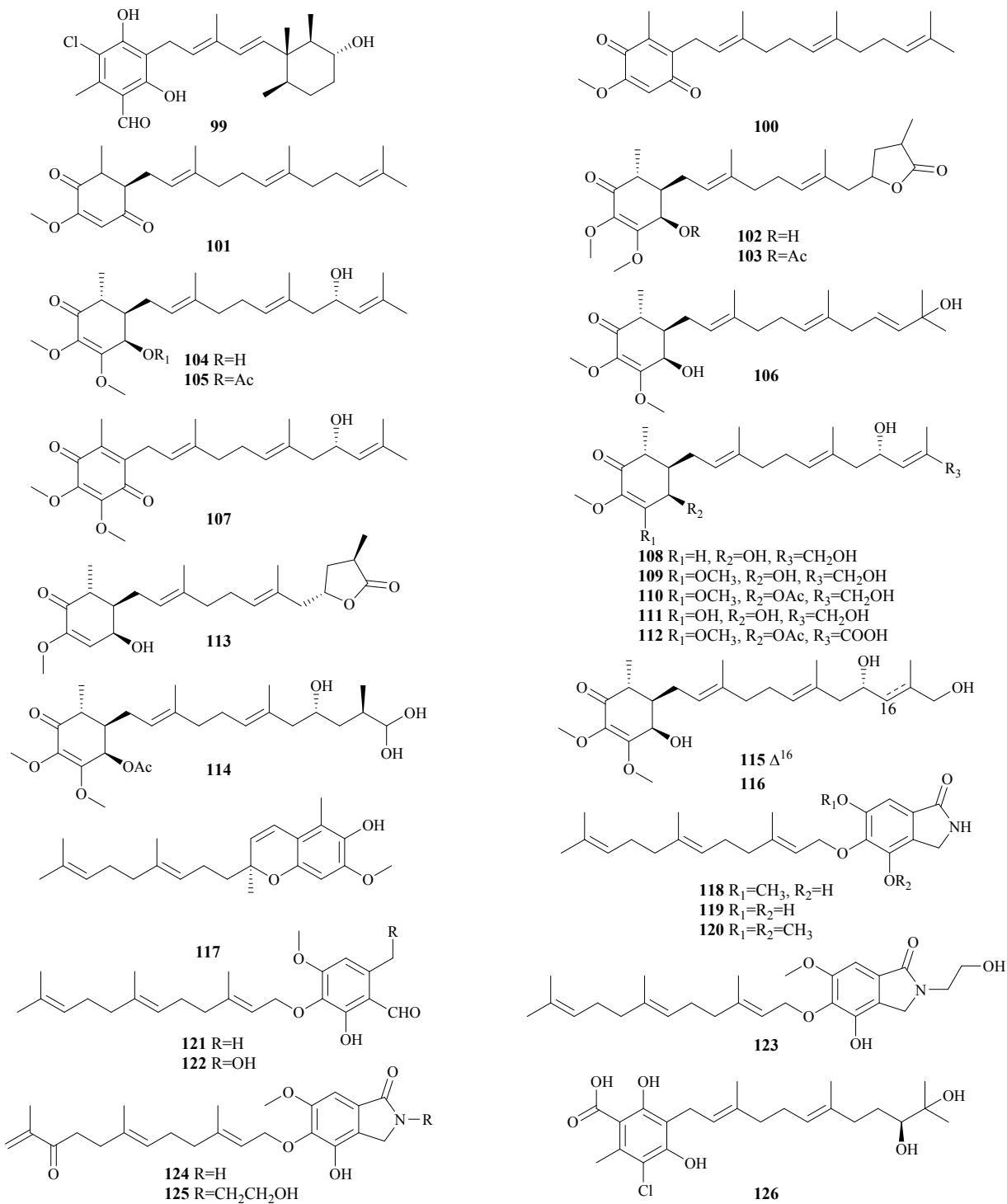


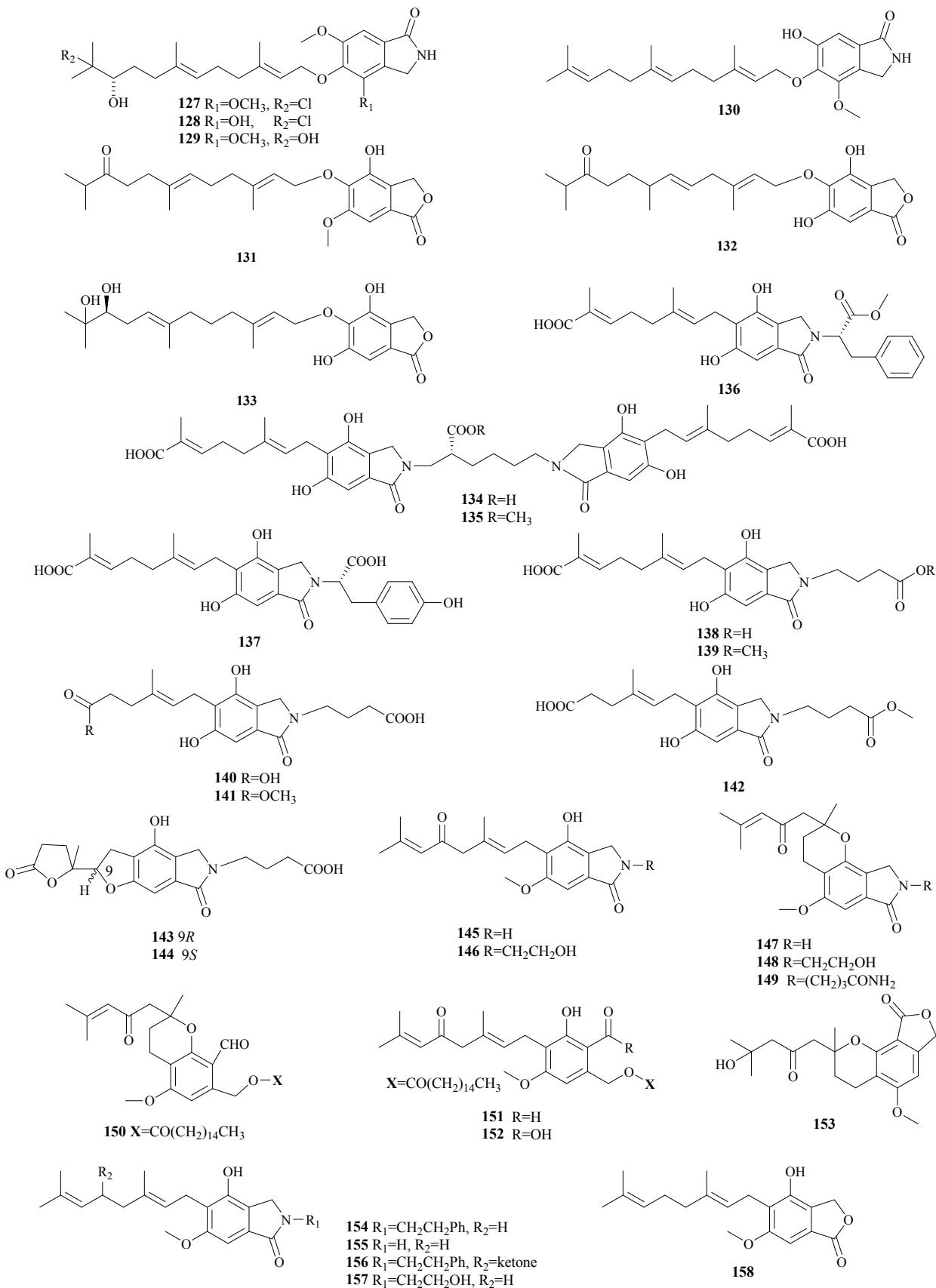


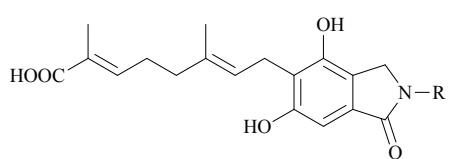


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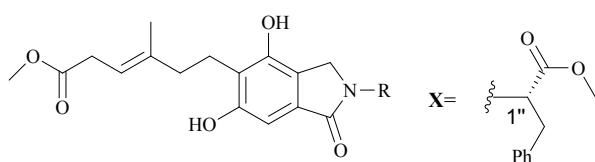
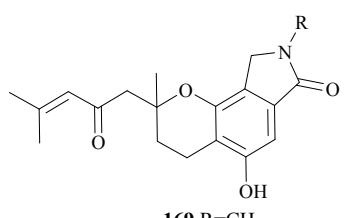
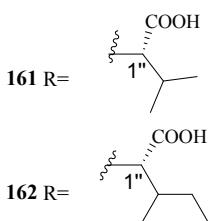
2.1 Derived from Orsellinic acid/orcinaldehyde (99-323)



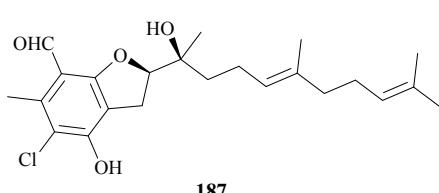
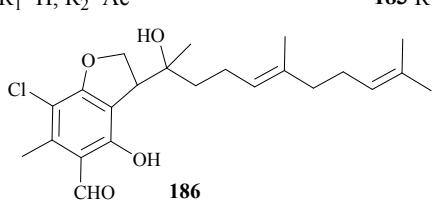
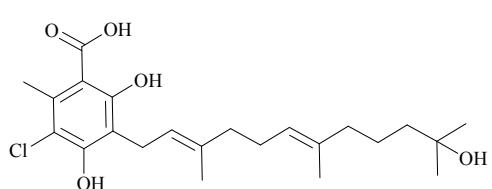
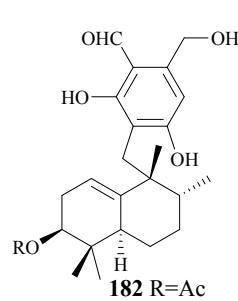
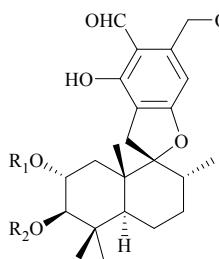
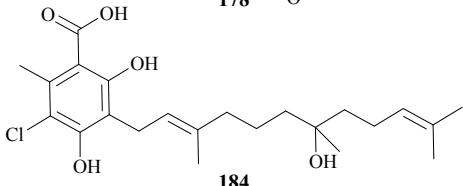
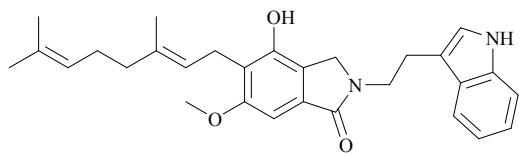
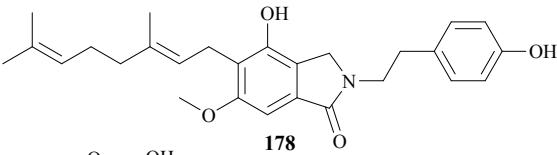
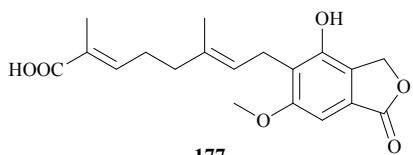
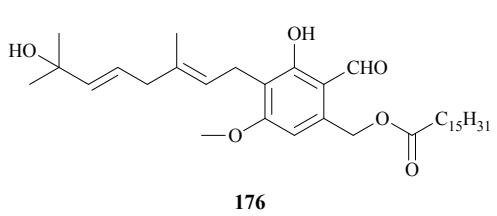
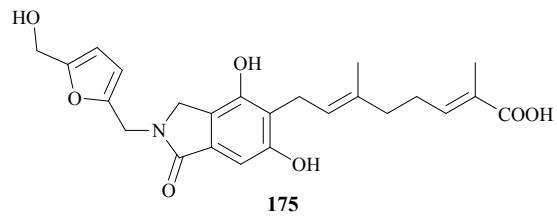
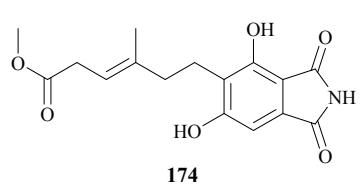
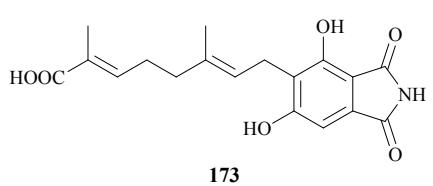
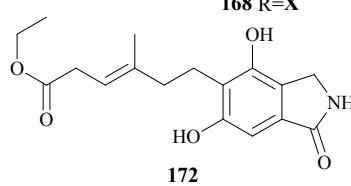
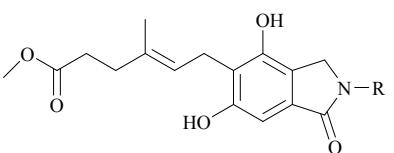


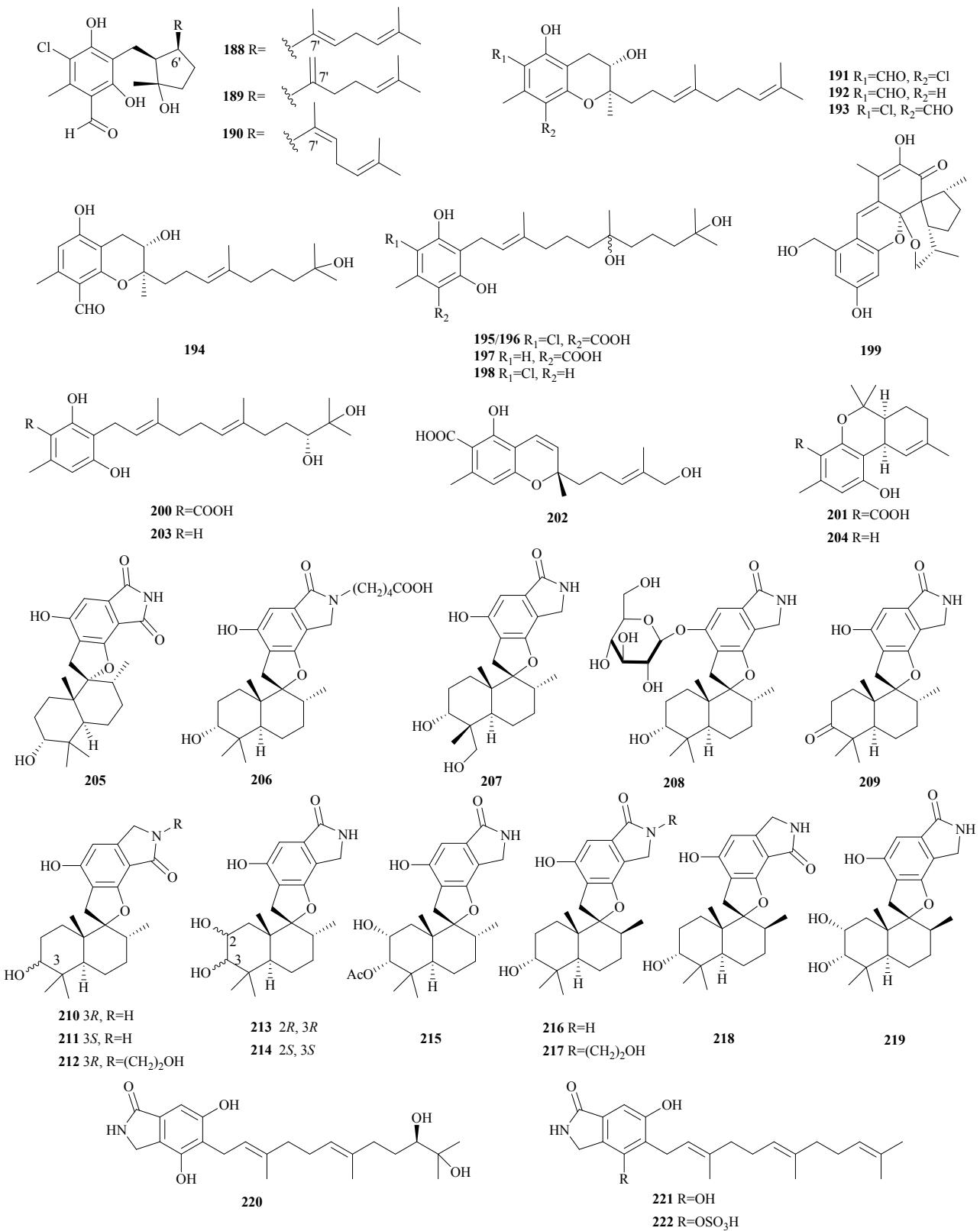


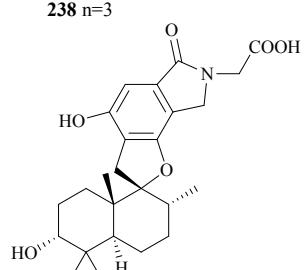
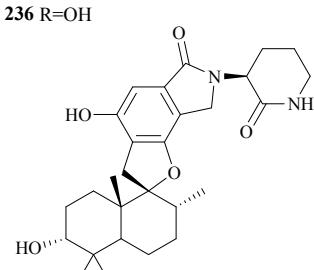
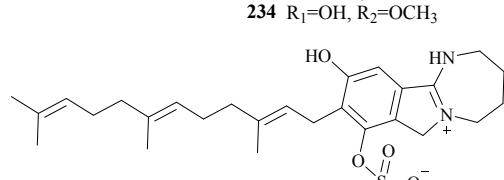
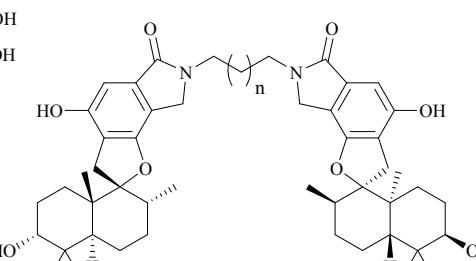
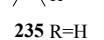
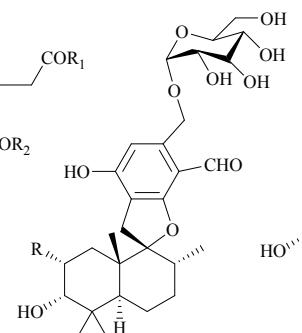
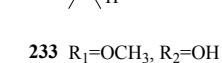
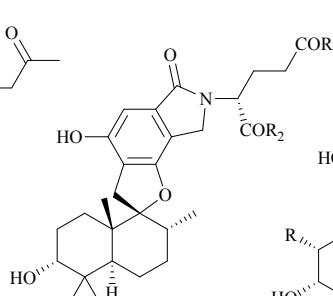
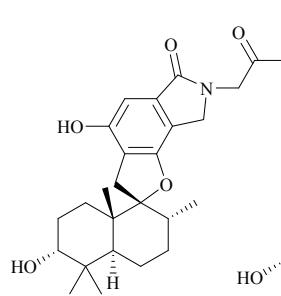
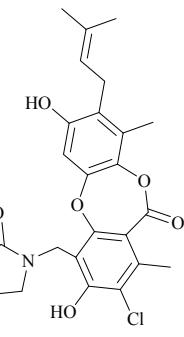
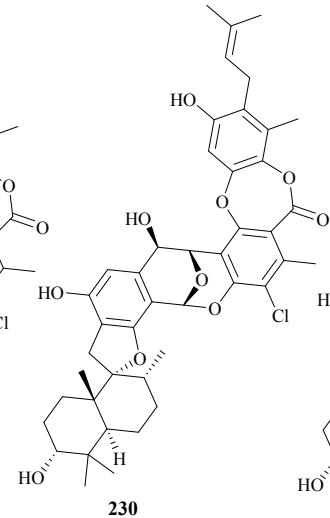
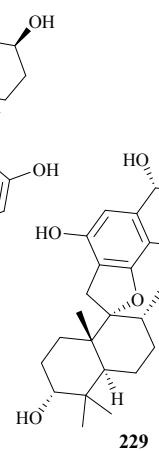
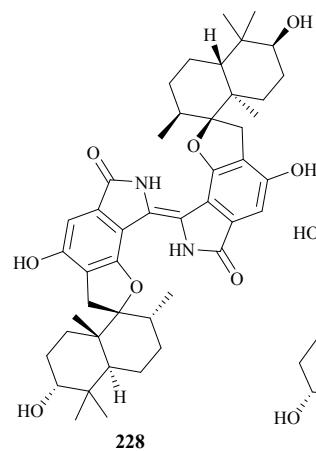
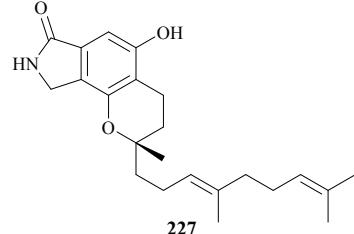
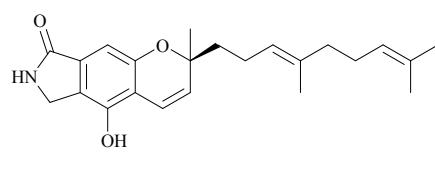
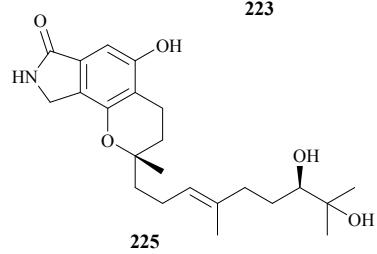
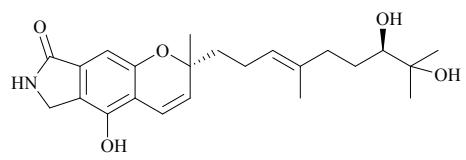
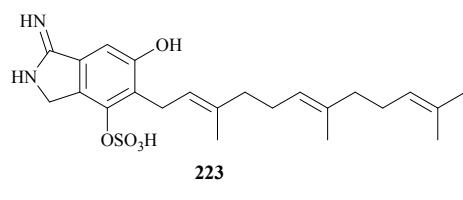
159 R=H
160 R=CH₂CH₂OH
171 R=CH₂CH₂Ph

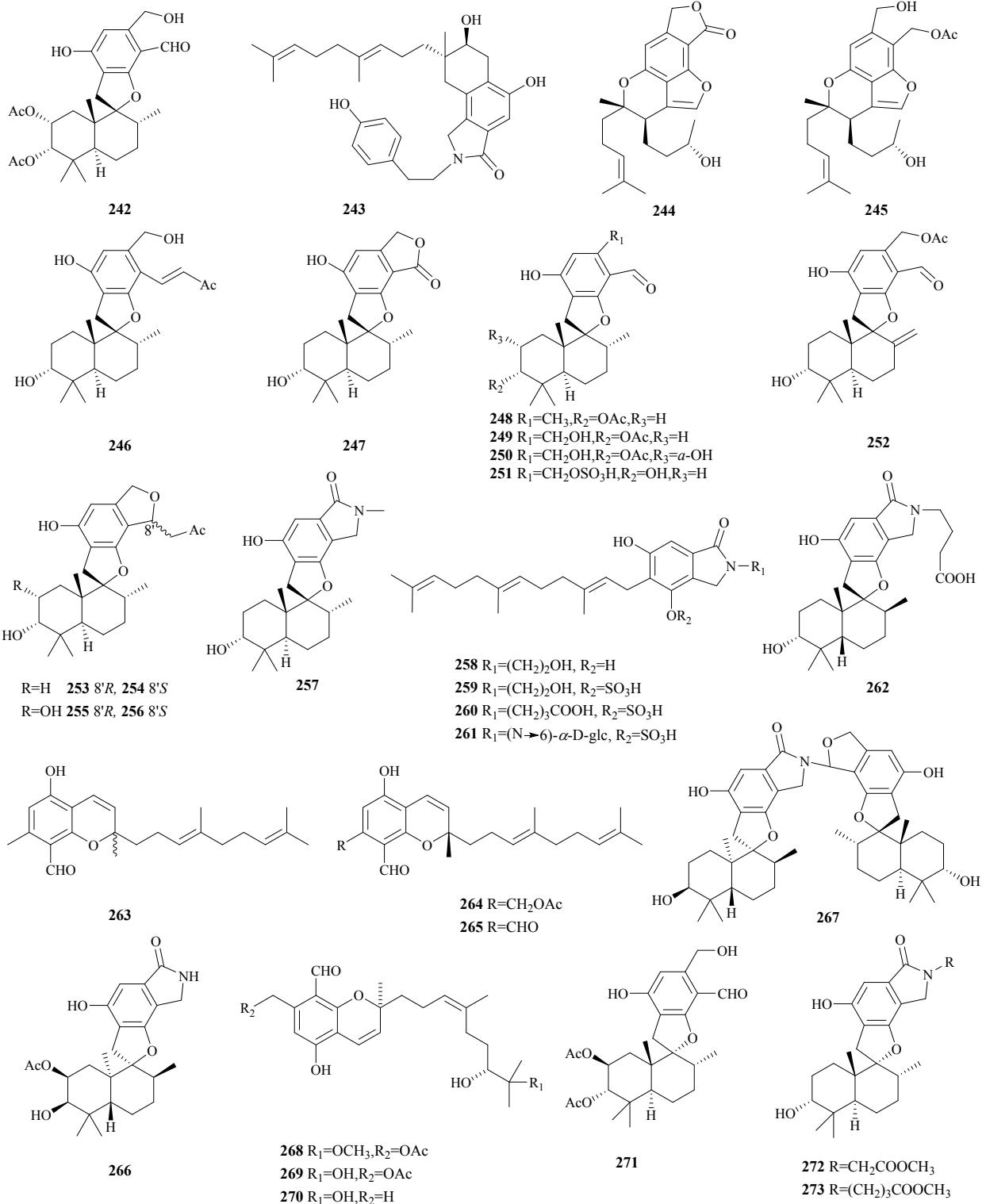


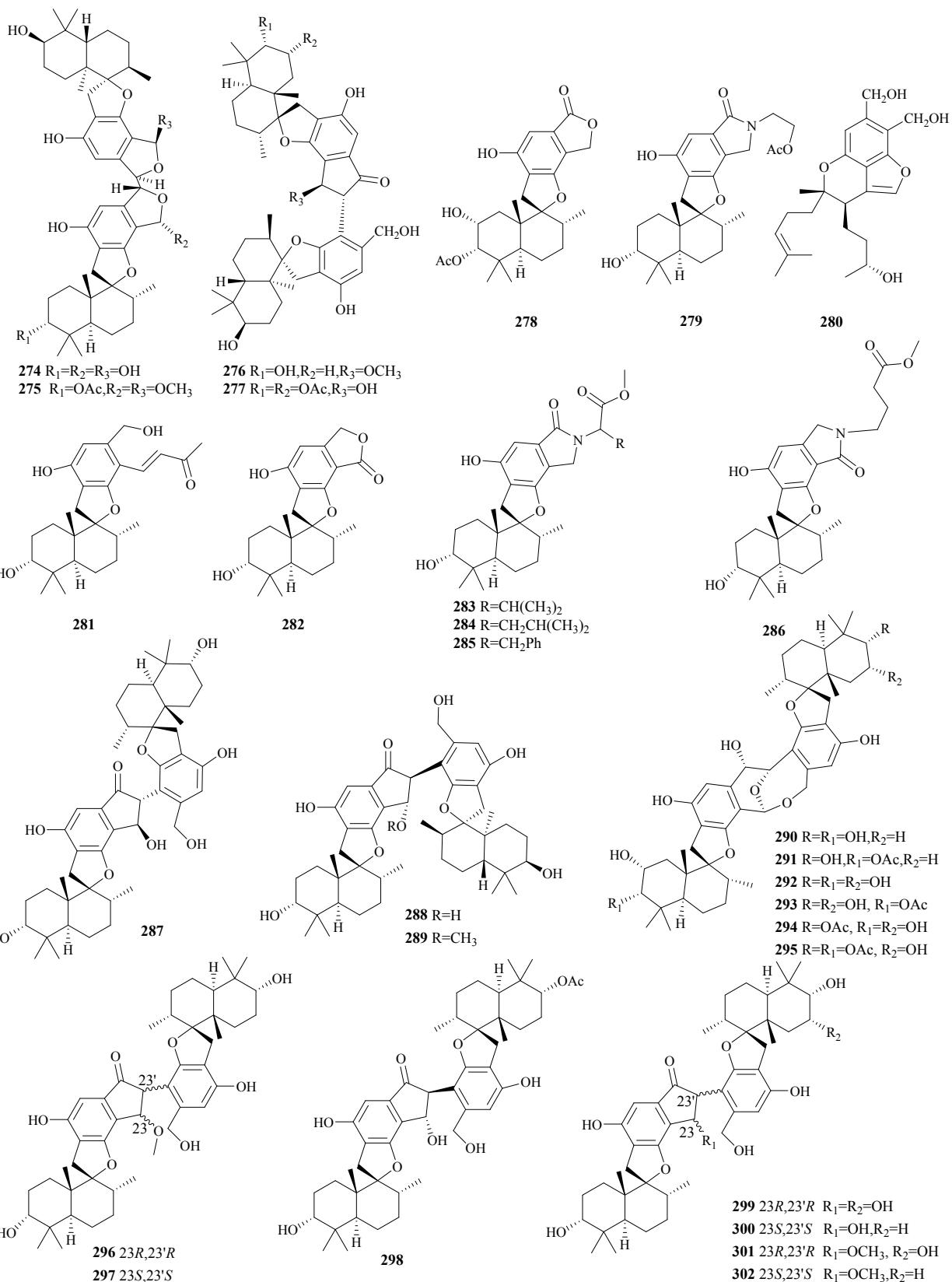
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166 R=CH₂CH₂OH
168 R=X

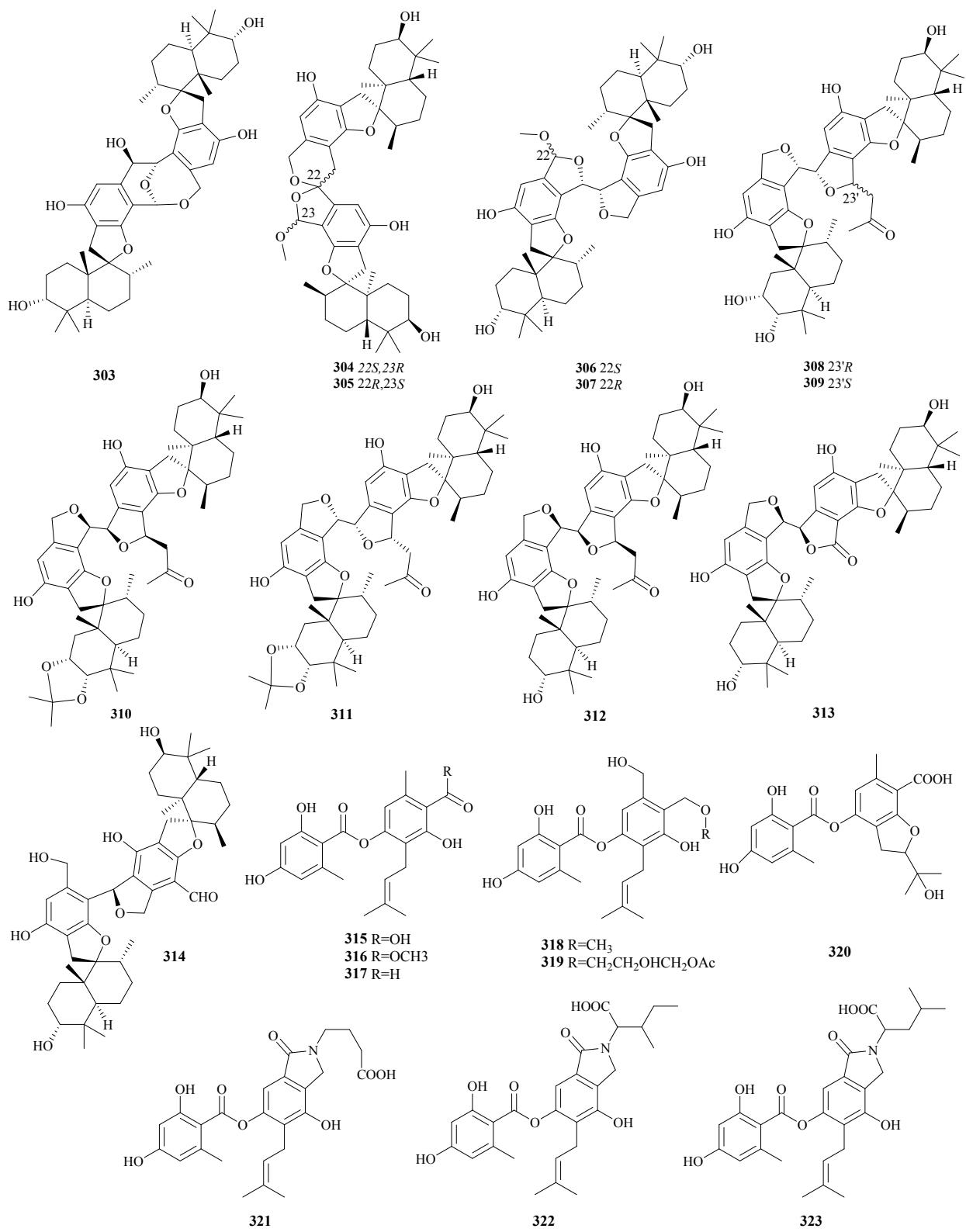




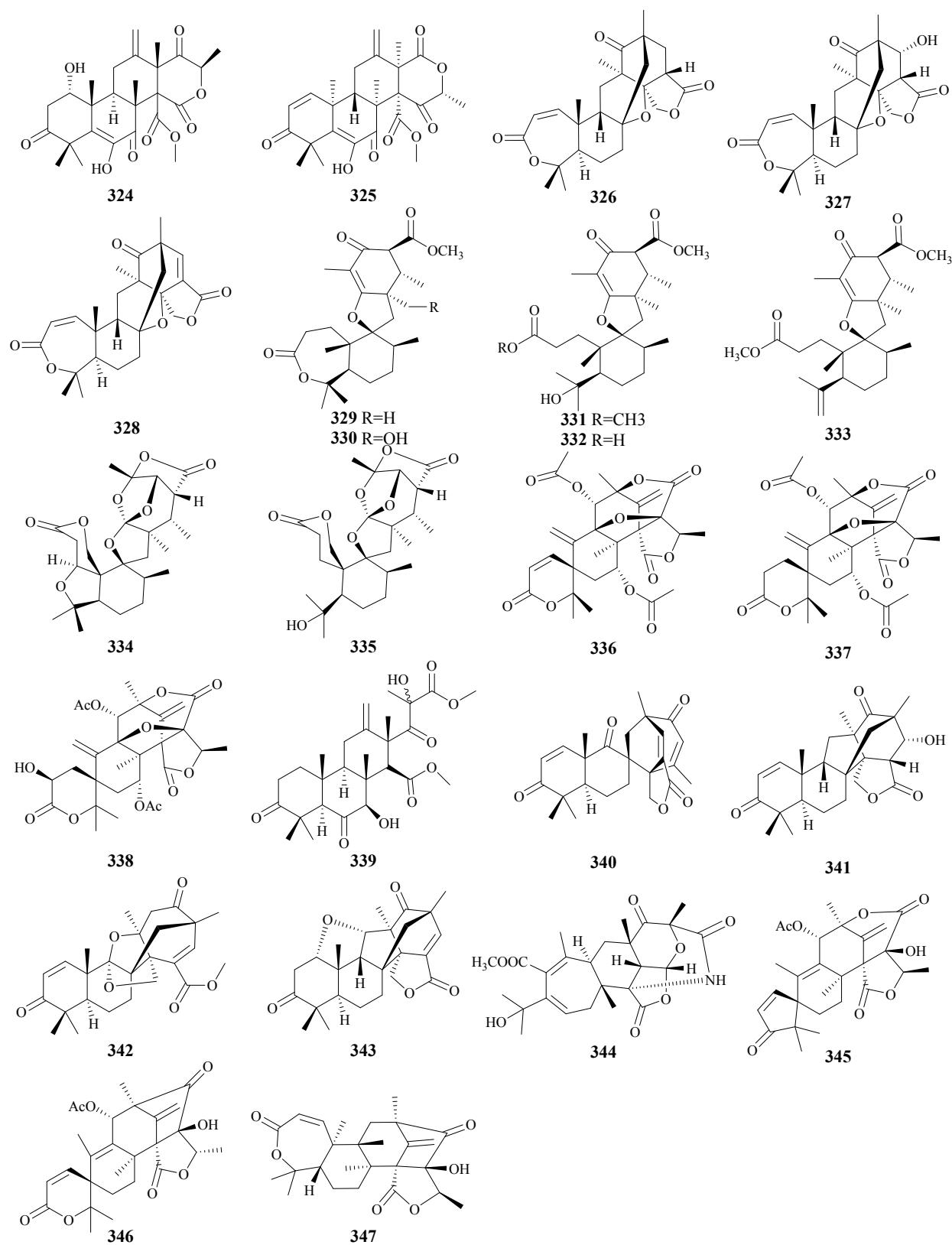


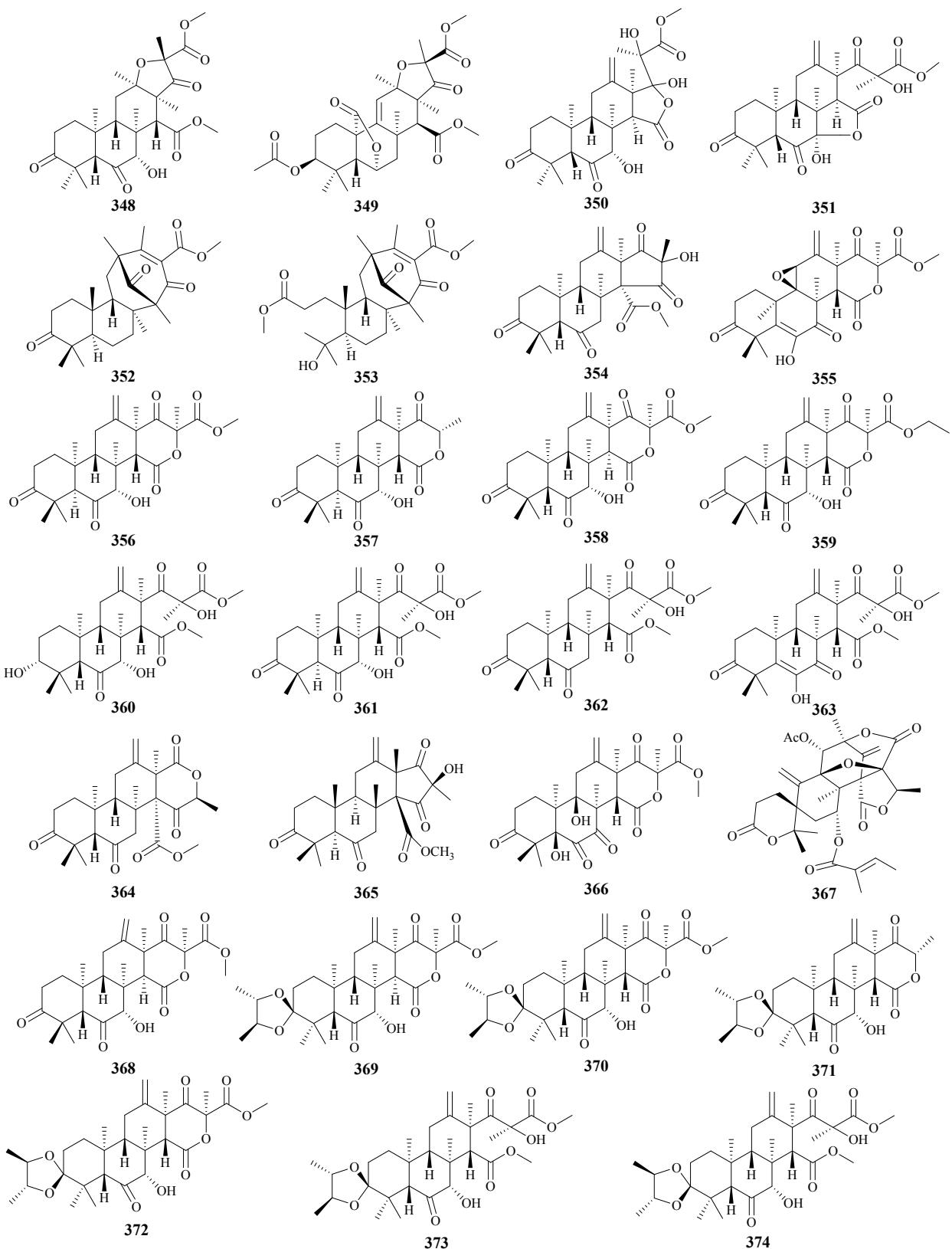


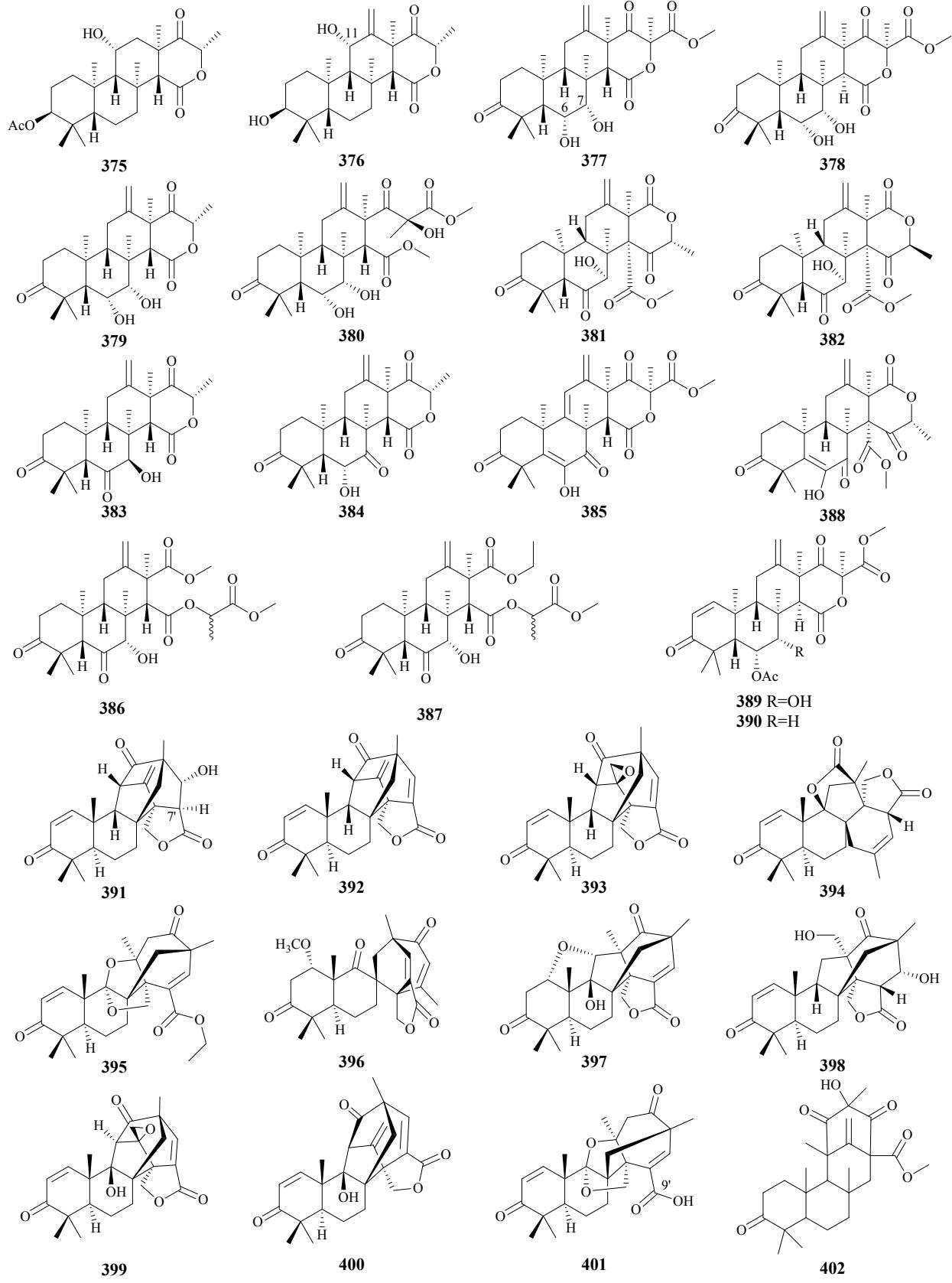


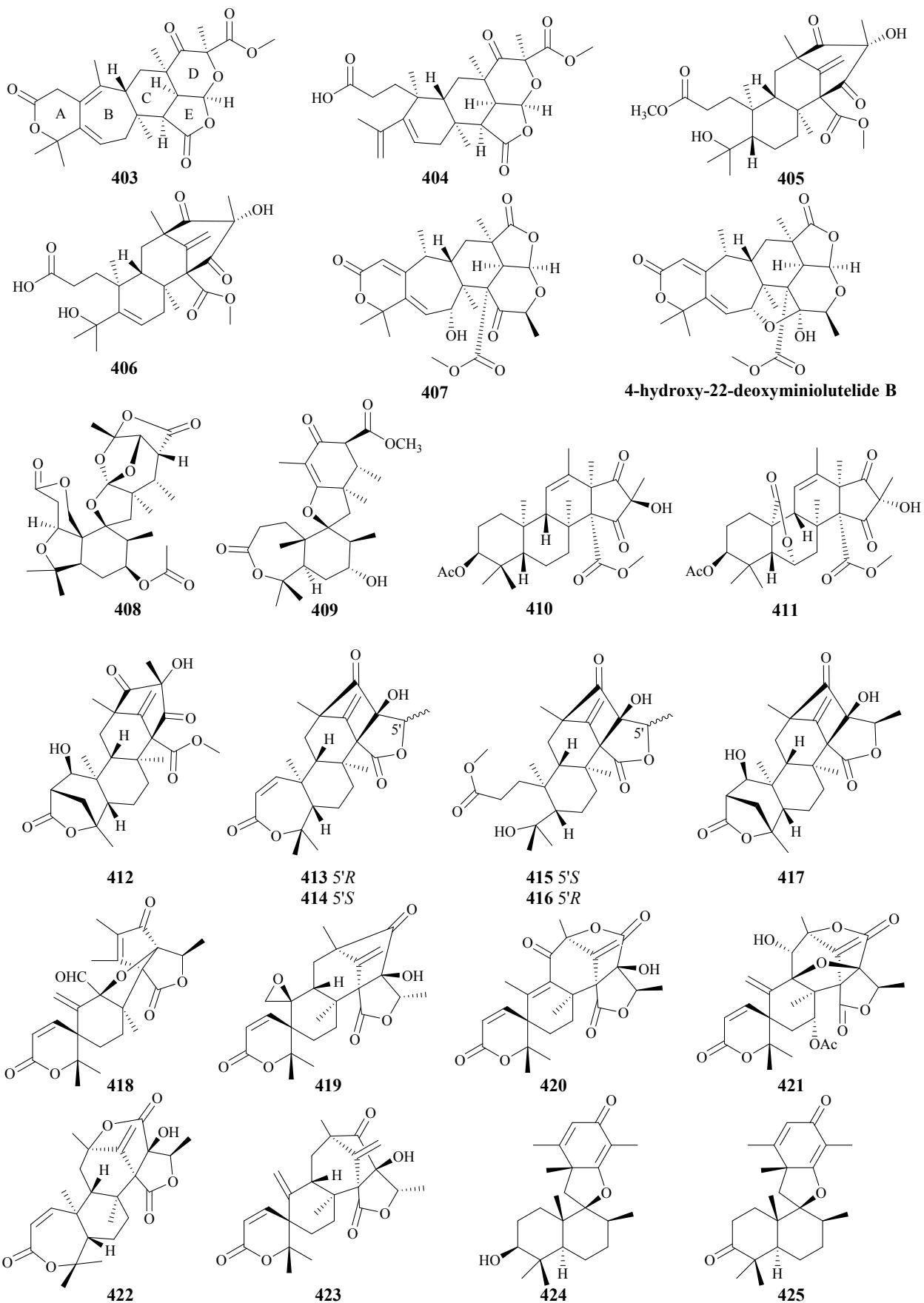


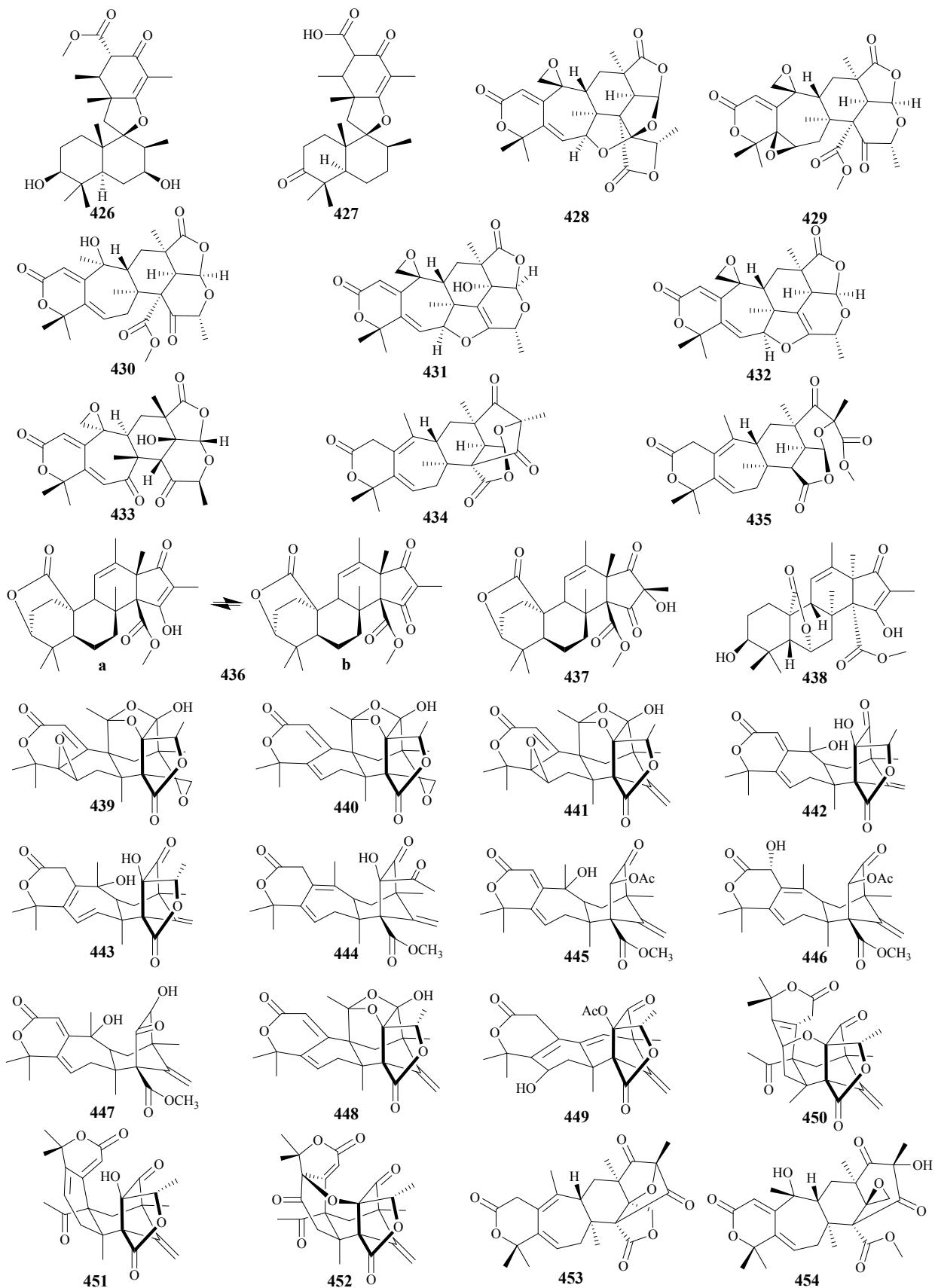
2.2 Derived from 3,5-Dimethylorsellinic acid (DMOA) (324-492)

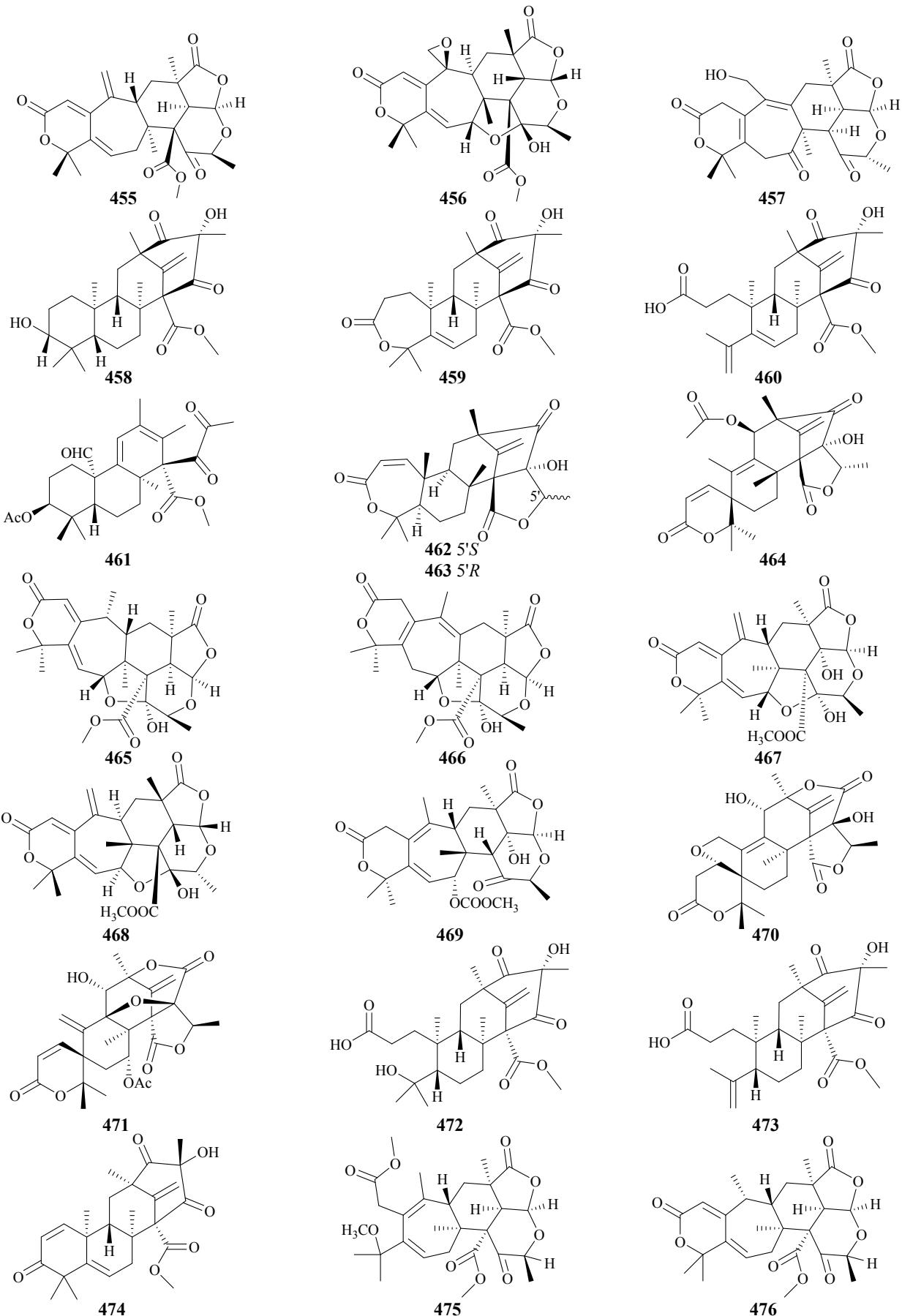


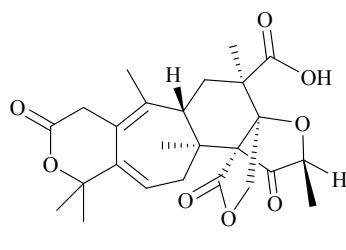




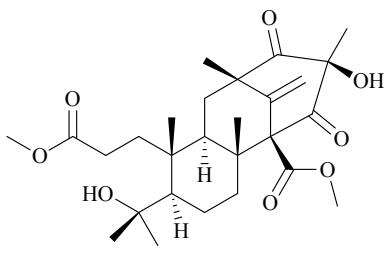




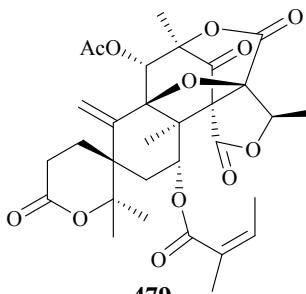




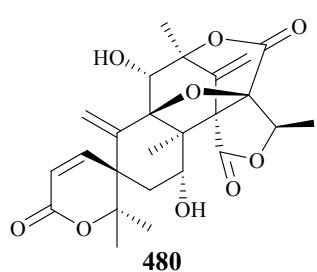
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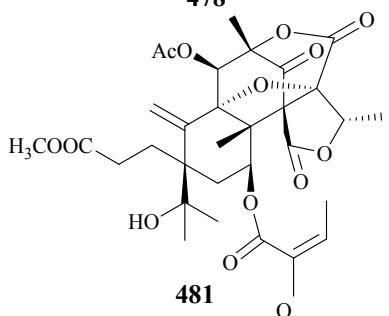
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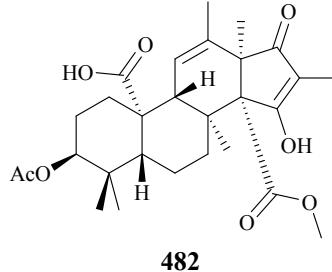
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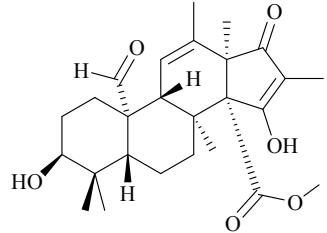
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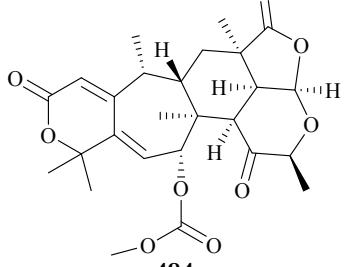
481



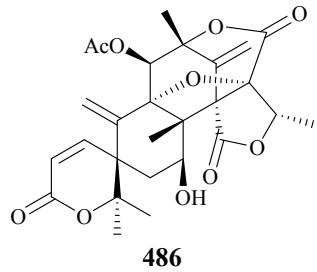
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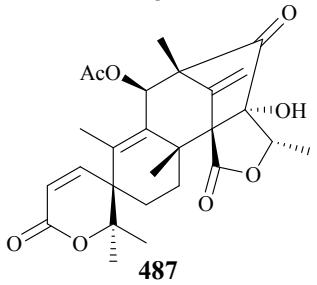
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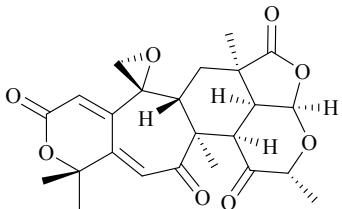
484



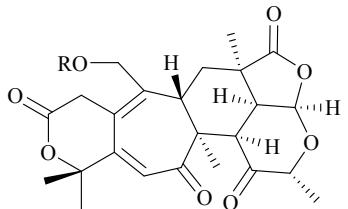
486



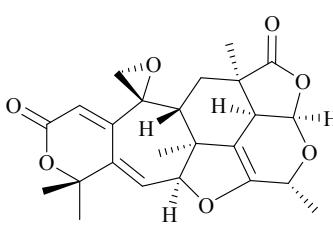
488



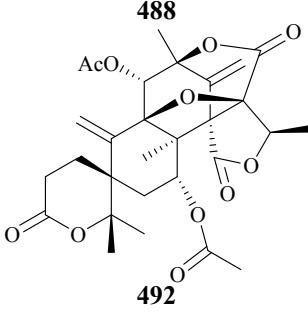
489



490 R=Ac



488



492

2.3.

Deriv

ed

from

6-

Meth

vls2

ylie

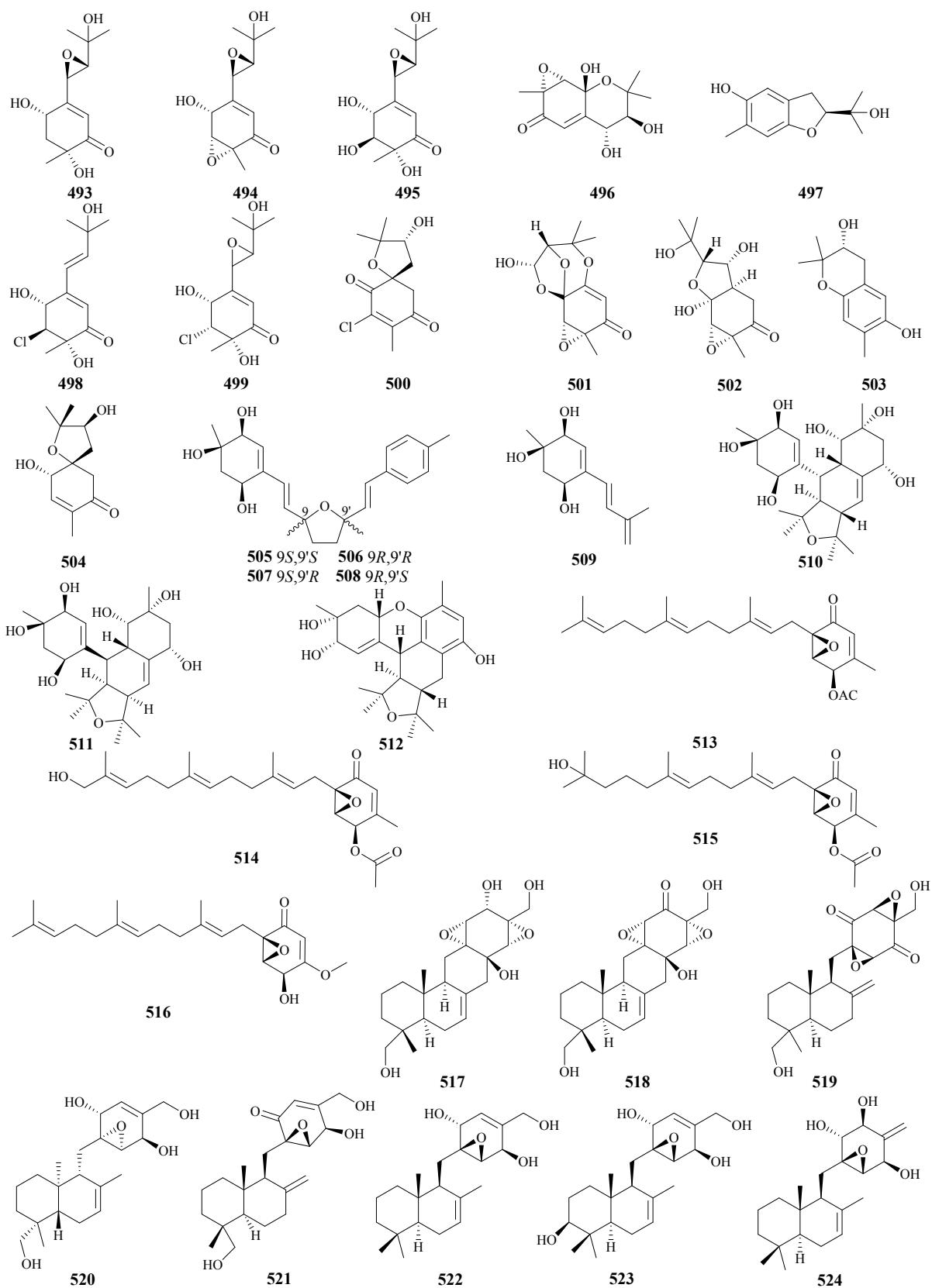
acid

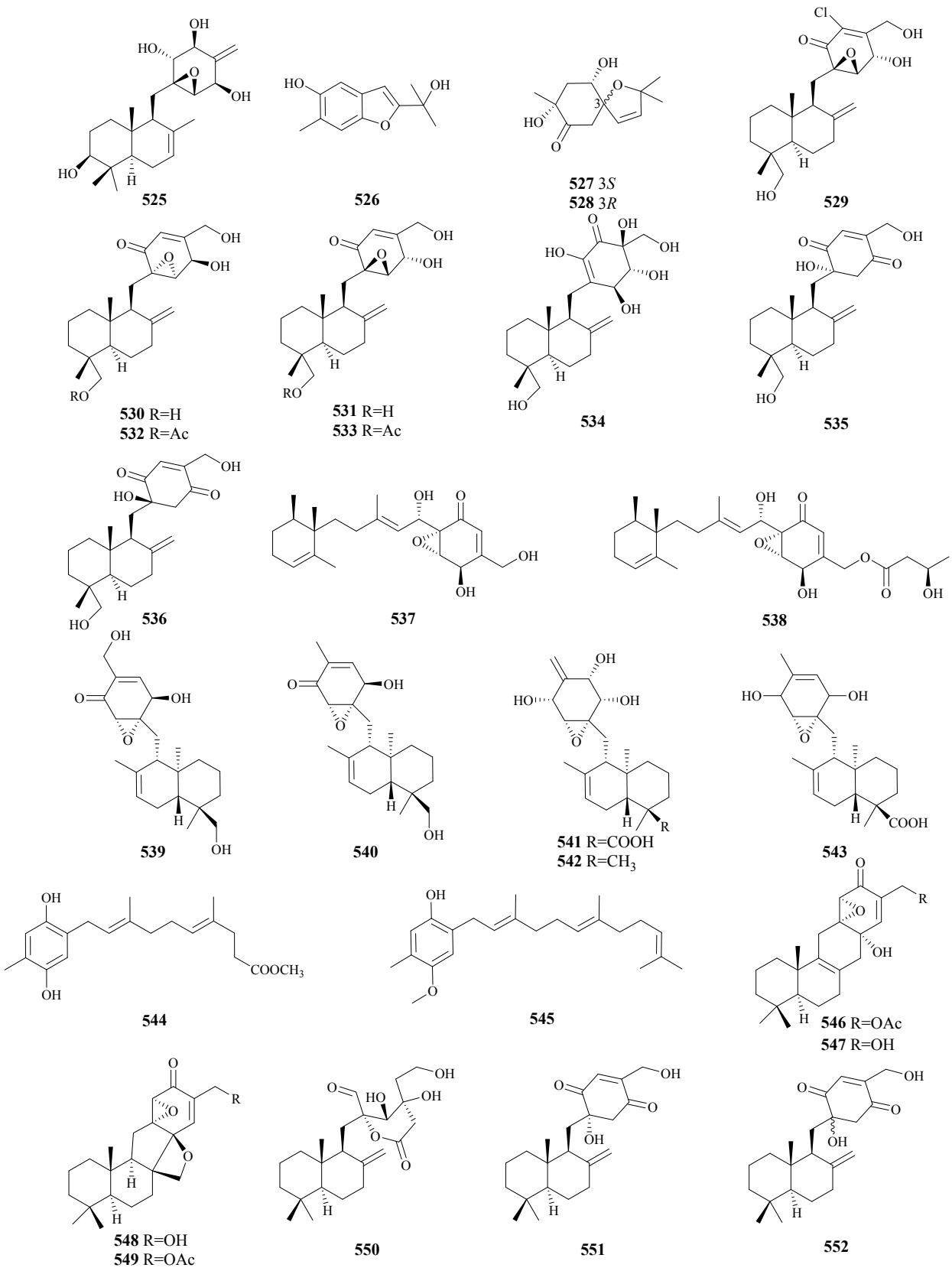
66

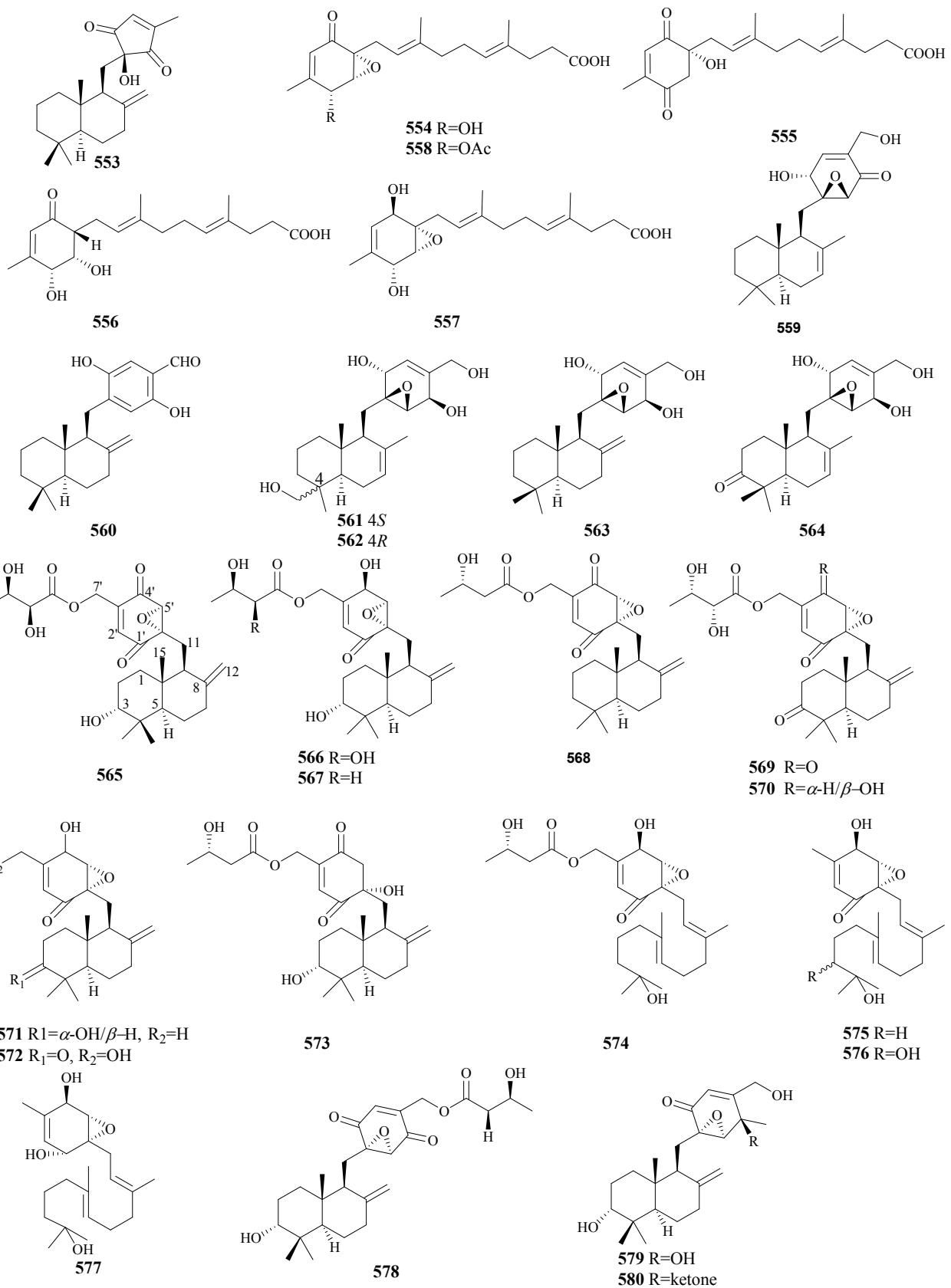
MS A)

6403

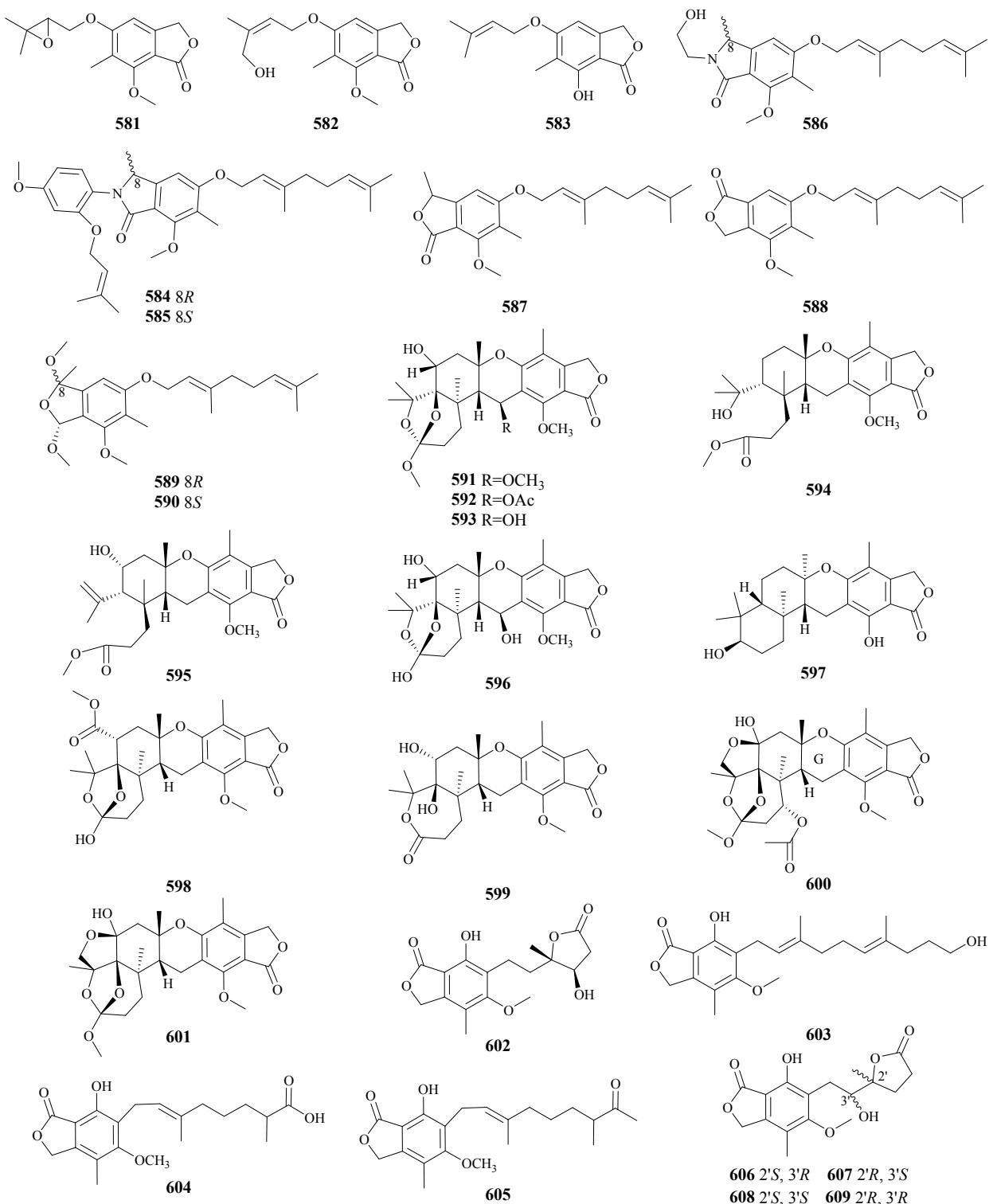
500

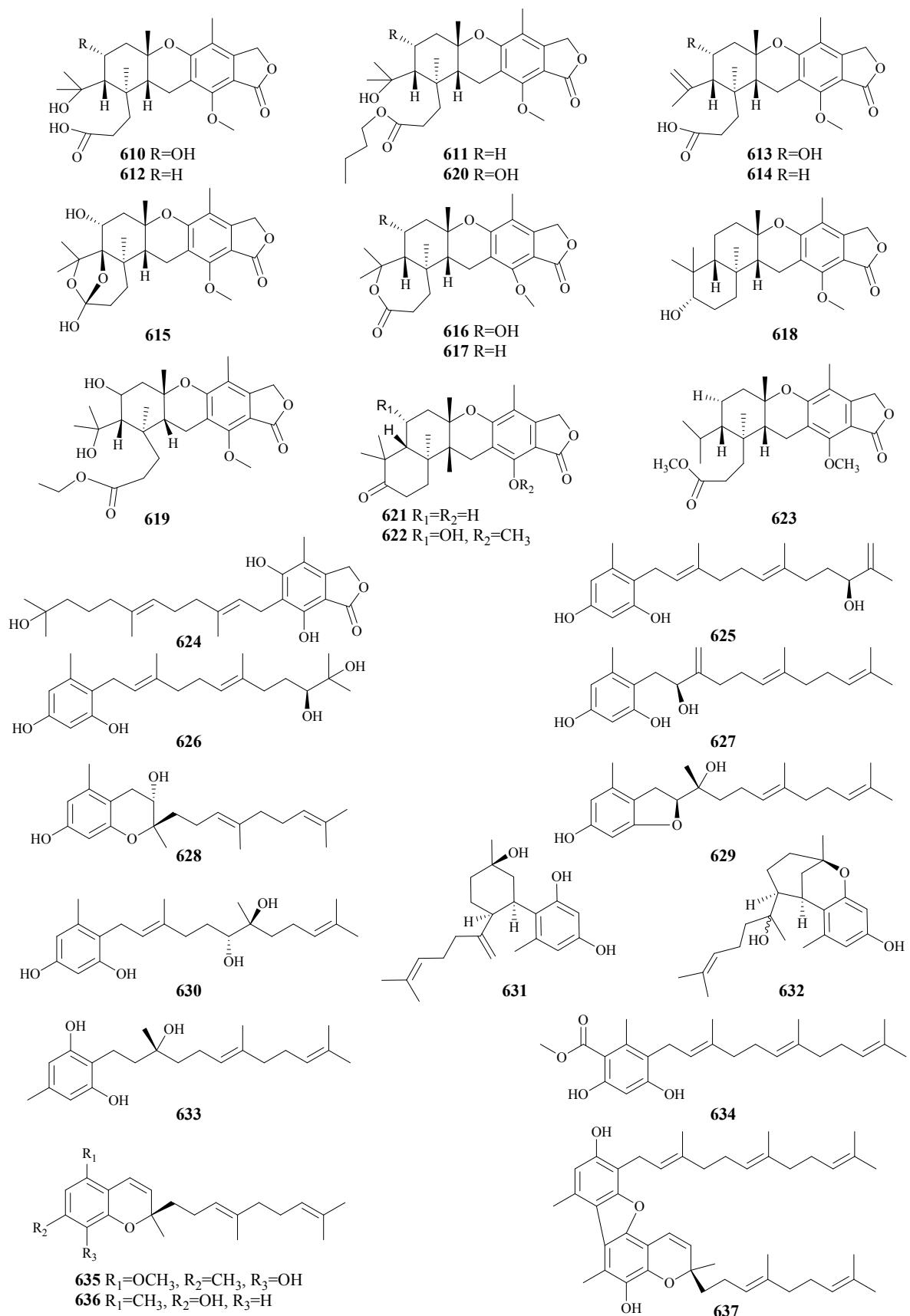


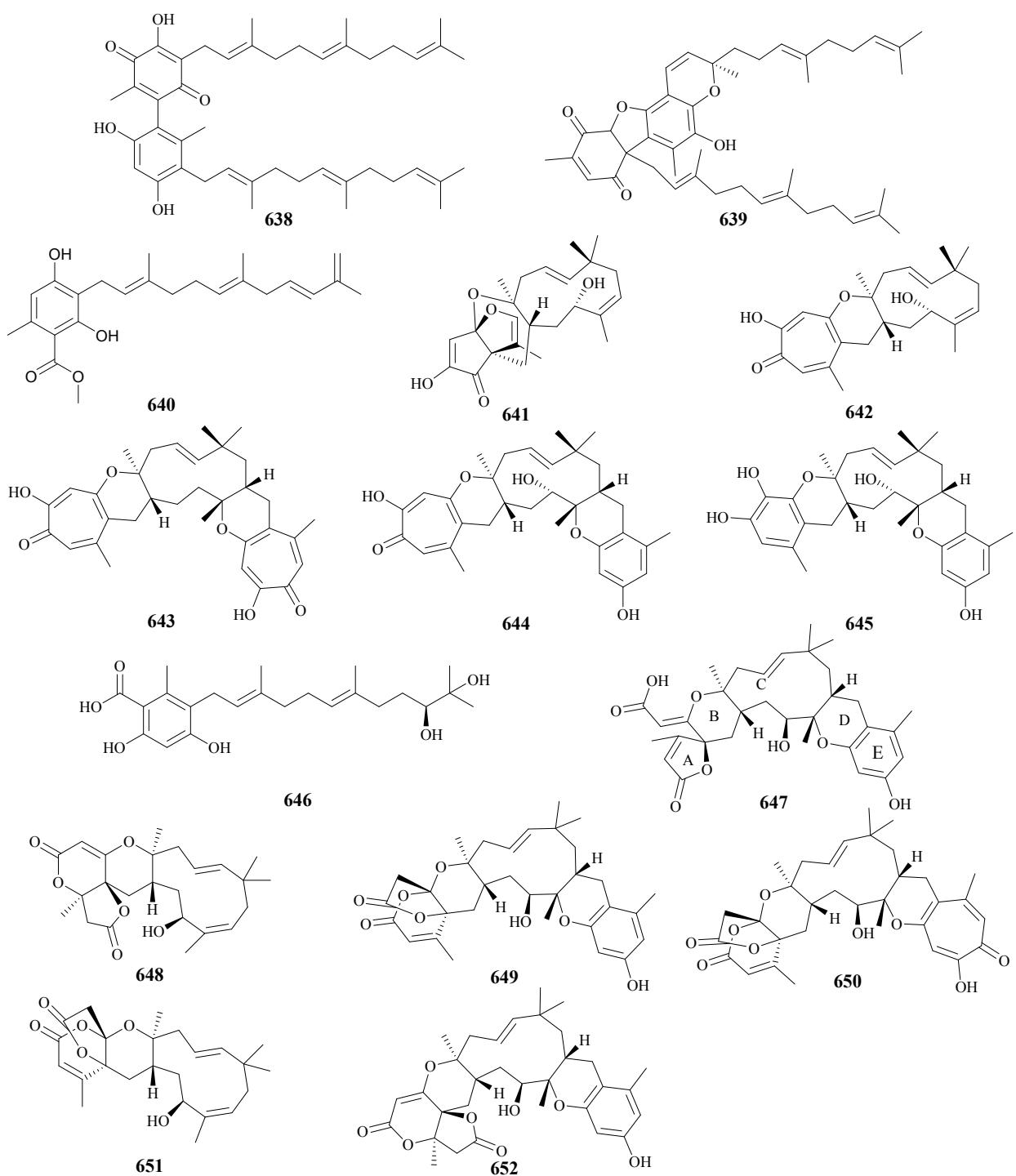


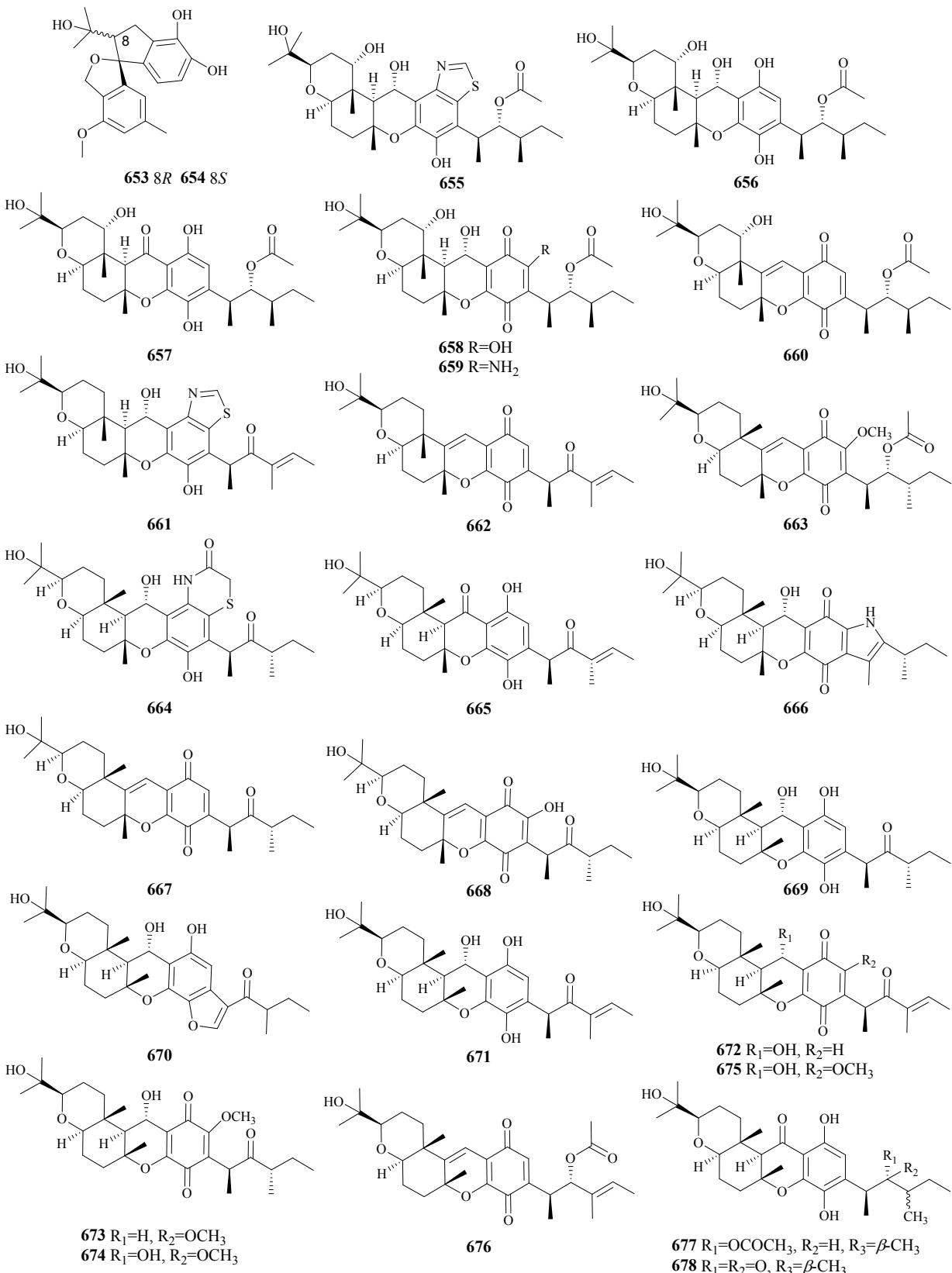


2.4. Other tetraketide-terpenoids (581-652)

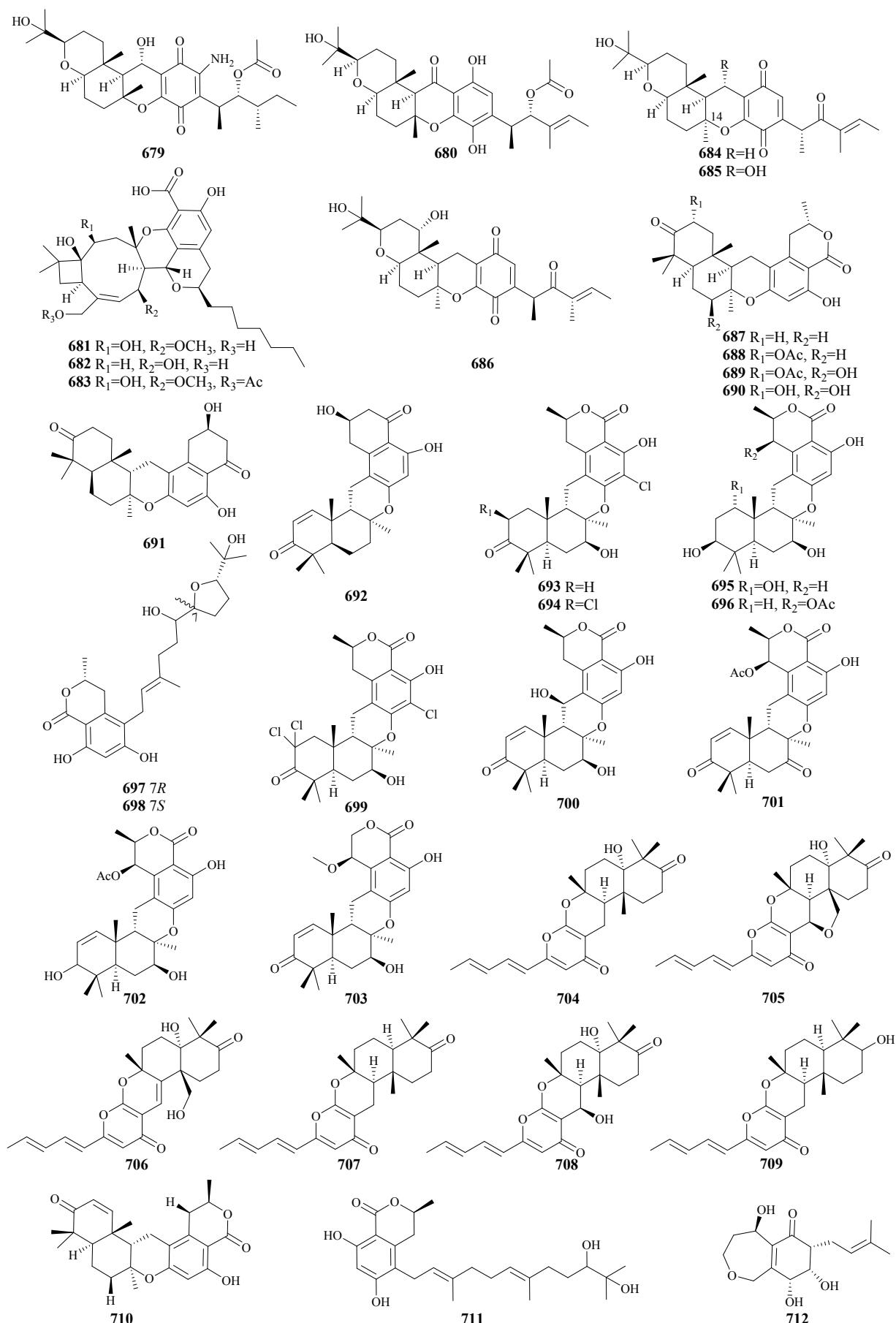


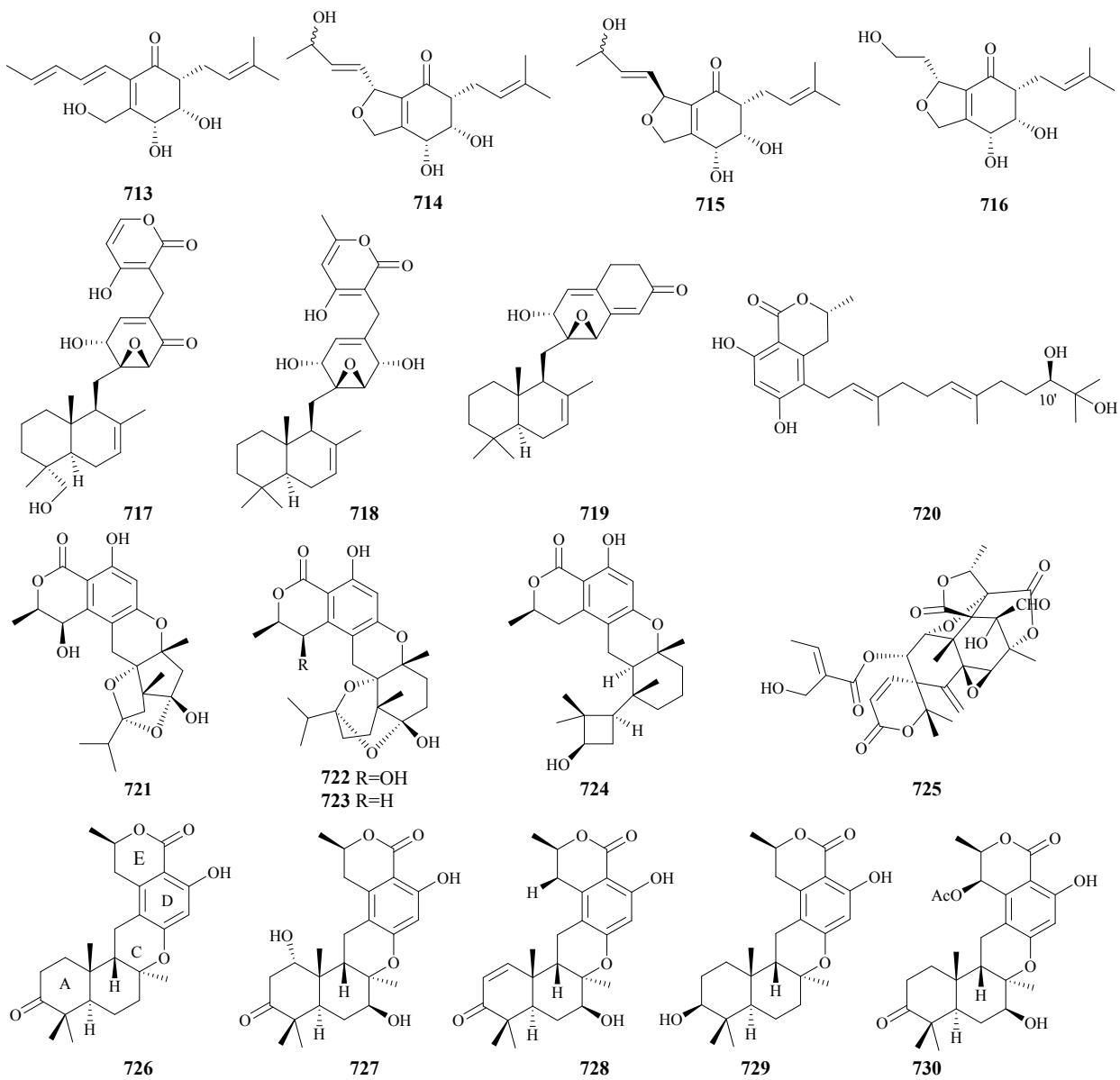


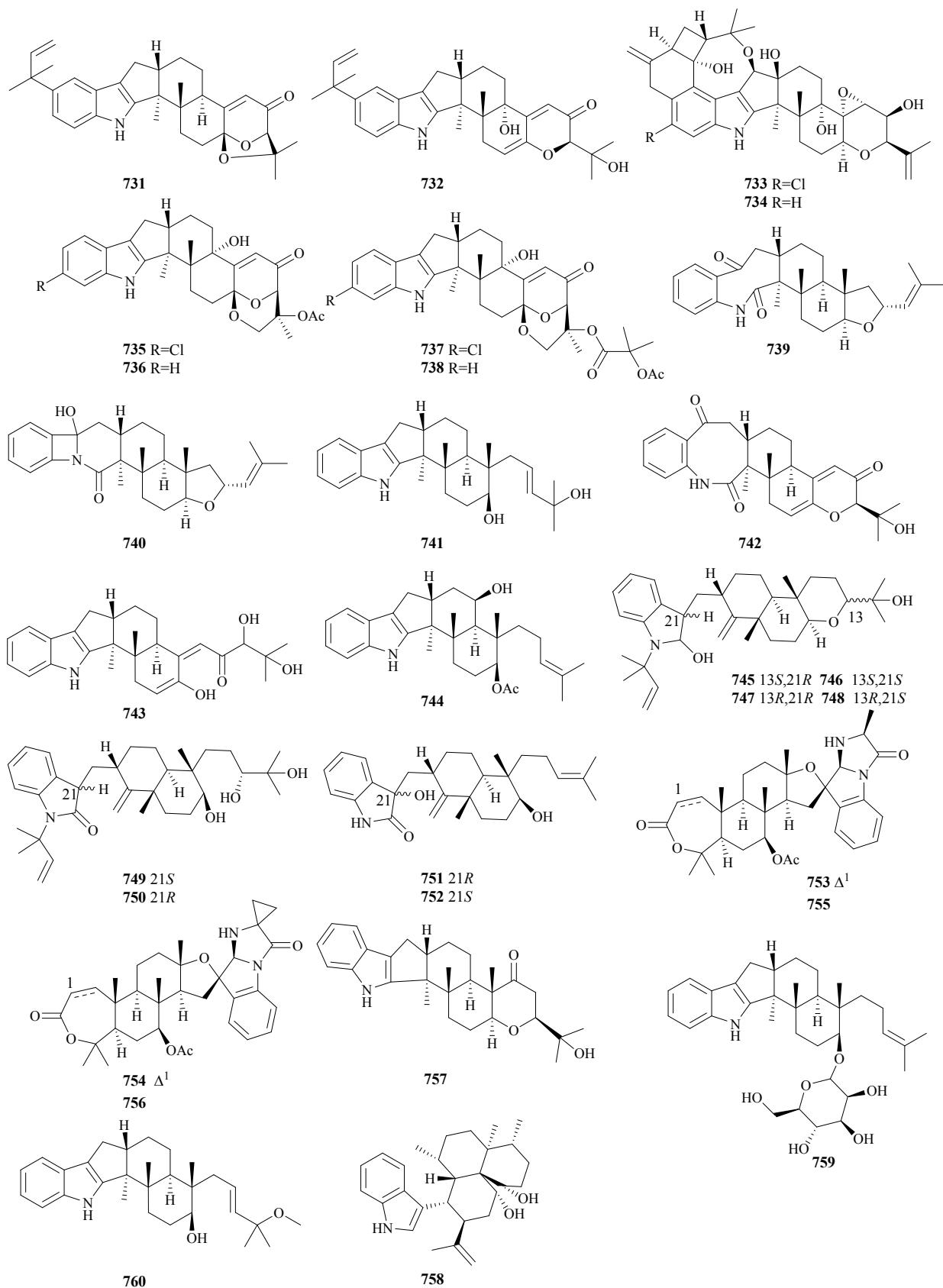


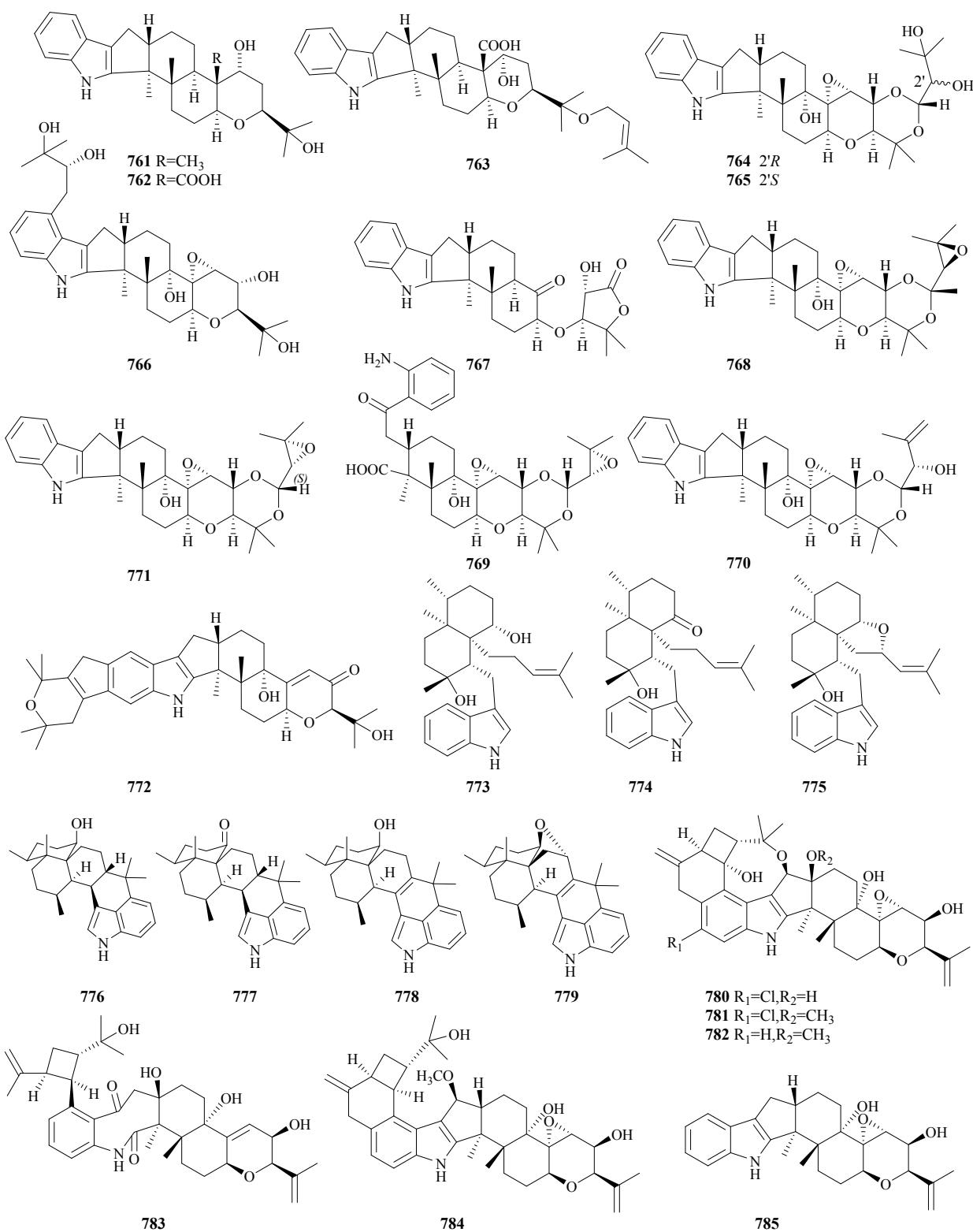


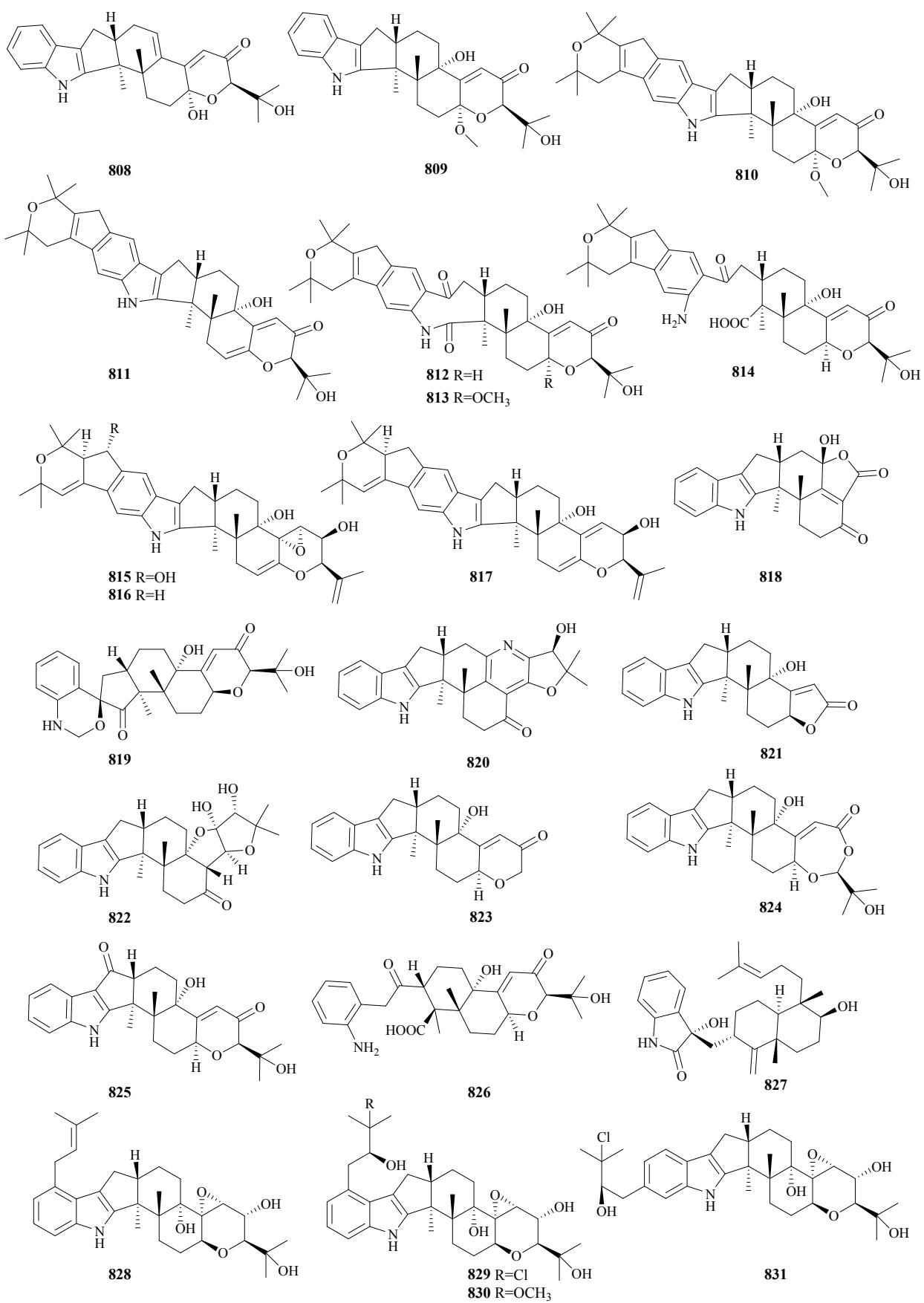
3. Other polyketide-terpenoids (653-730)

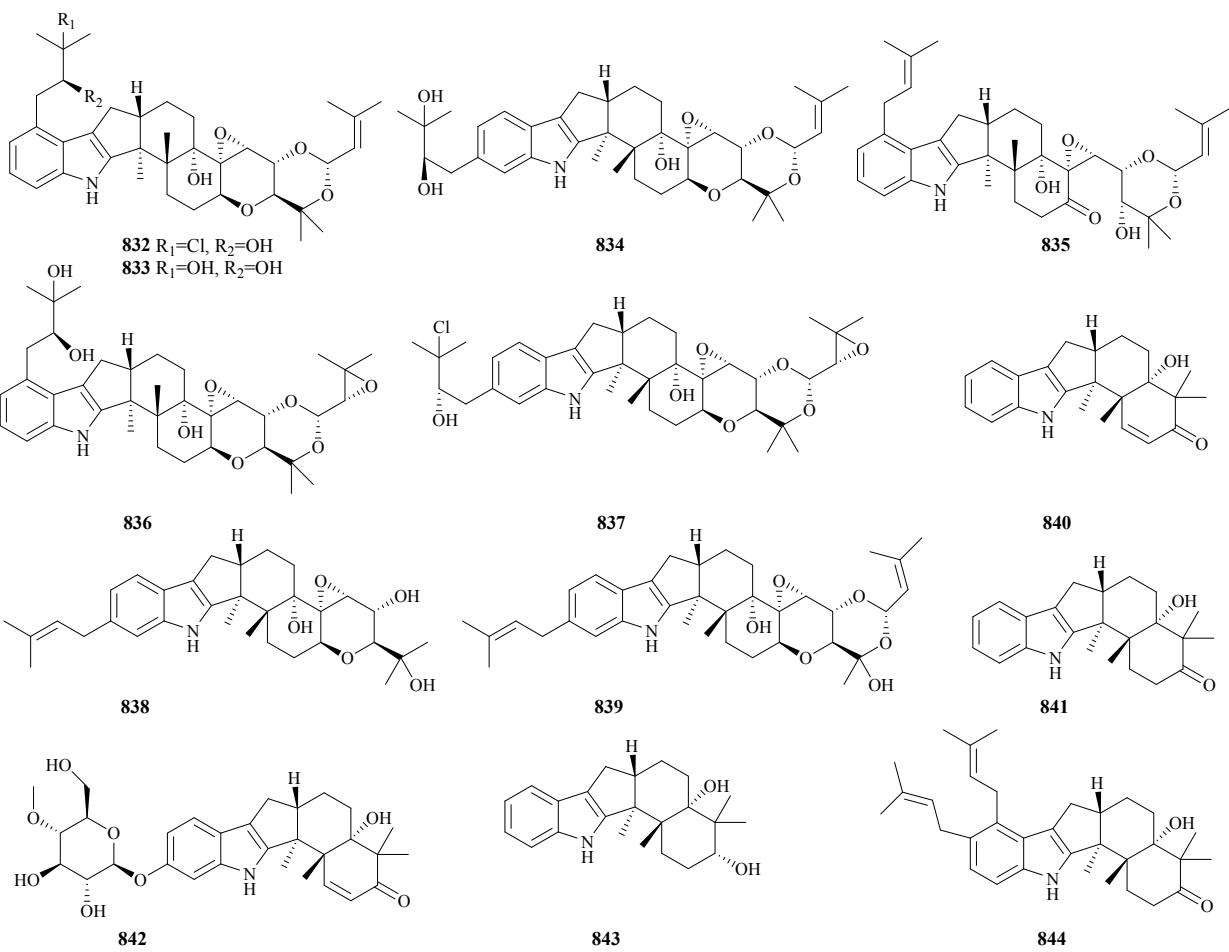




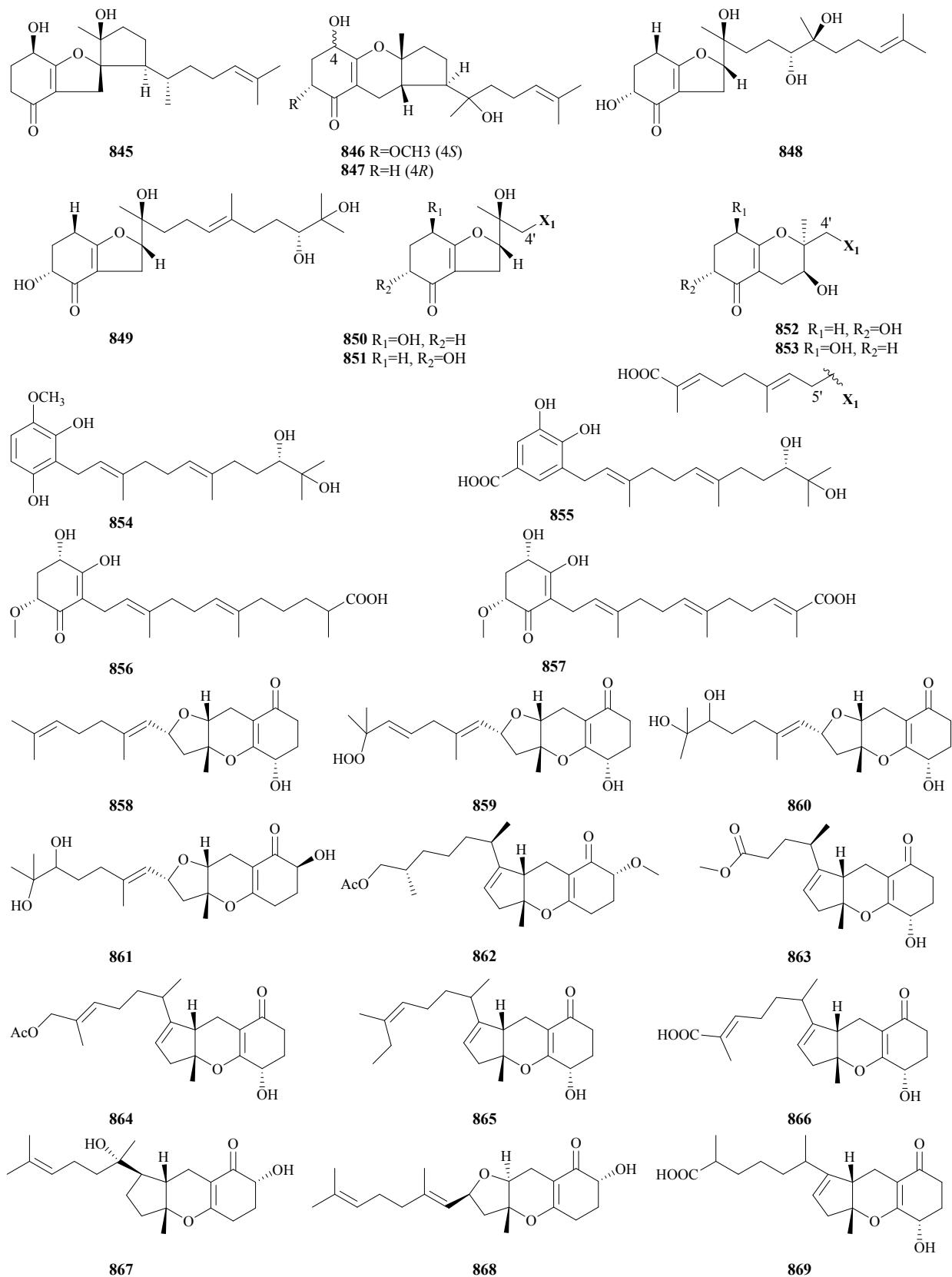


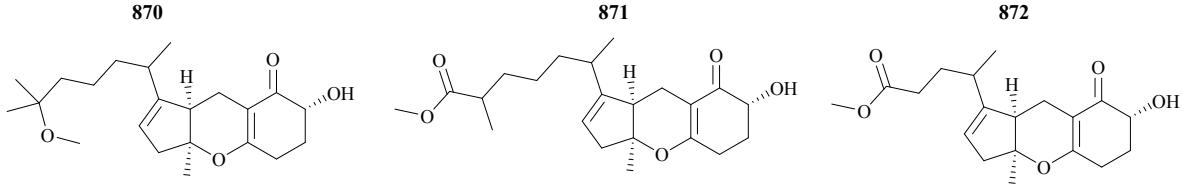
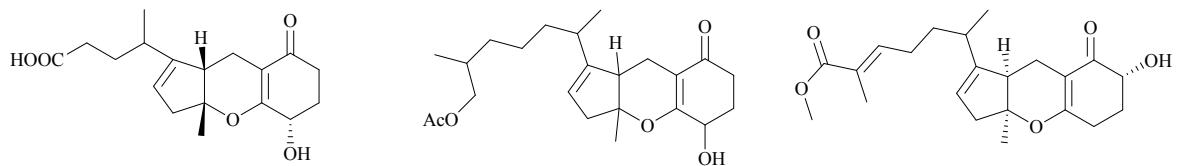






5. Shikimate-terpenoids (845-1544)

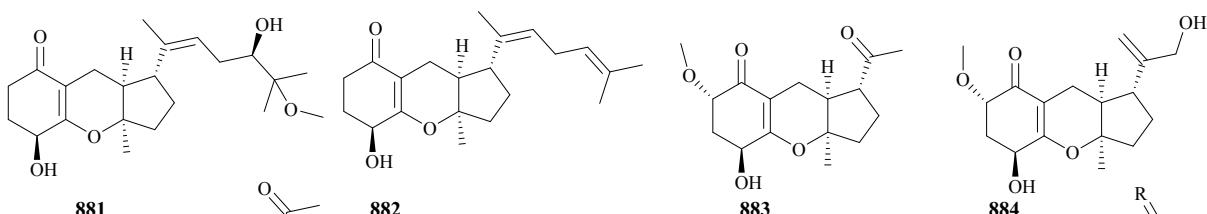




876 R=OCH₃
877 R=OH

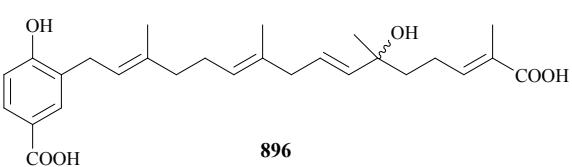
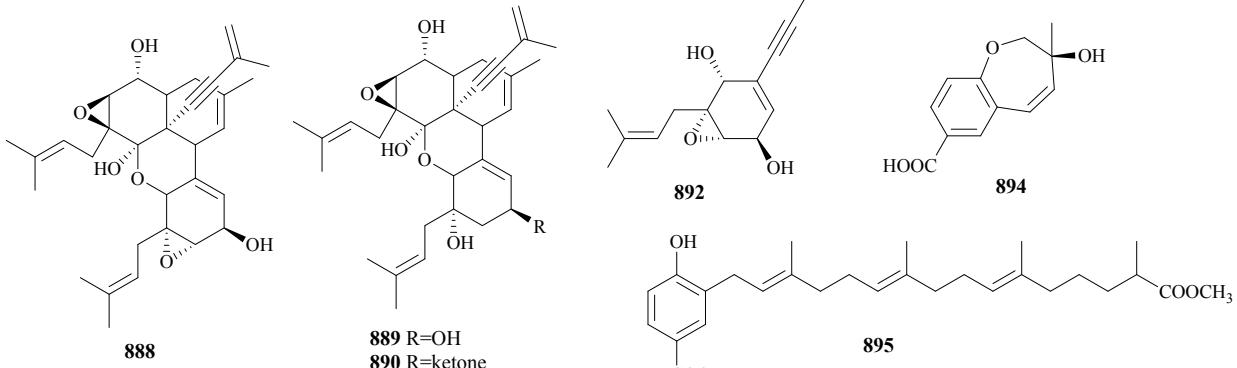
878

879 R=OCH₃
880 R=OH



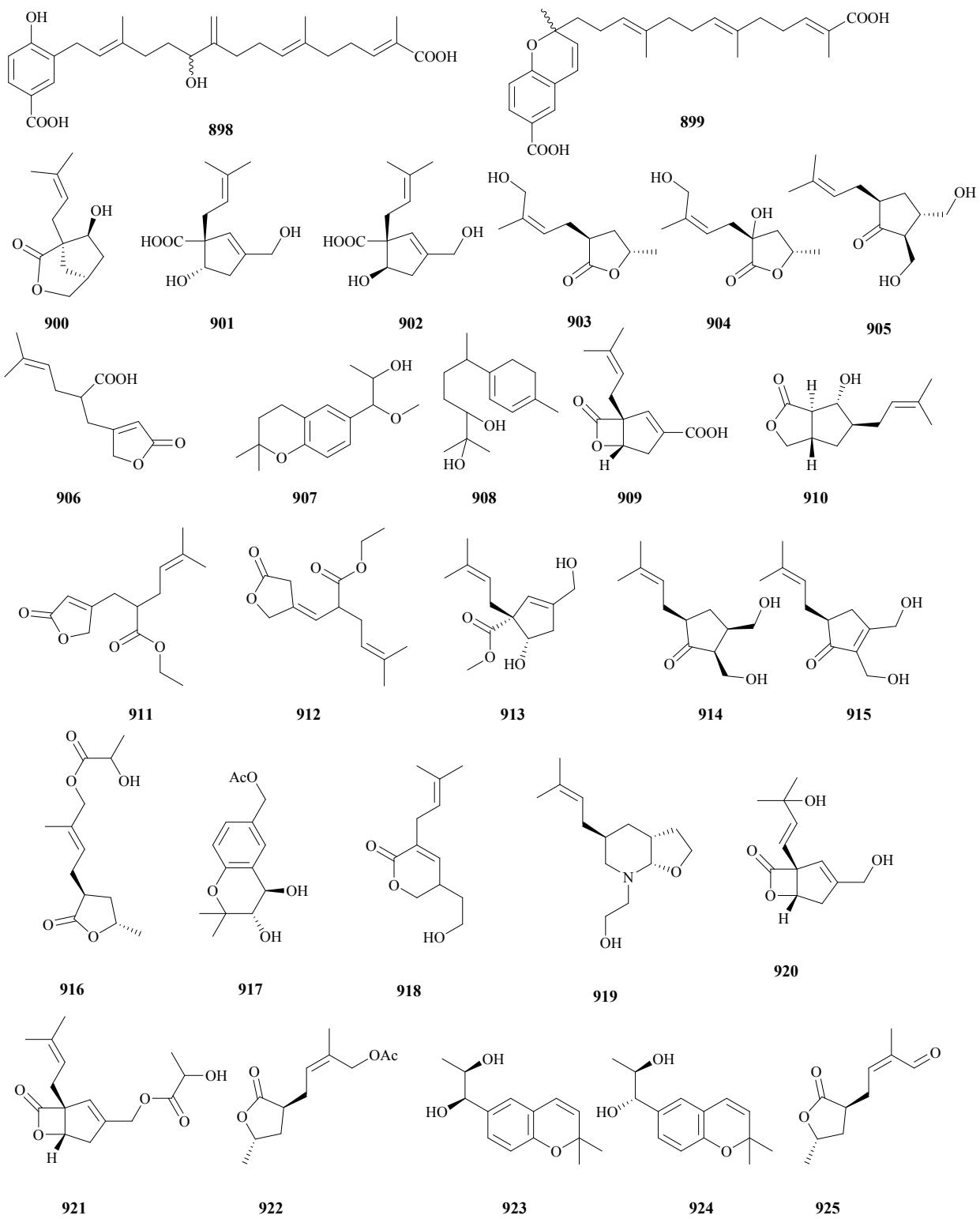
881

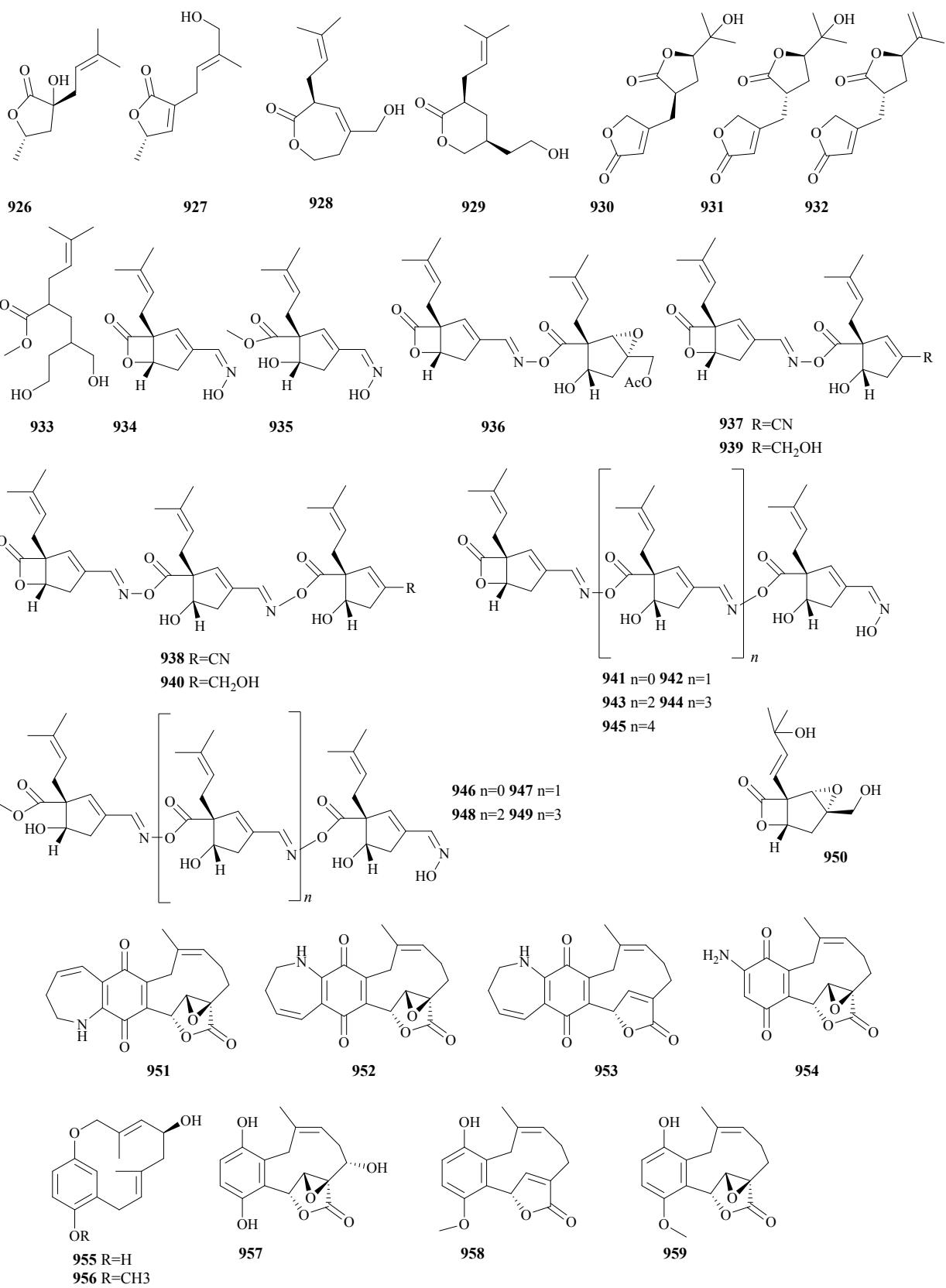
884
881 R=CH₂
883 R=ketone

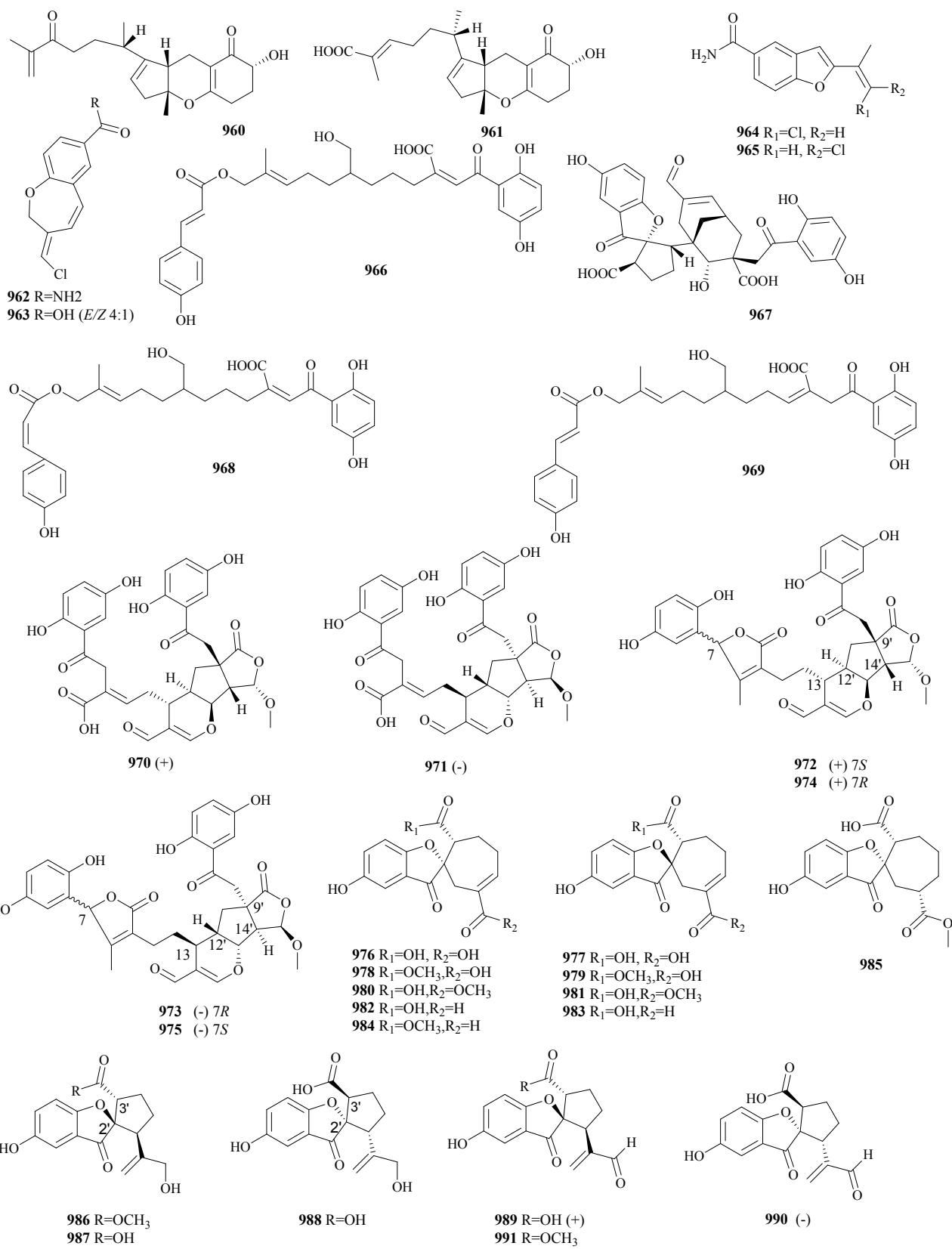


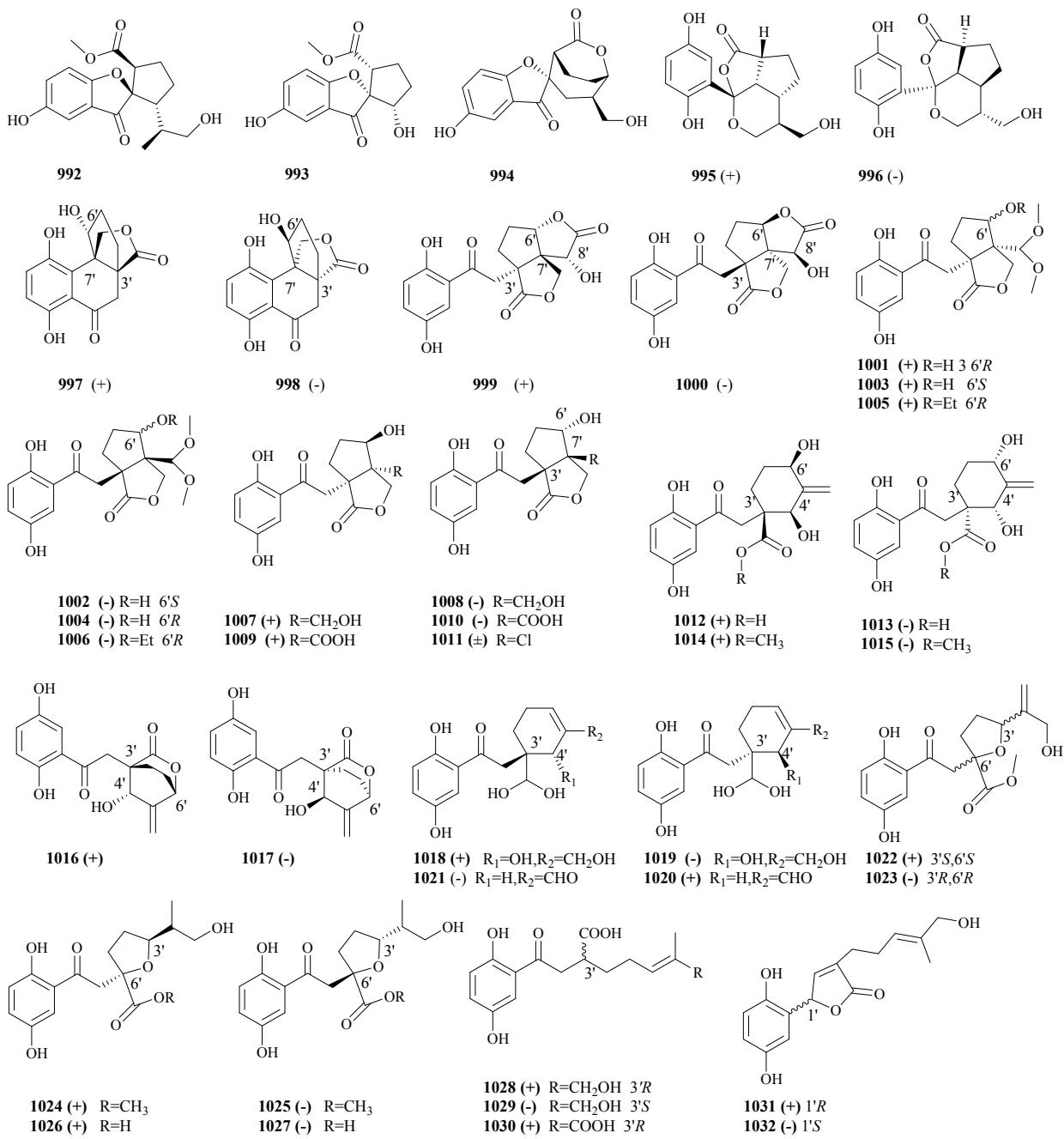
895

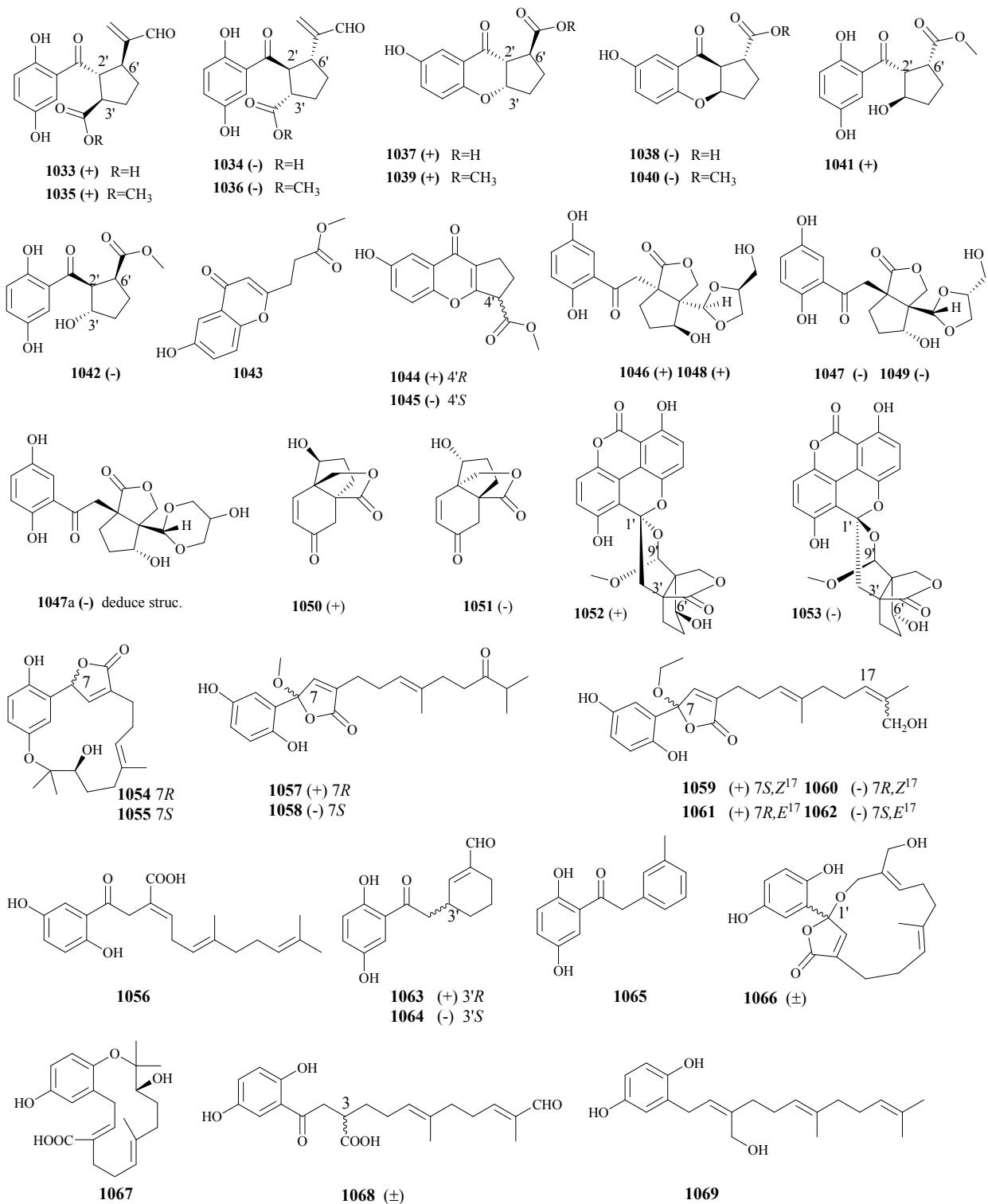
897

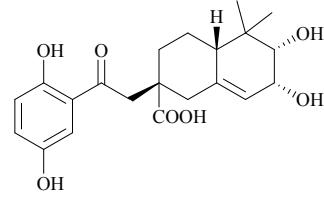
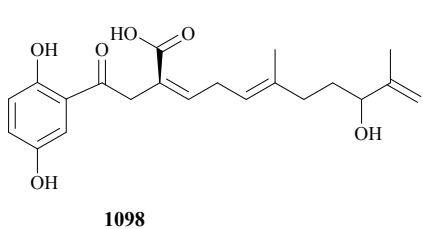
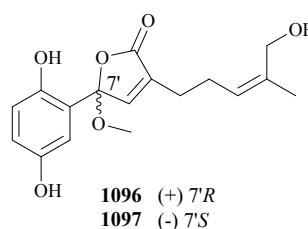
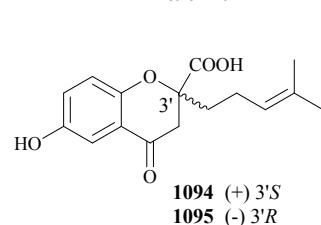
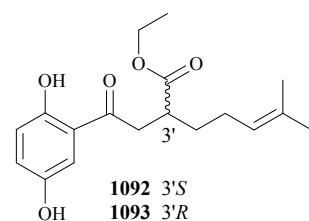
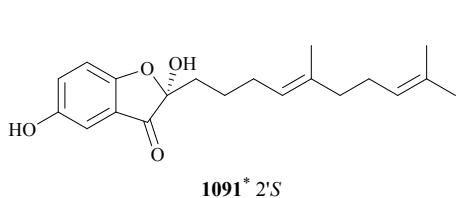
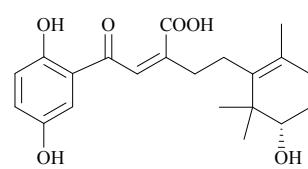
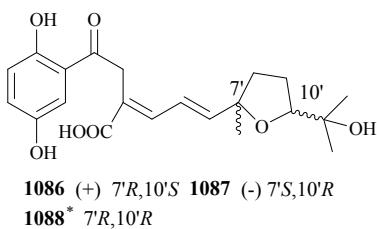
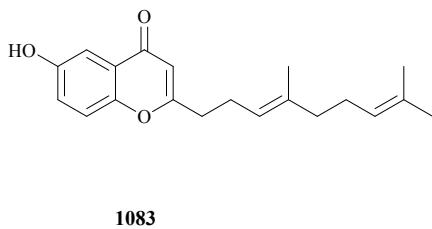
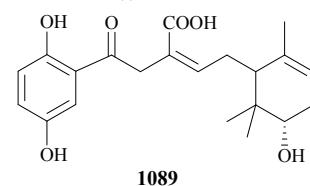
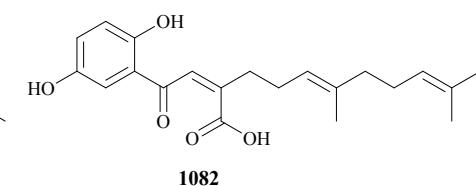
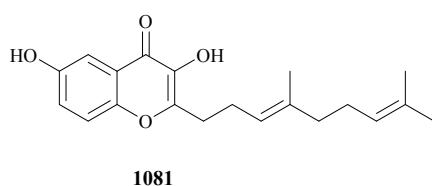
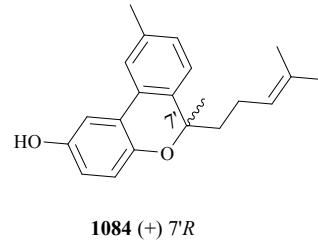
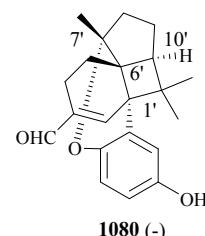
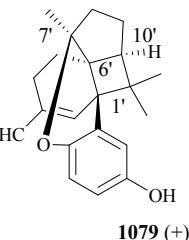
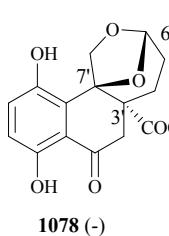
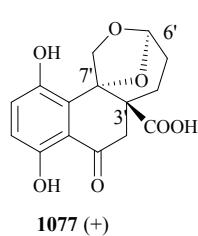
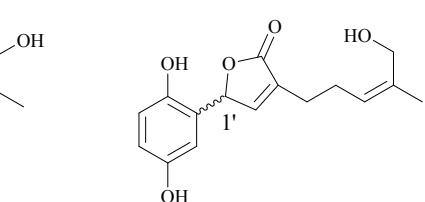
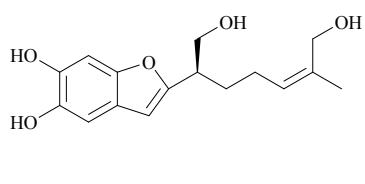
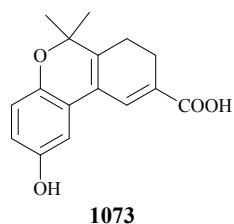
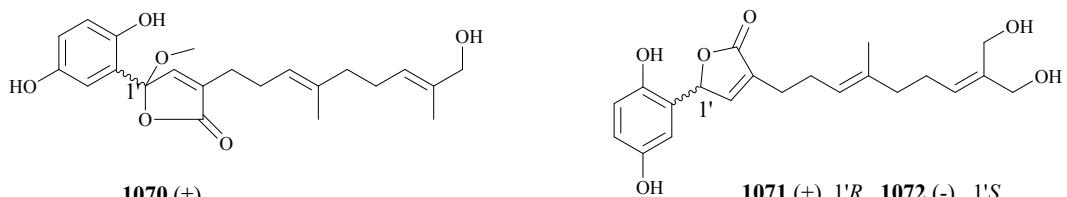


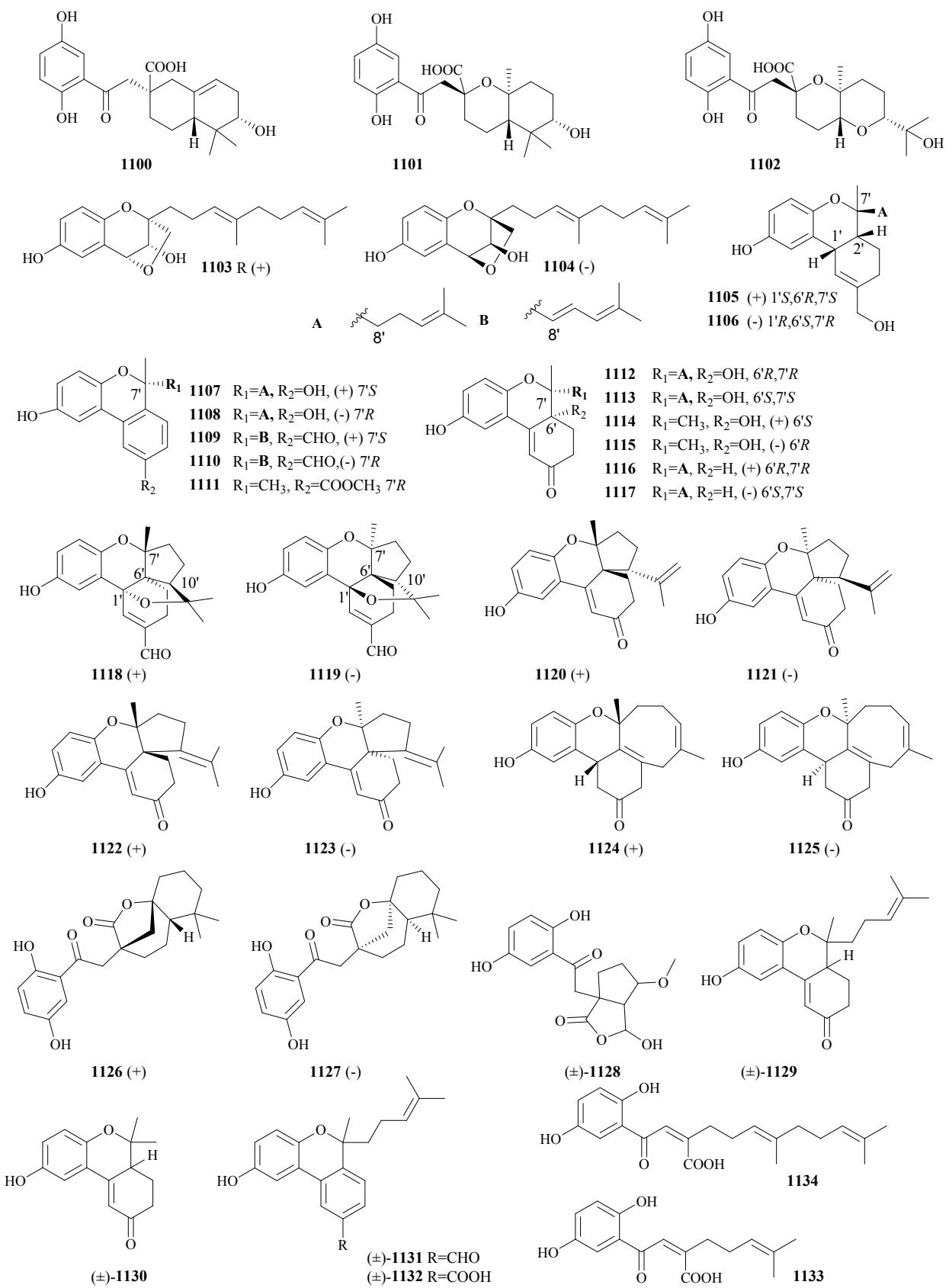


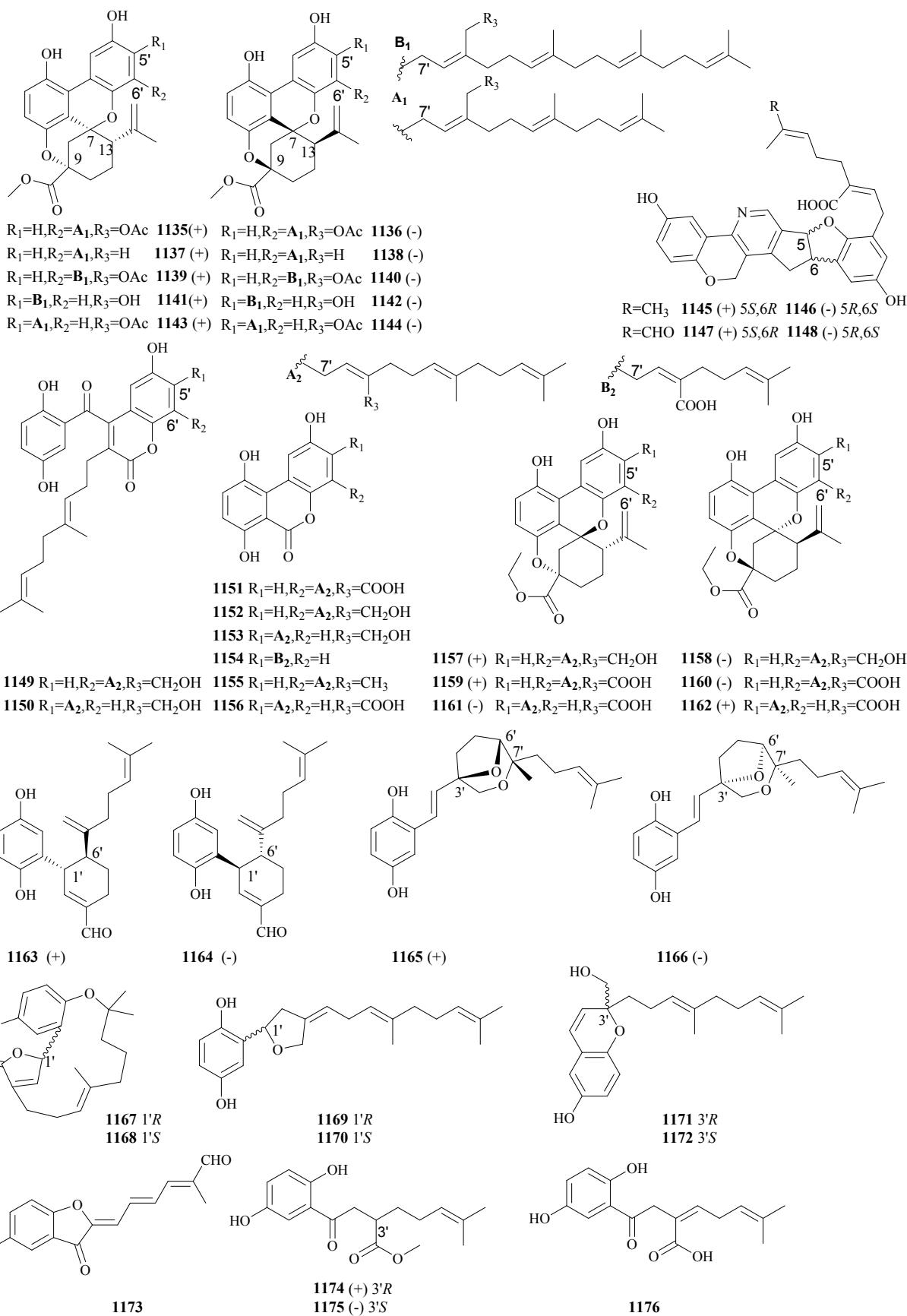


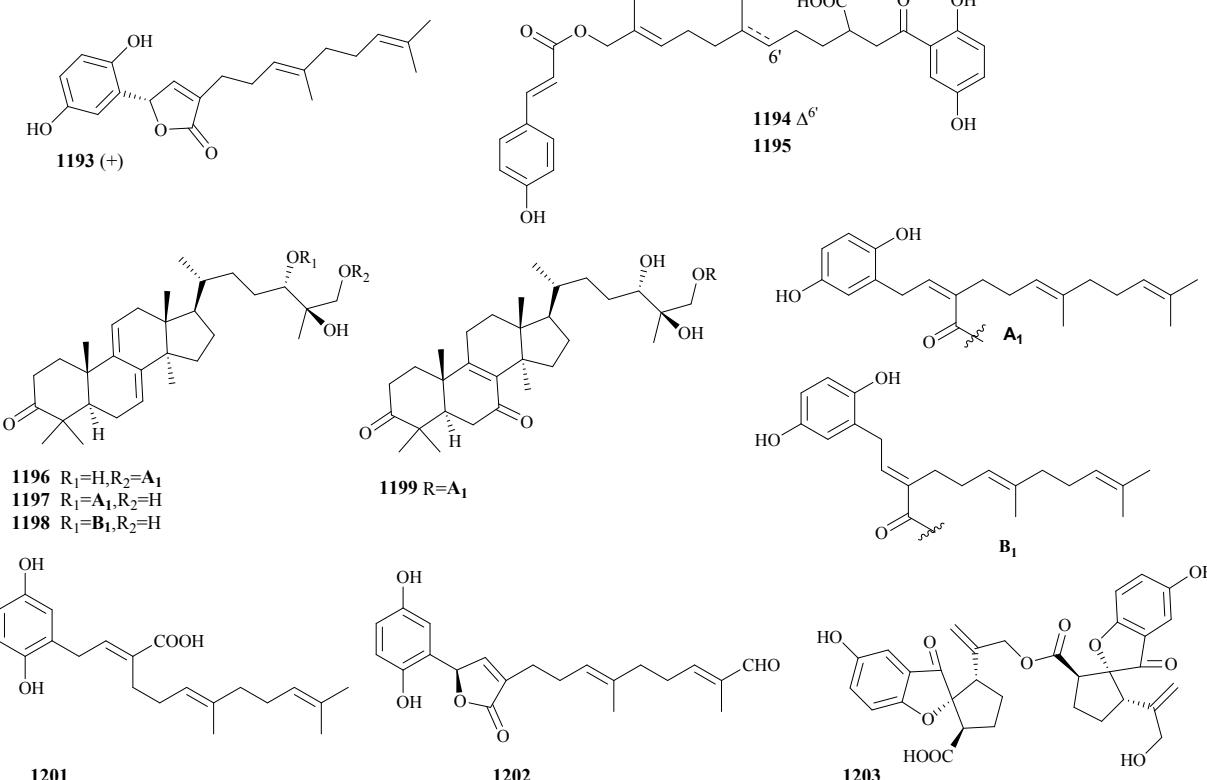
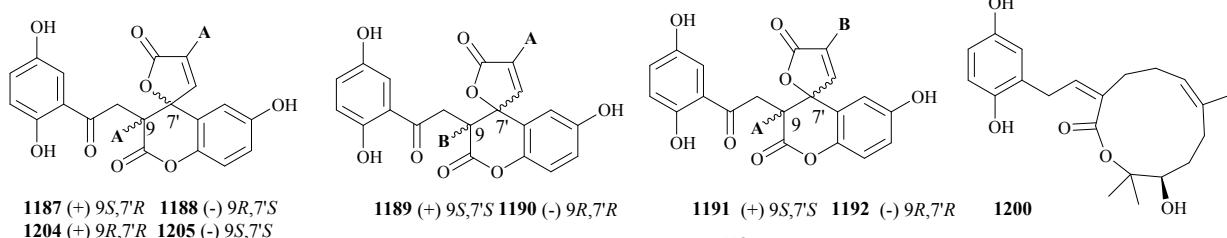
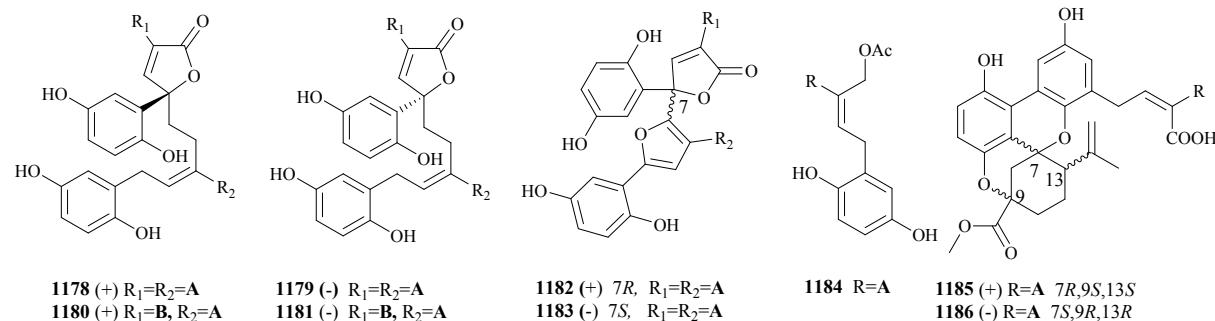
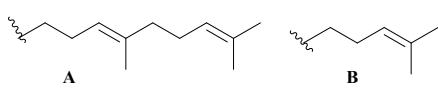
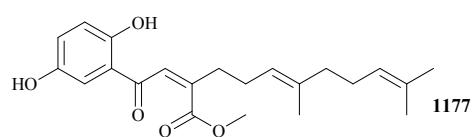


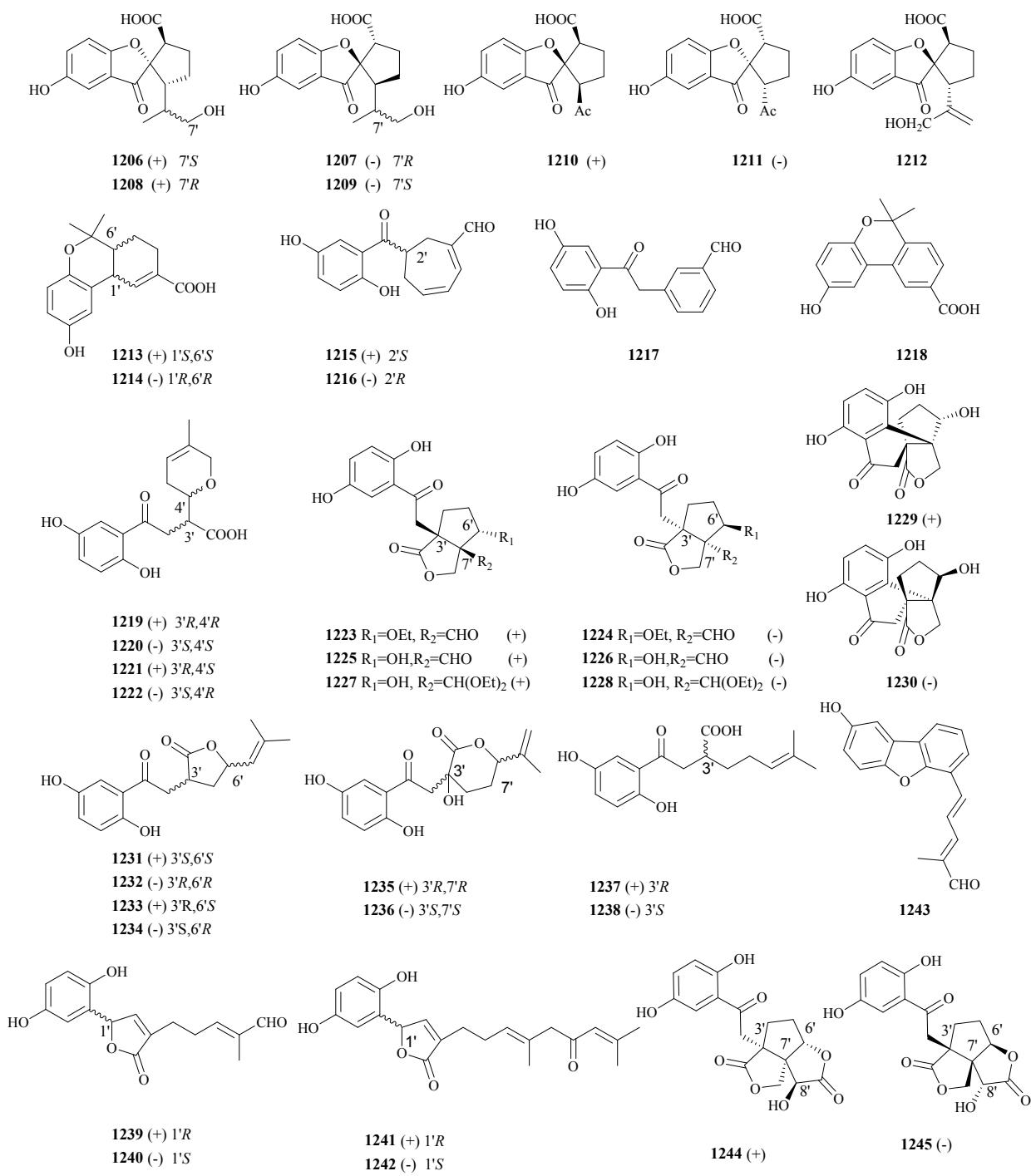


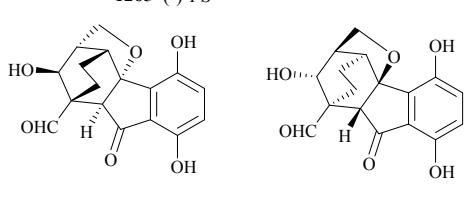
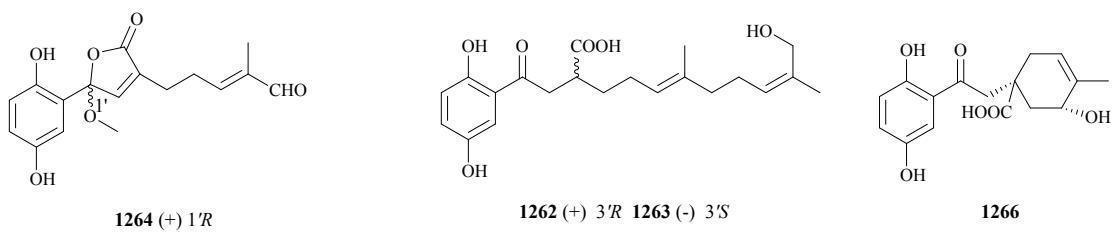
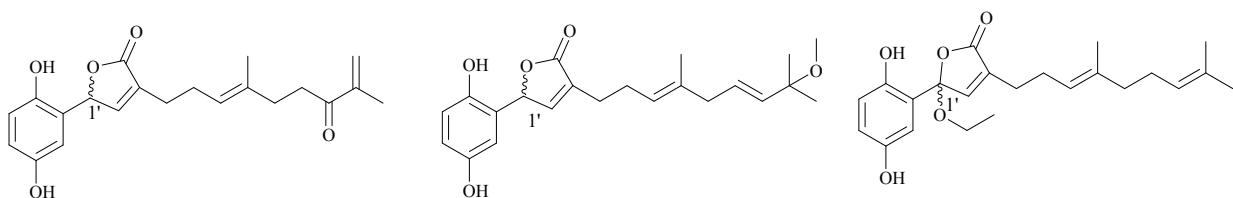
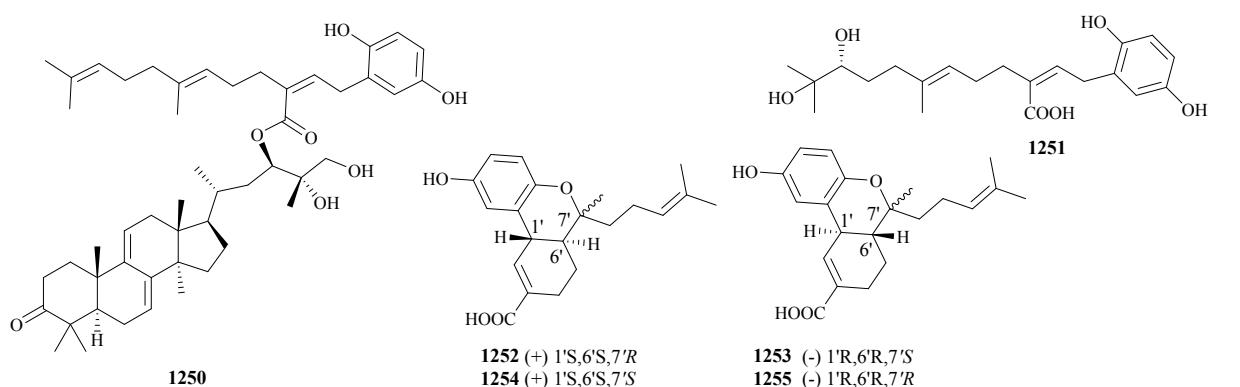
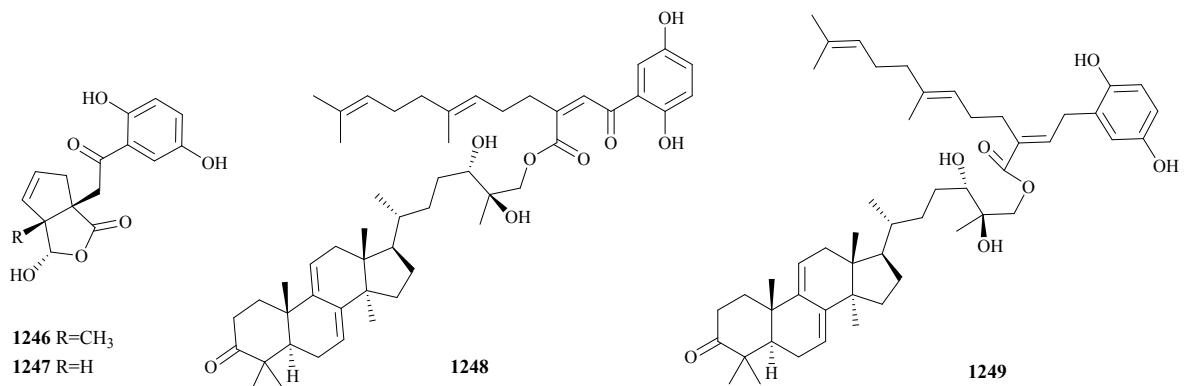


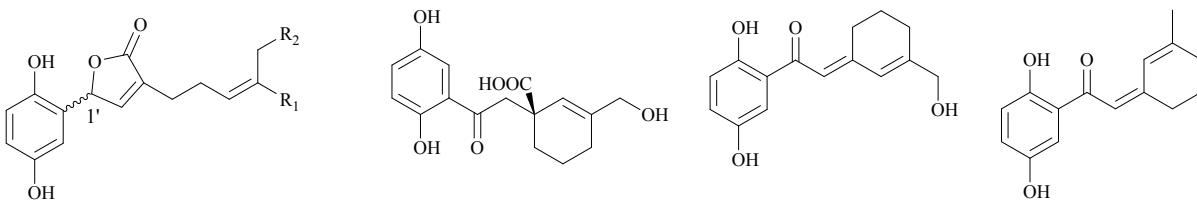




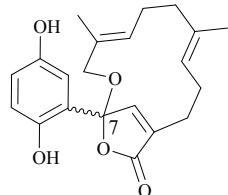
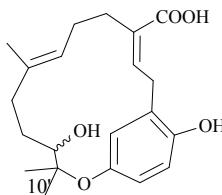
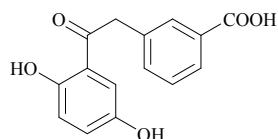
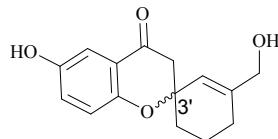








R₁=COOH, R₂=H **1269** (+) 1'R, **1270** (-) 1'S
 R₁=CHO, R₂=CH₃ **1271** (±)

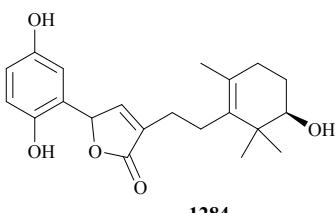
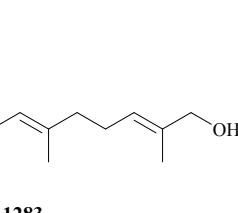
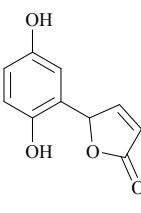
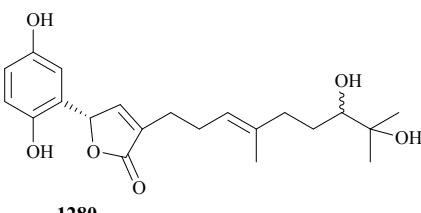


1275 (+) 3'R 1276 (-) 3'S

1277

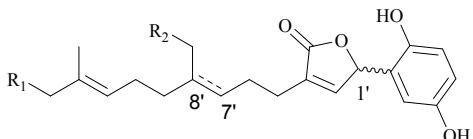
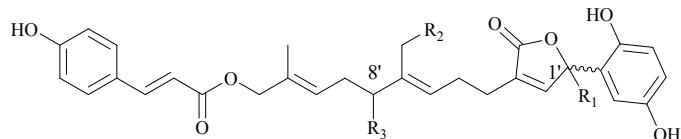
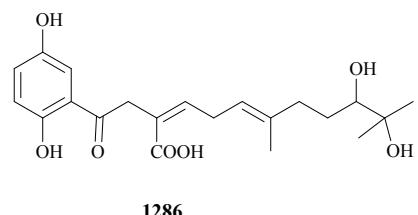
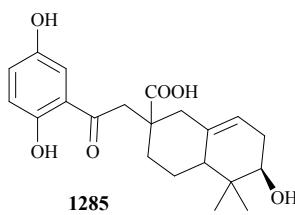
1278 (+) 10'S 1279 (-) 10'R

1281 7R 1282 7S



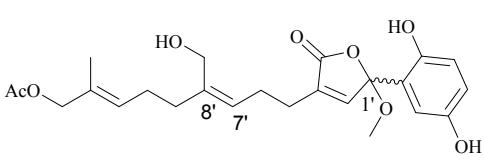
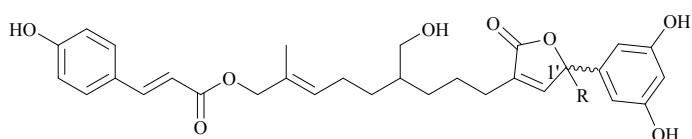
1280

1283



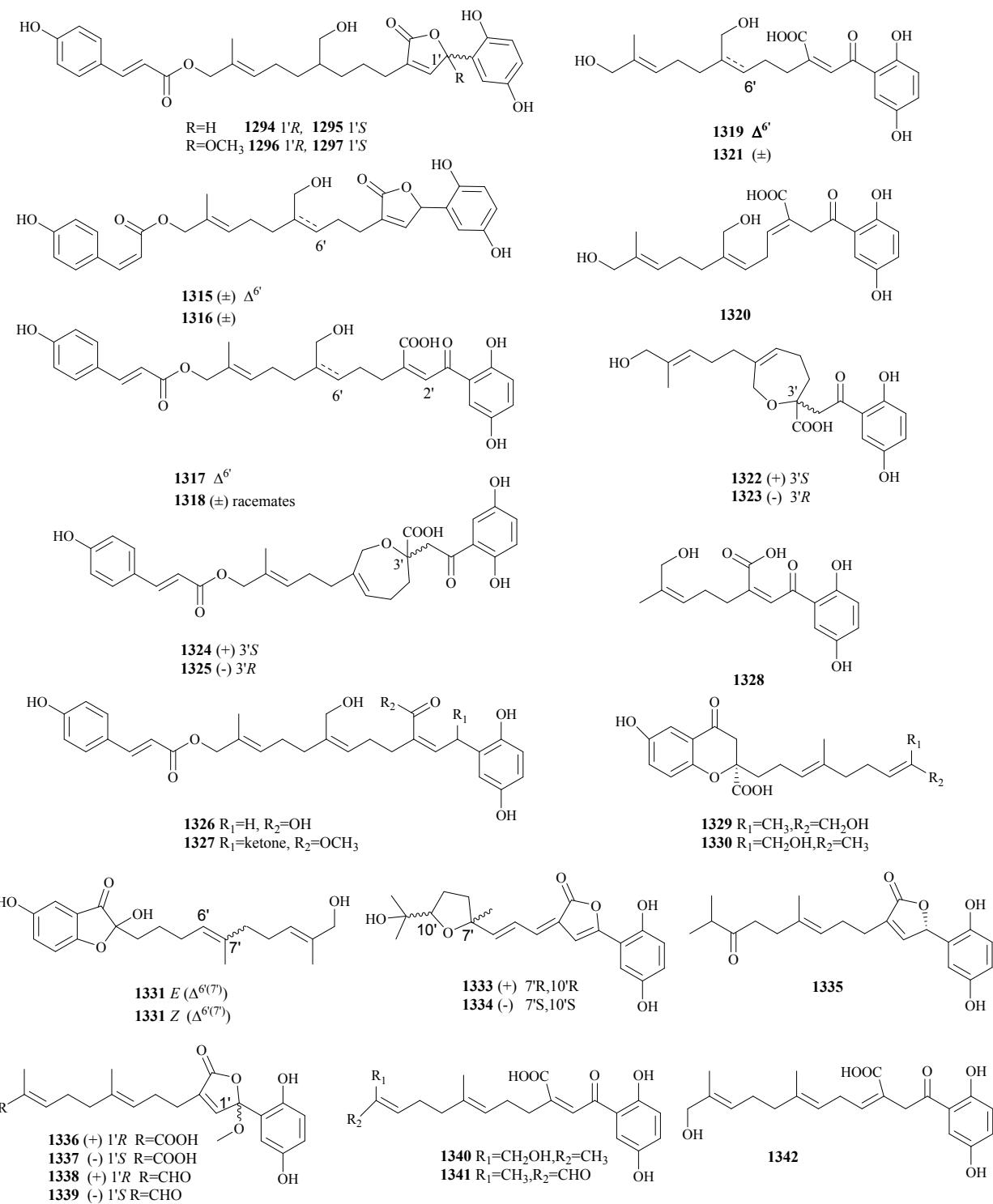
$R_1=R_3=H, R_2=OH$	1288 1'R, 1289 1'S
$R_1=OCH_3, R_2=OH, R_3=H$	1290 1'R, 1291 1'S
$R_1=OCH_3, R_2=R_3=H$	1298 (\pm)
$R_1=R_2=R_3=H$	1311 (+) 1'R 1312 (-) 1'S
$R_1=H, R_2=R_3=OH$	1313 1'S 1314 1'R

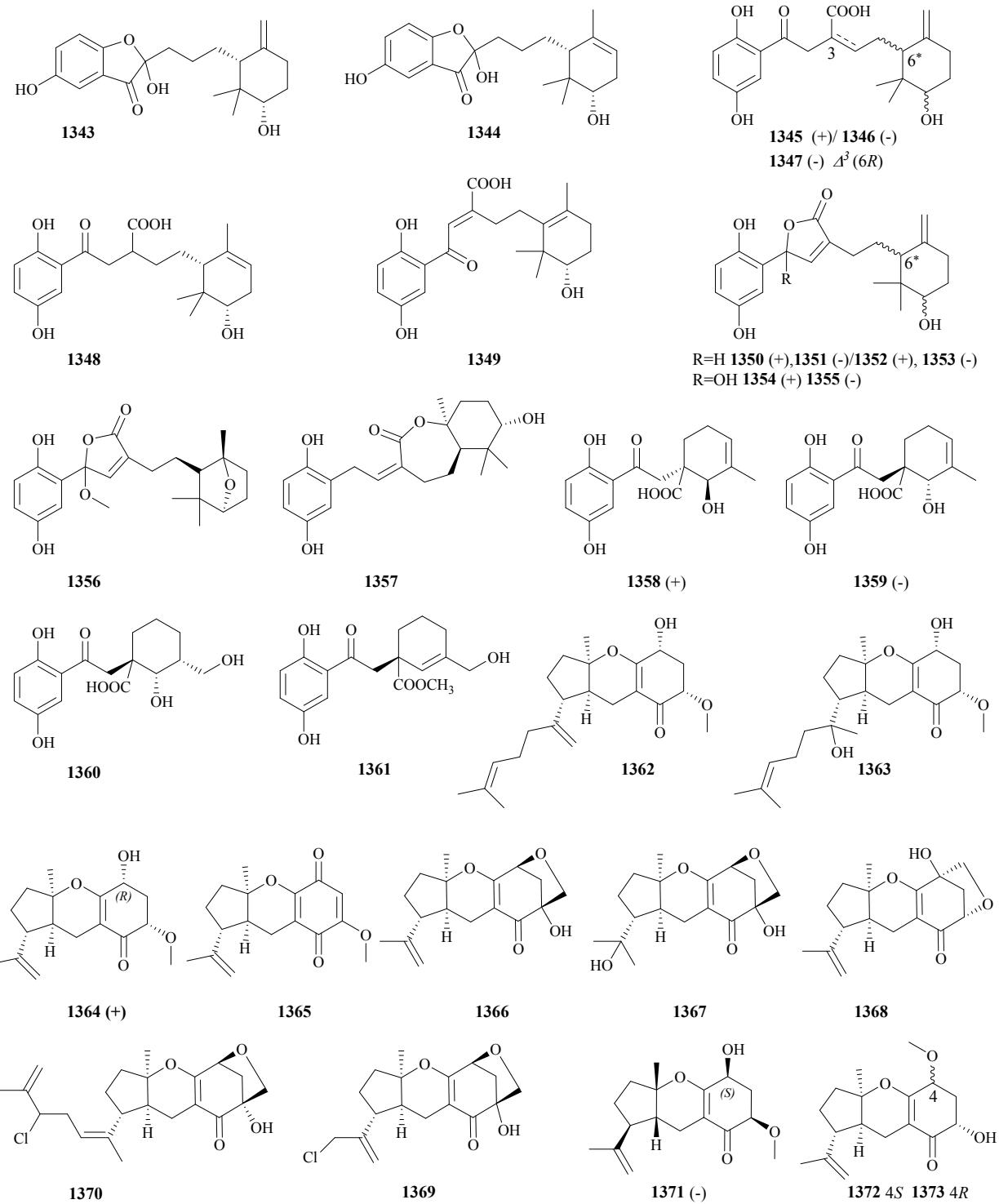
$R_1=OH, R_2=H, \Delta^7$	1299 (+) $1'R$	1300 (-) $1'S$
$R_1=OH, R_2=OAc, \Delta^7$	1301 (+) $1'R$	1302 (-) $1'S$
$R_1=OH, R_2=OAc$	1303 (+) $1'R$	1304 (-) $1'S$
$R_1=OAc, R_2=OH, \Delta^7$	1305 (+) $1'R$	1306 (-) $1'S$
$R_1=OAc, R_2=OH$	1307 (+) $1'R$	1308 (-) $1'S$

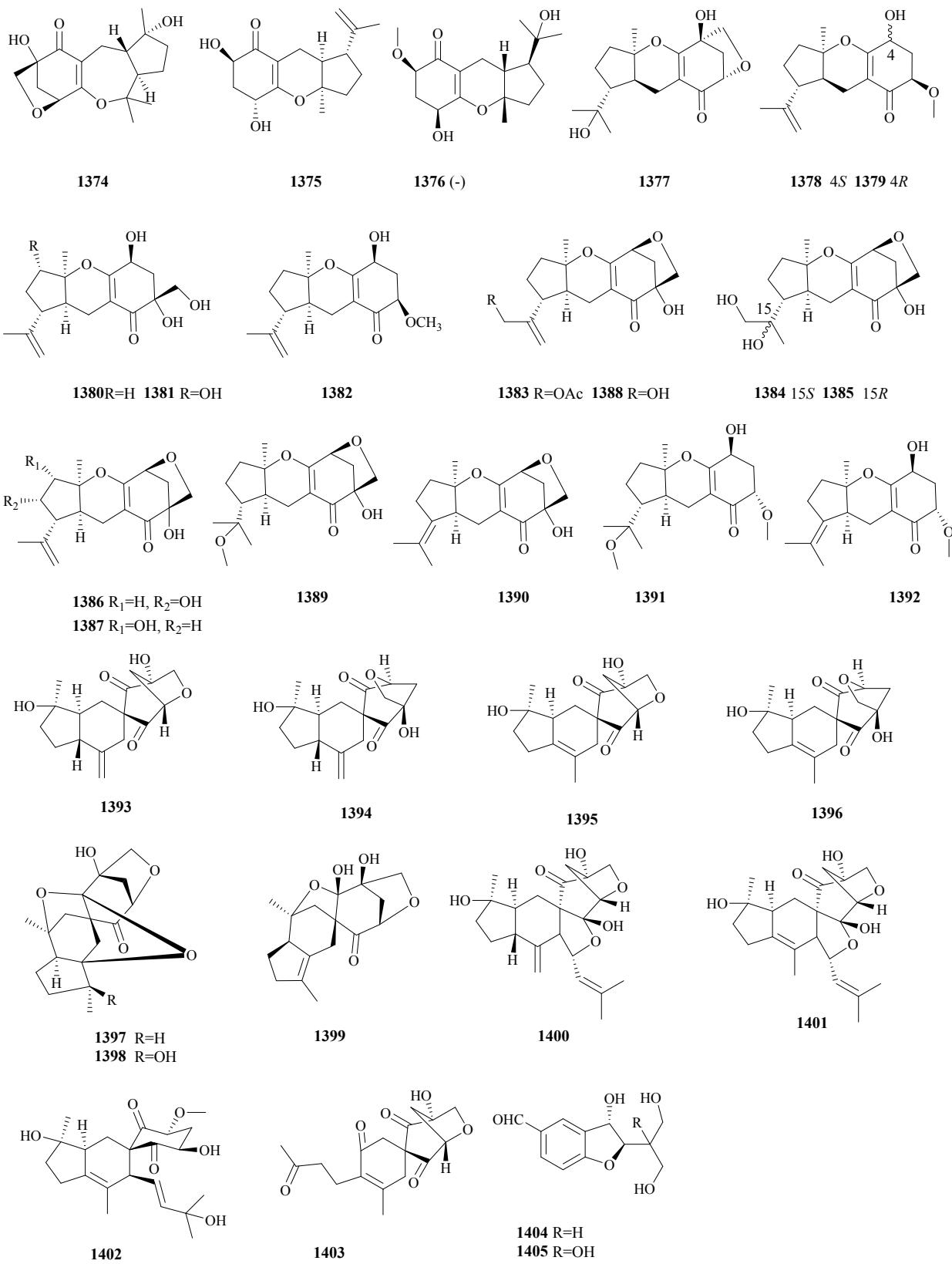


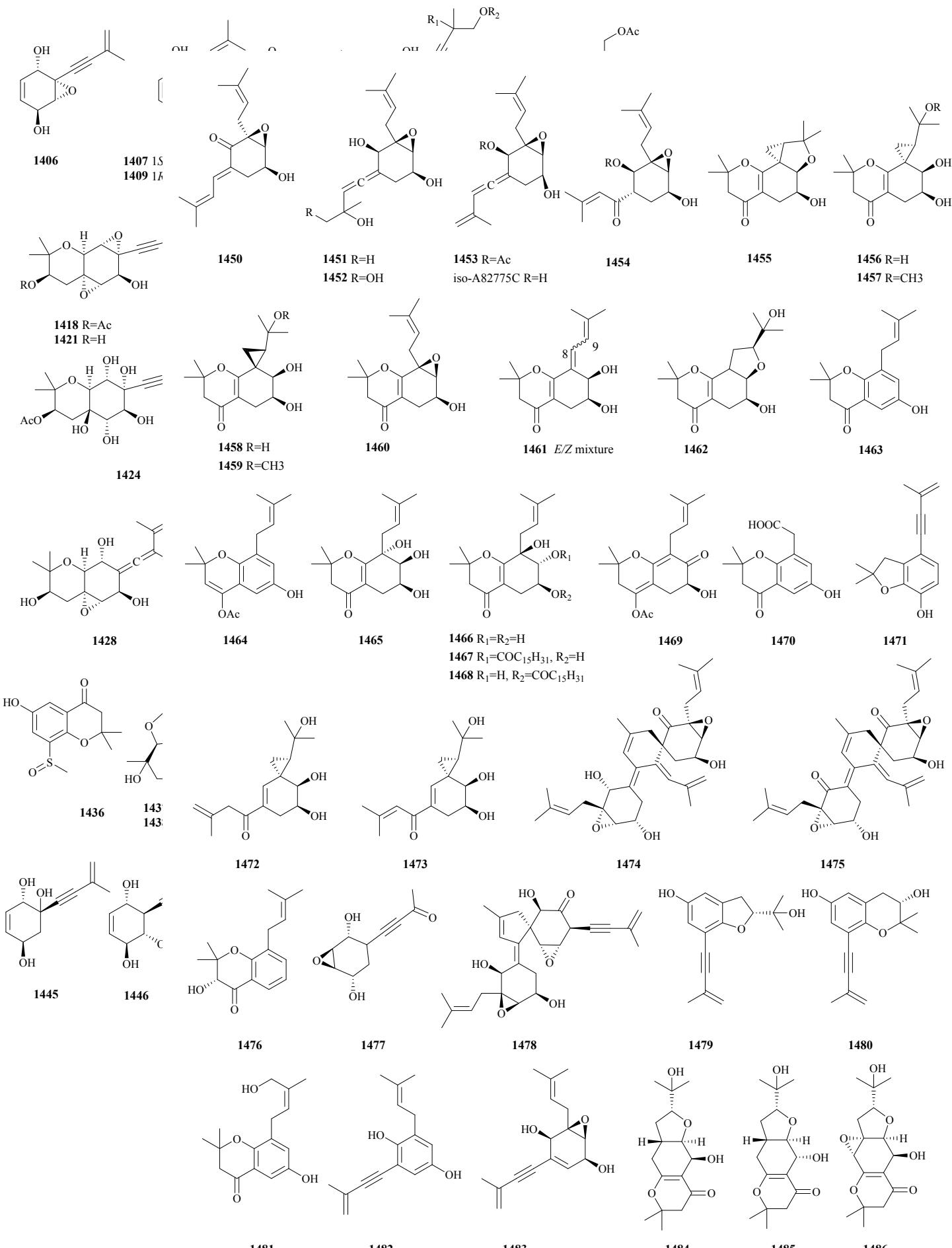
R=OCH₃, 1292 1'R, 1293 1'S

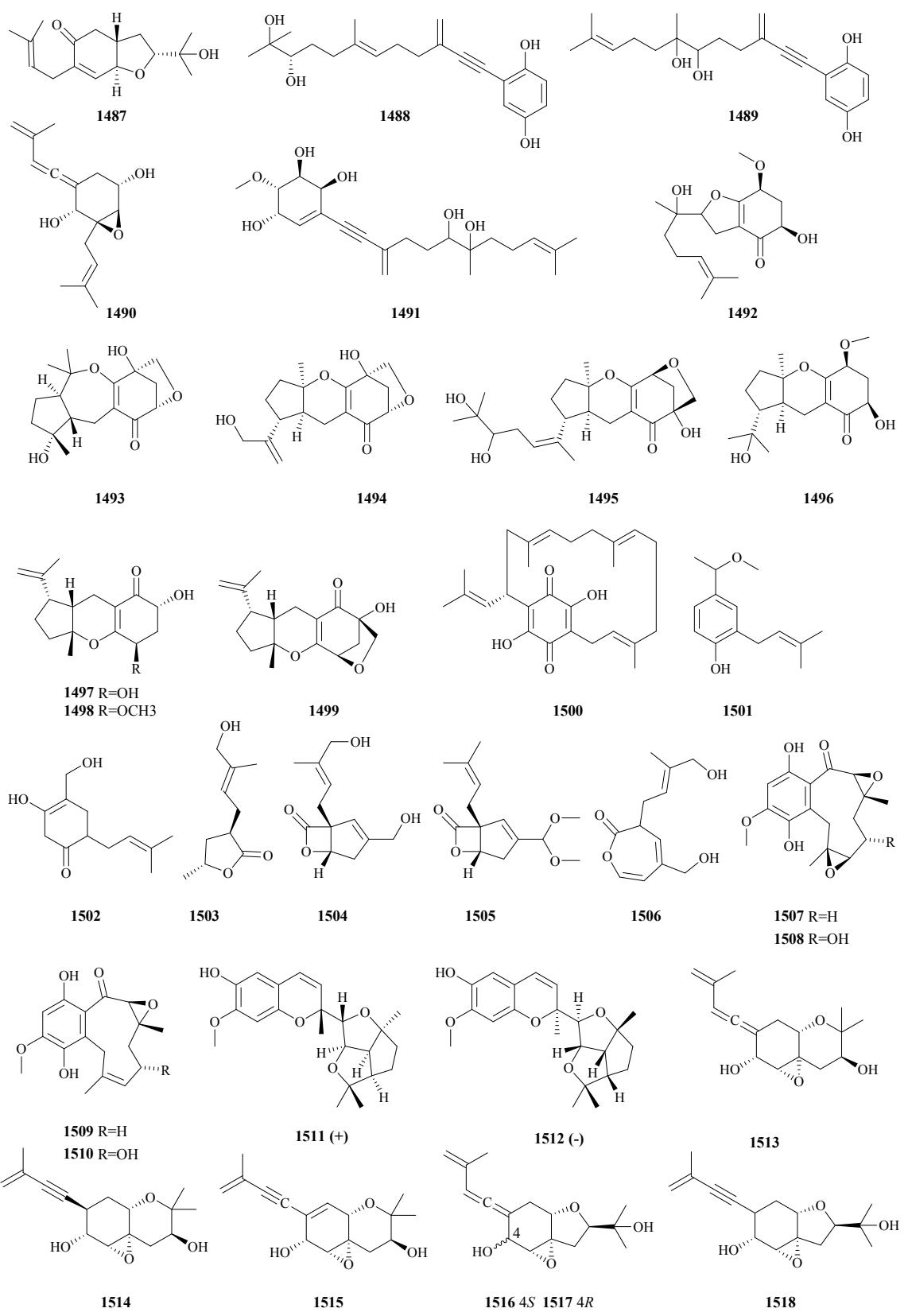
1309 (+) 1310 (-)

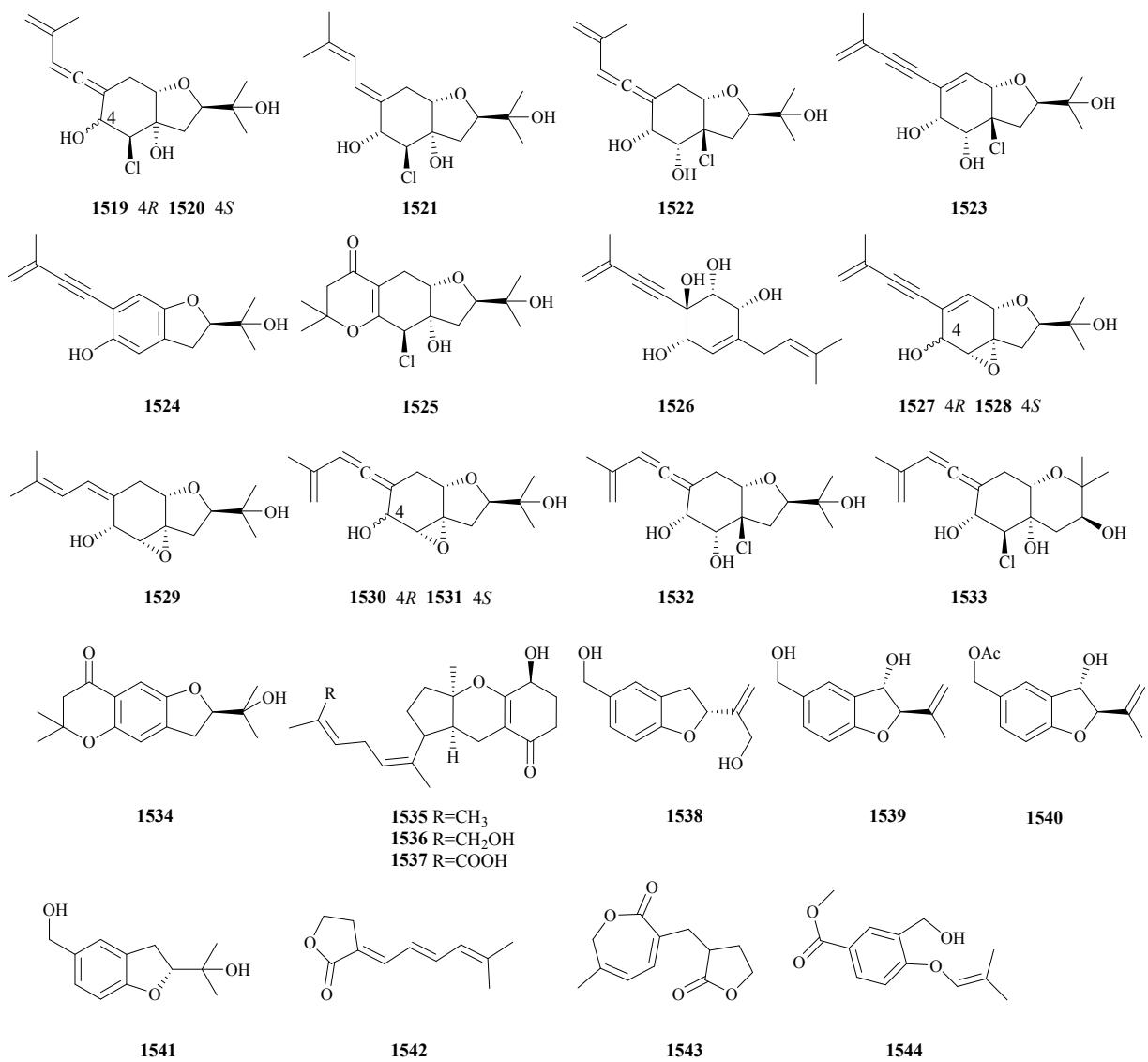












6. Miscellaneous meroterpenoids (1545-1585)

