

Natural sesquiterpene quinone/quinols: Chemistry, biological activities, and synthesis

Xin-Hui Tian,^{a,b} Li-Li Hong,^a Wei-Hua Jiao,^a and Hou-Wen Lin^{*,a}

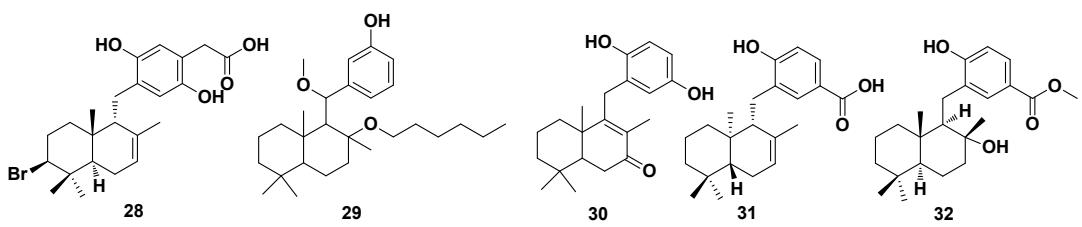
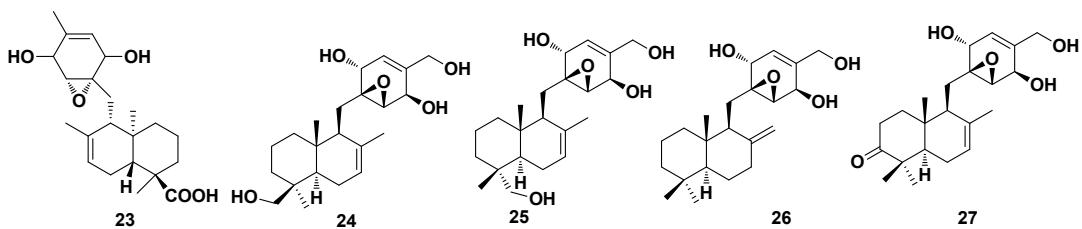
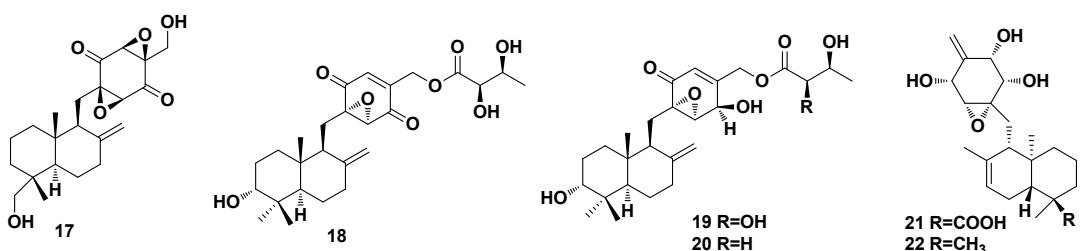
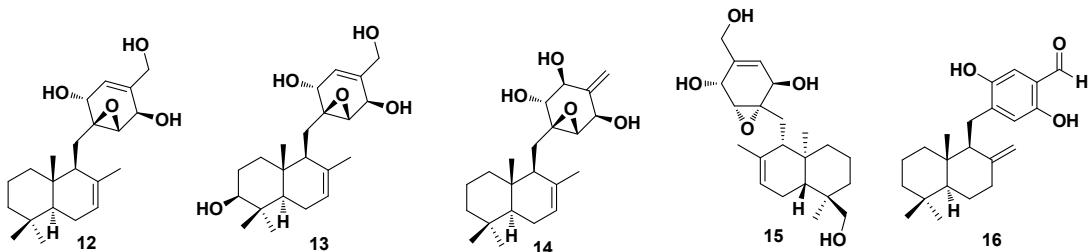
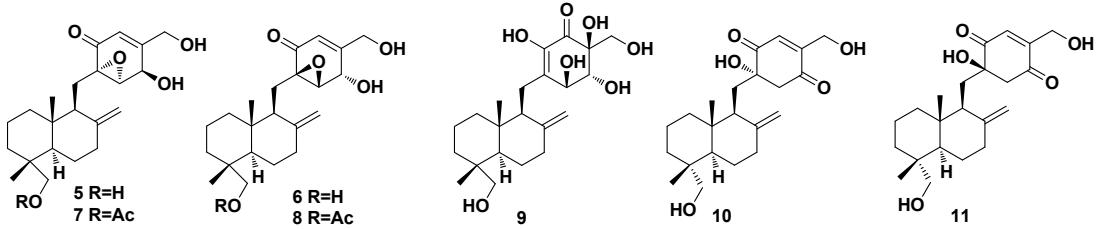
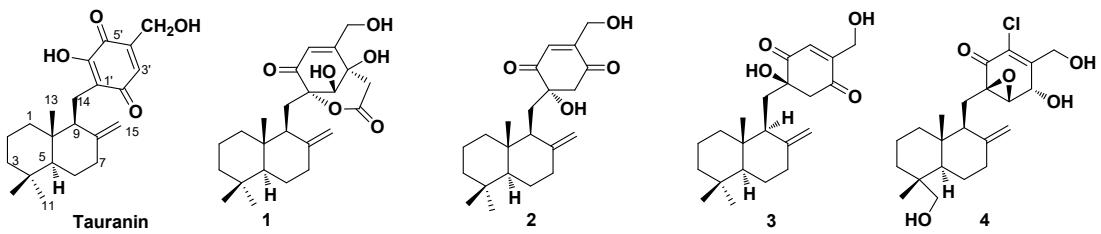
Affiliation

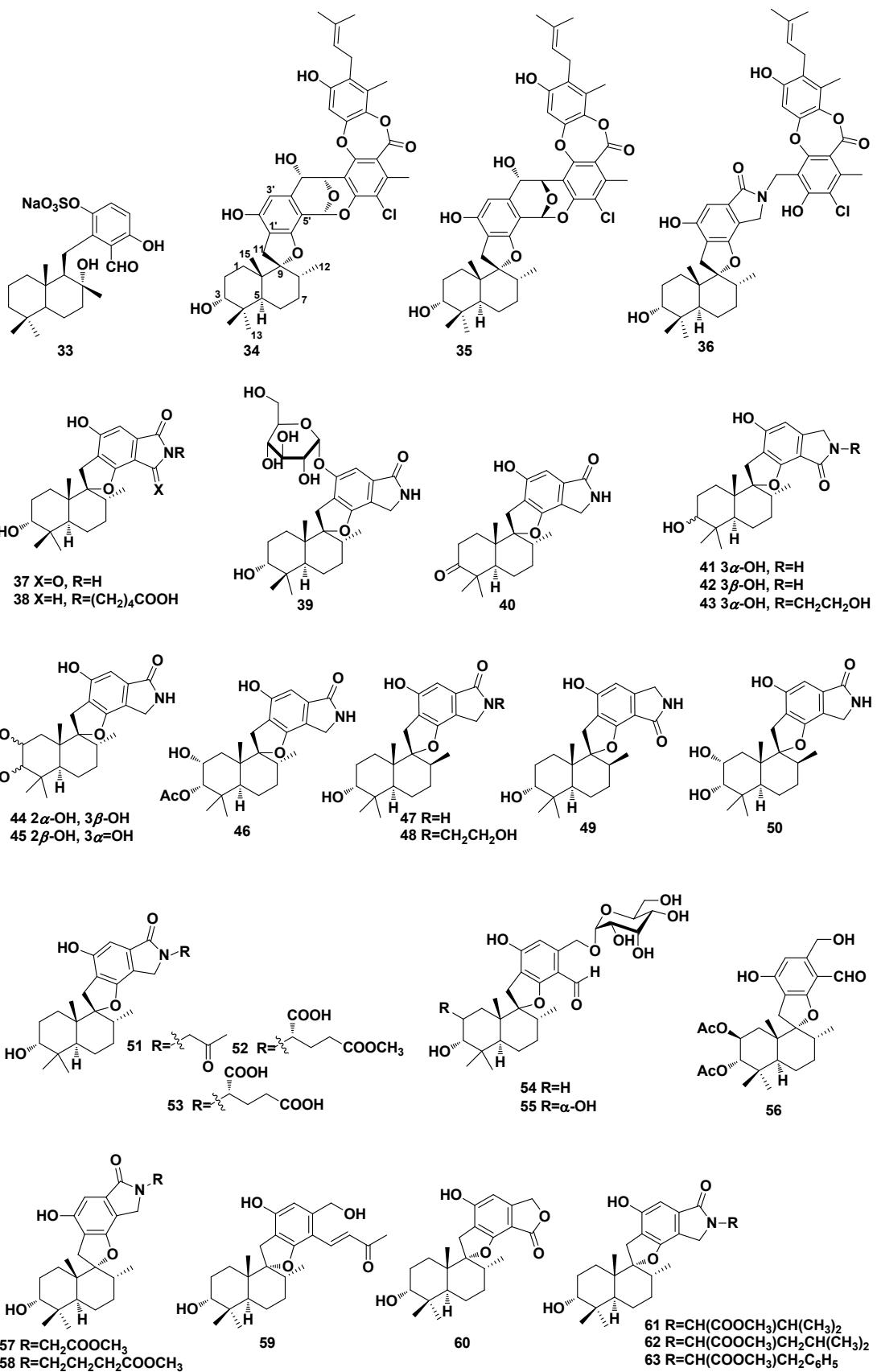
^aMarine Drugs Research Center, Department of Pharmacy, State Key Laboratory of Oncogenes and Related Genes, Ren Ji Hospital, School of Medicine, Laboratory of Microbial Metabolism and School of Life Science & Biotechnology, Shanghai Jiao Tong University, Shanghai 200127, P. R. China.

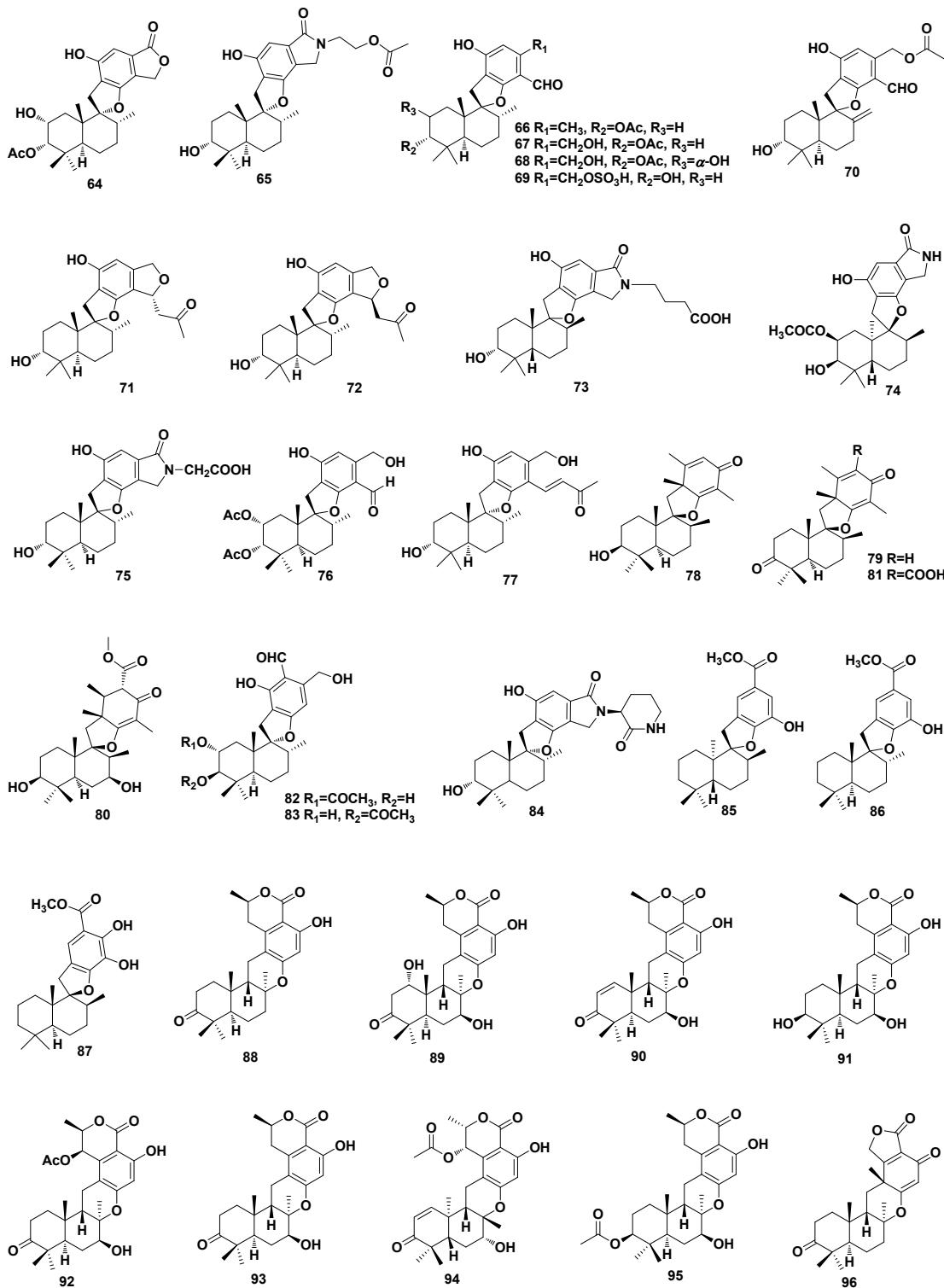
^bInstitute of Interdisciplinary Integrative Medicine Research, Shanghai University of Traditional Chinese Medicine, Shanghai 201203, P. R. China.

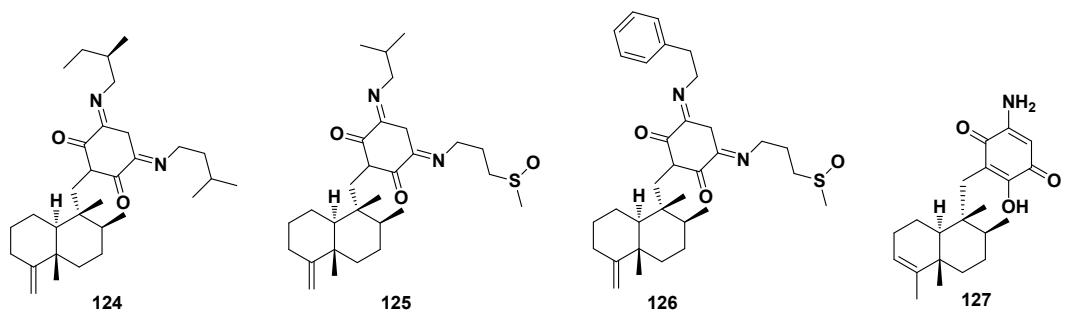
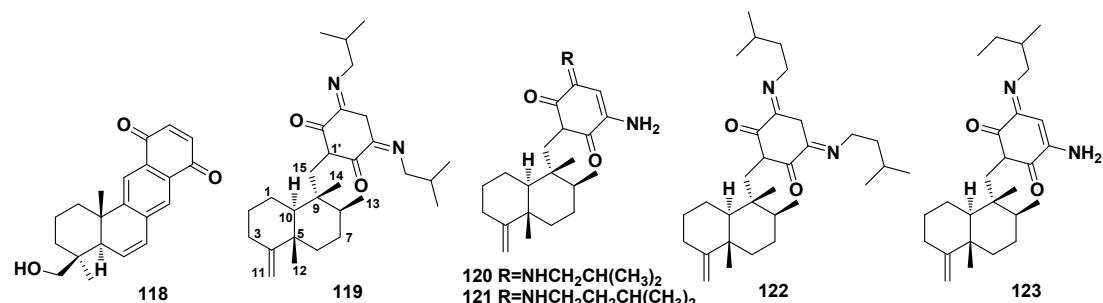
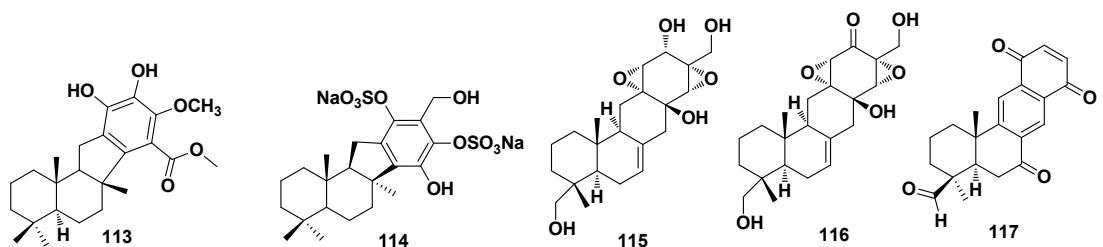
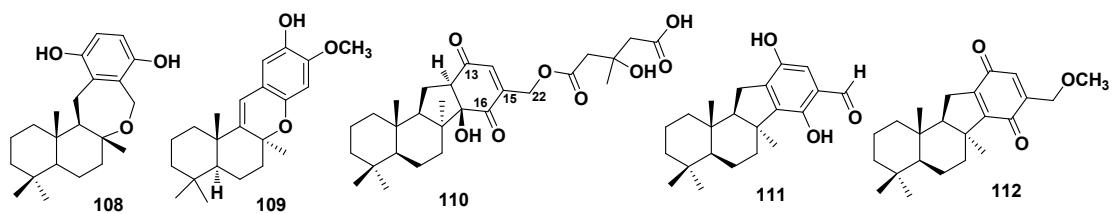
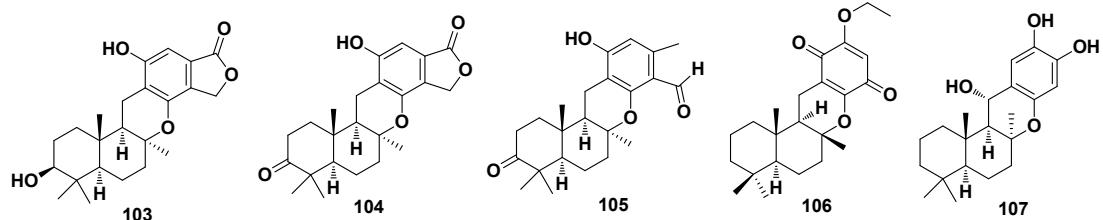
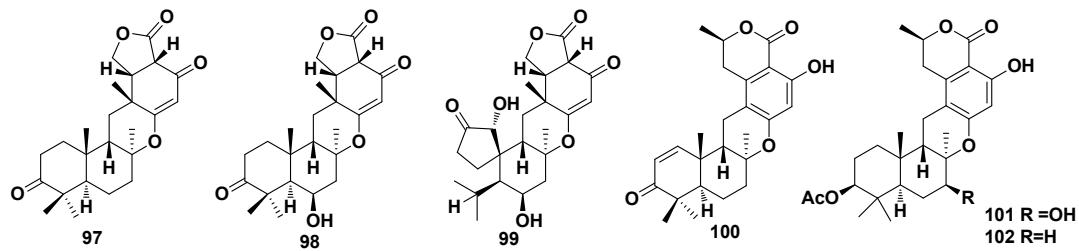
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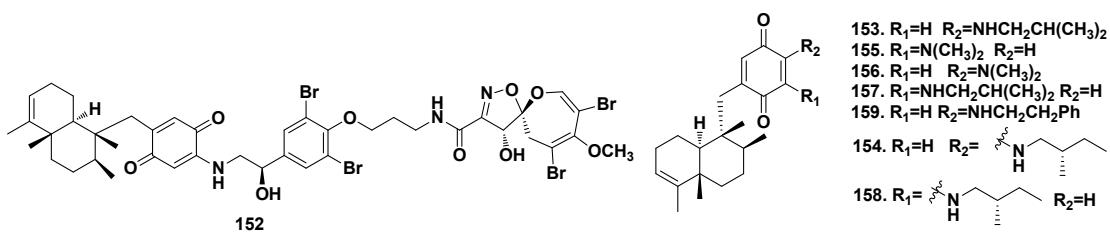
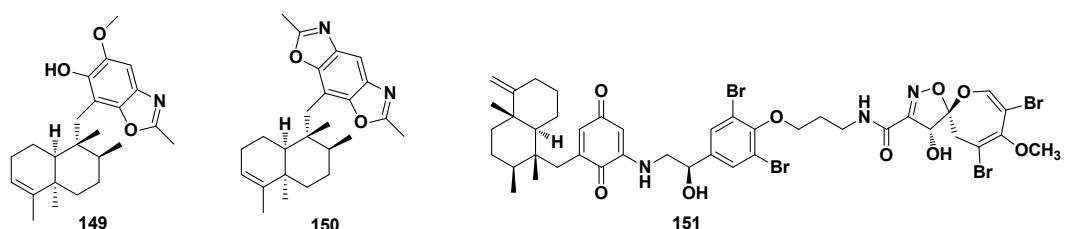
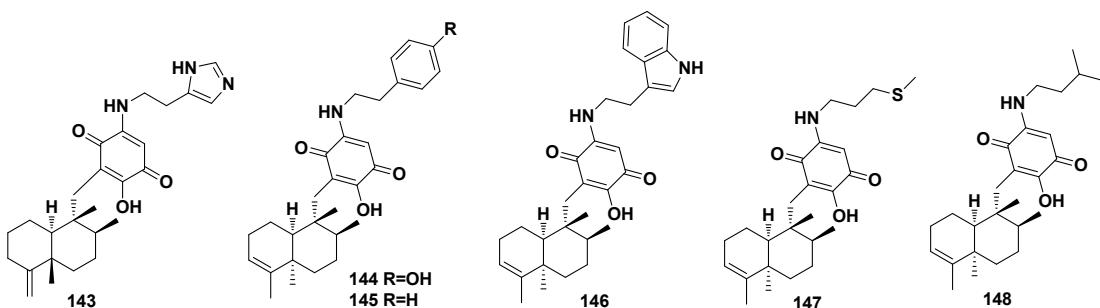
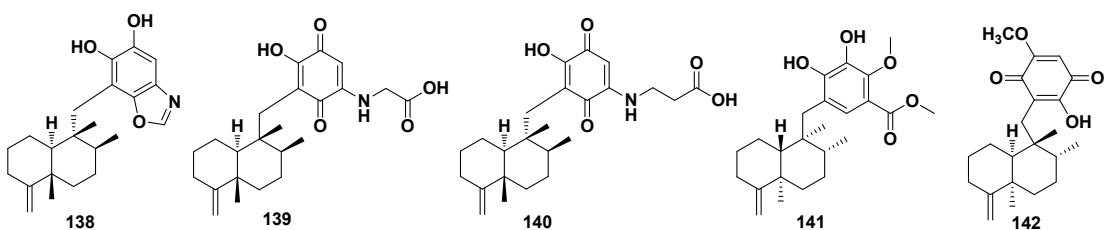
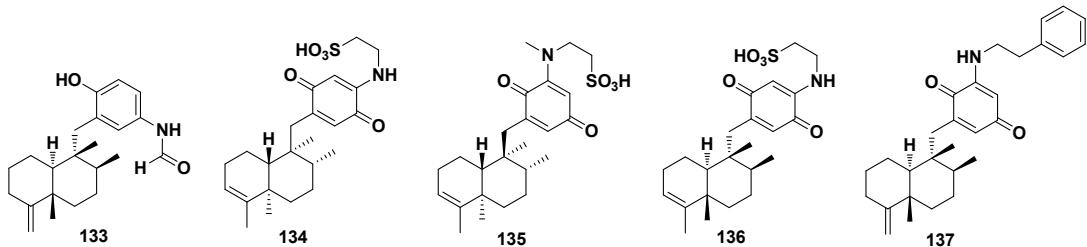
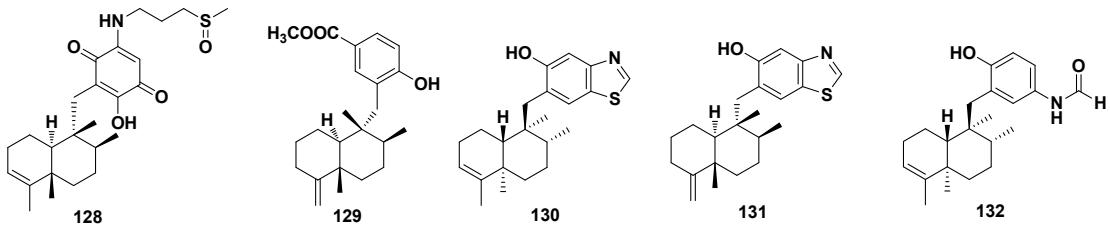
Contents-Compilation of all the sesquiterpene quinone/quinols

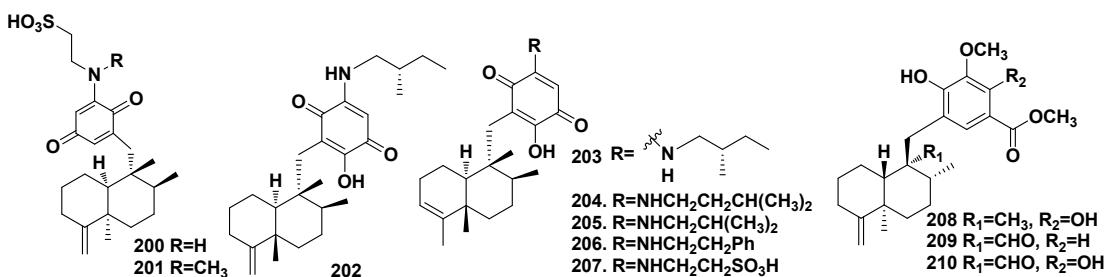
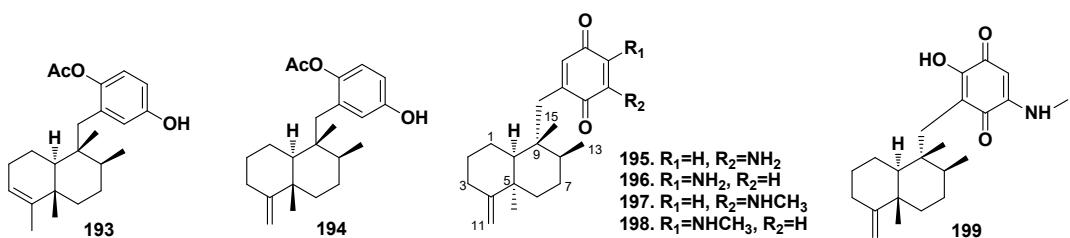
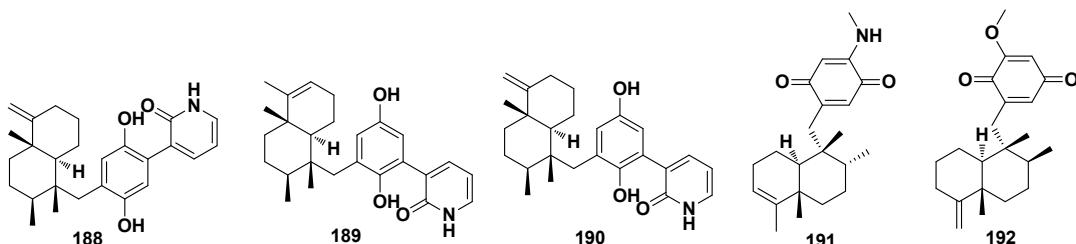
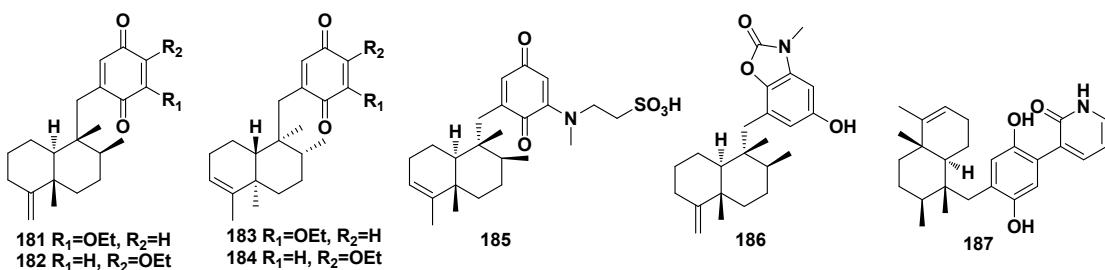
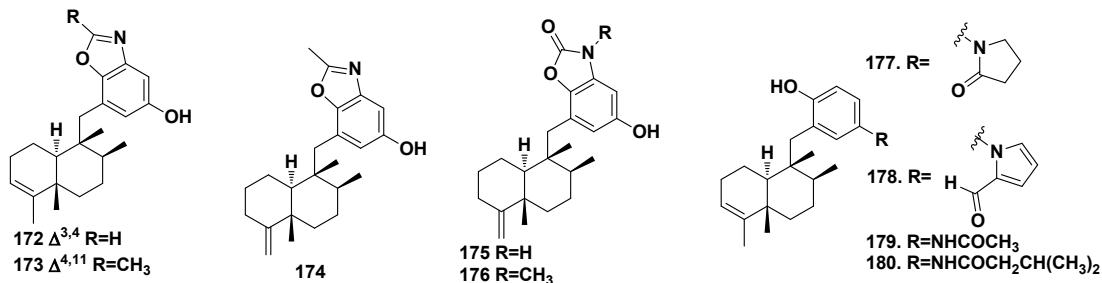
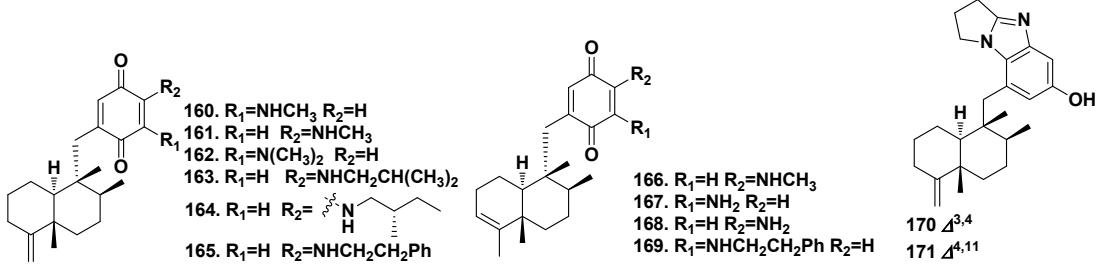


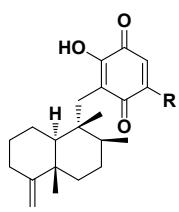




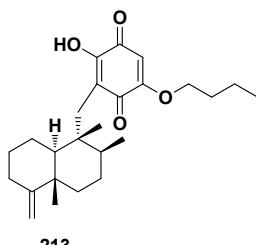




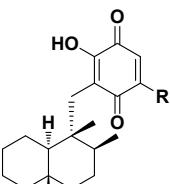




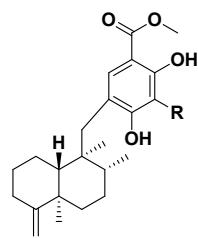
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212. R=NH(CH₂)₃SCH₃



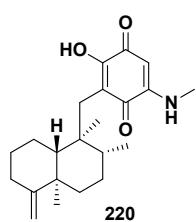
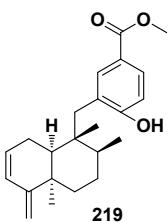
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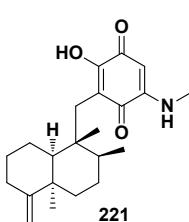
214. R=NHCH₂CH₂CH₂SOCH₃
215. R=NHCH₂CH₂SO₃H
216. R=NHCH₂CH₂OH



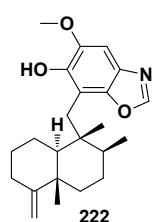
217. R=NHCHO
218. R=NHCOCH₂OH



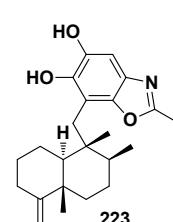
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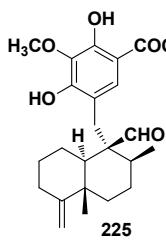
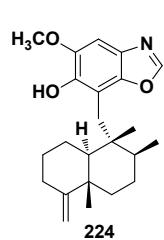
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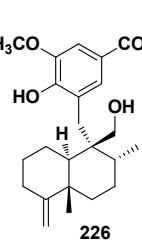
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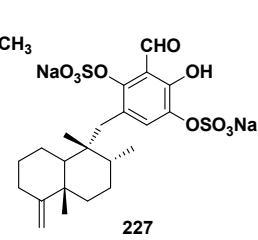
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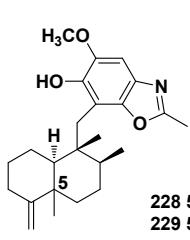
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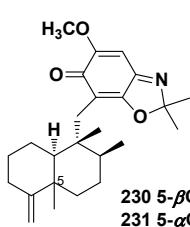
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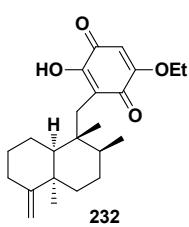
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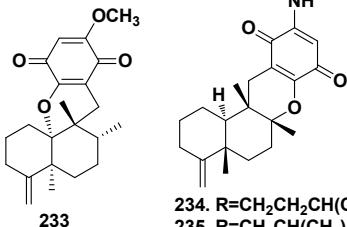
228 5- β CH₃
229 5- α CH₃



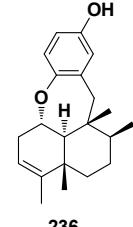
230 5- β CH₃
231 5- α CH₃



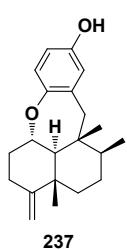
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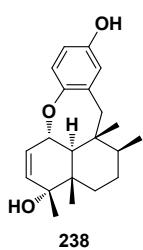
234. R=CH₂CH₂CH(CH₃)₂
235. R=CH₂CH(CH₃)₂



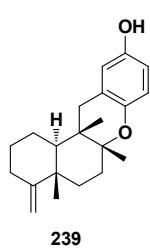
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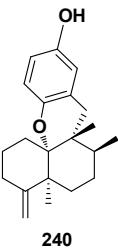
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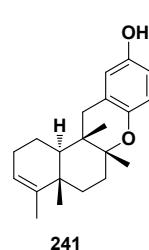
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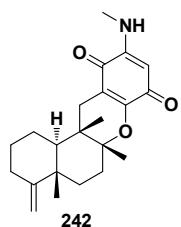
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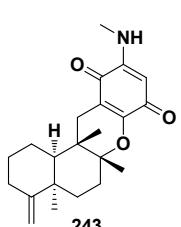
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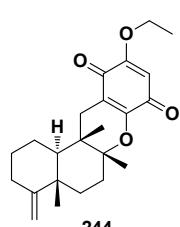
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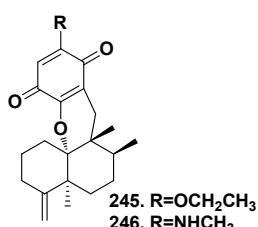
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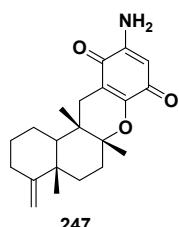
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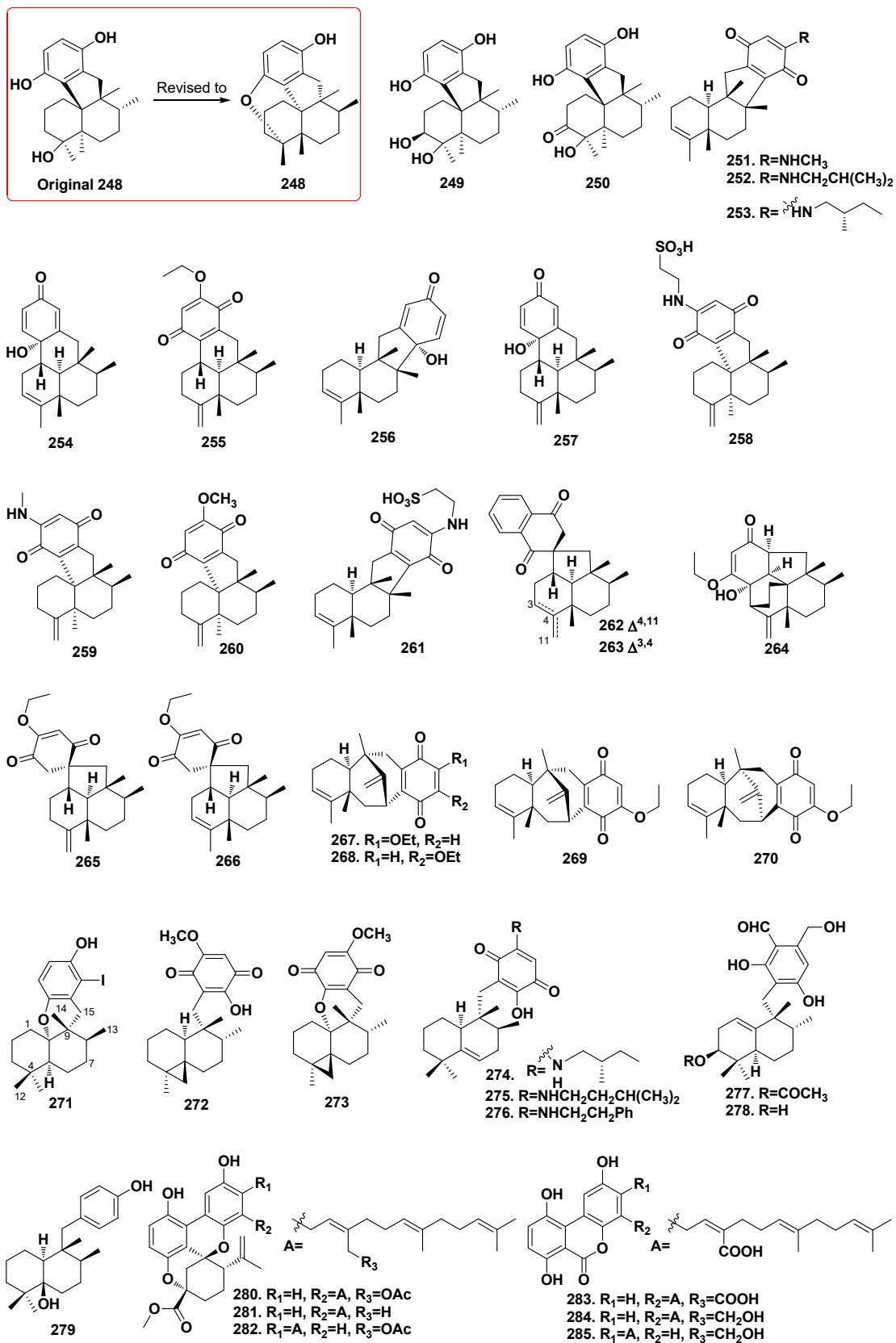
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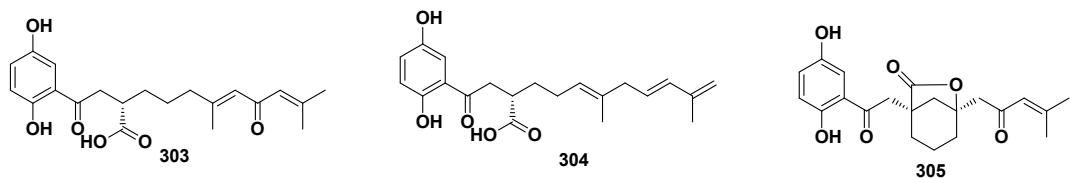
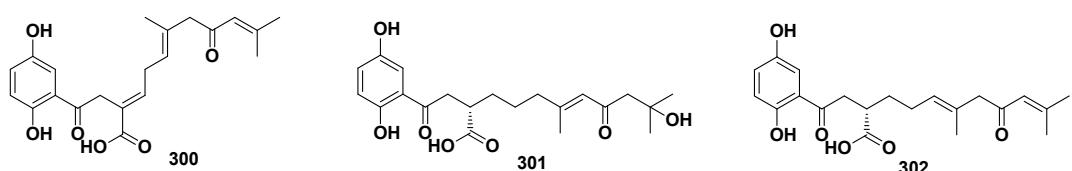
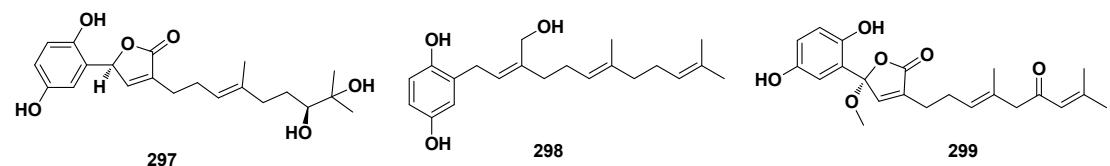
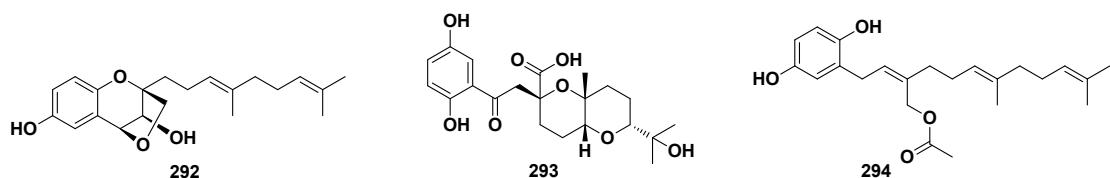
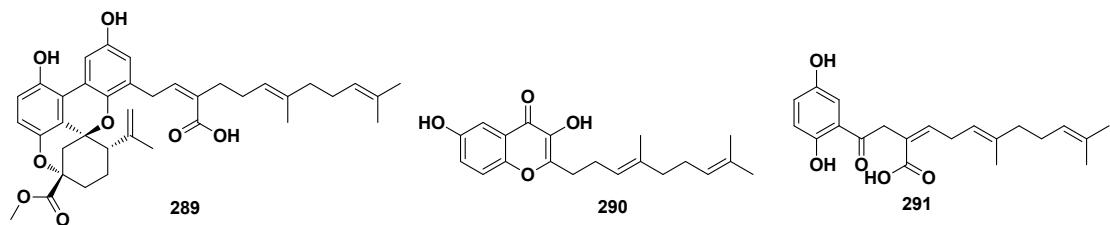
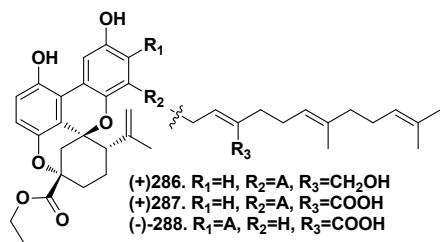
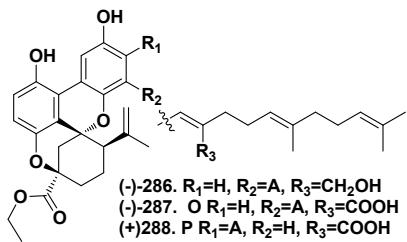


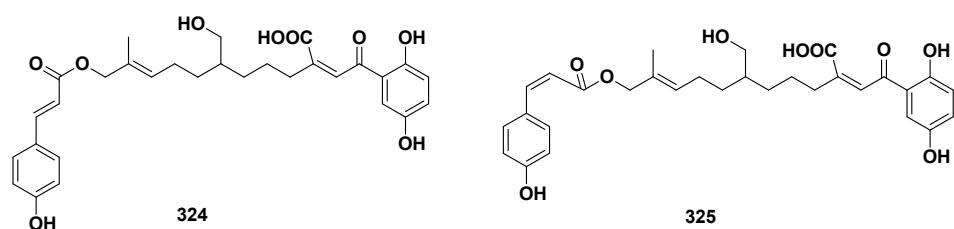
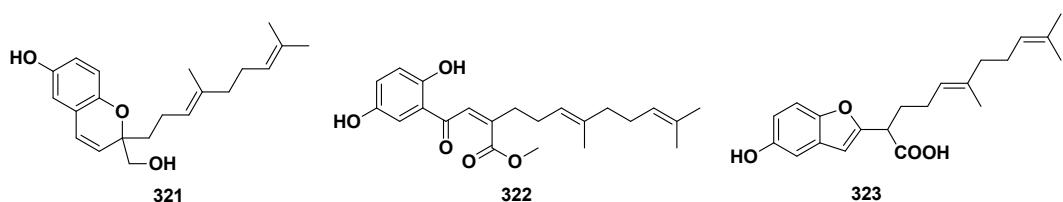
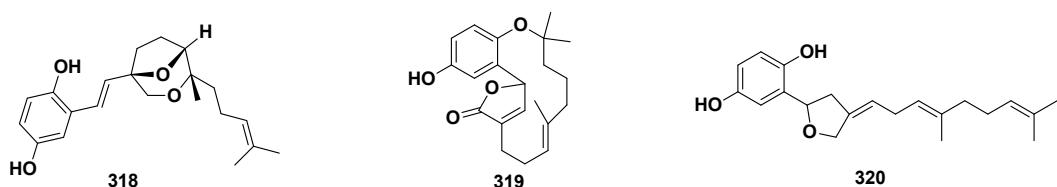
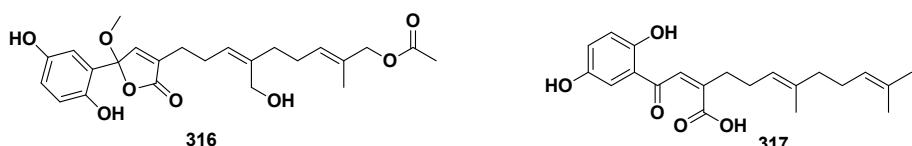
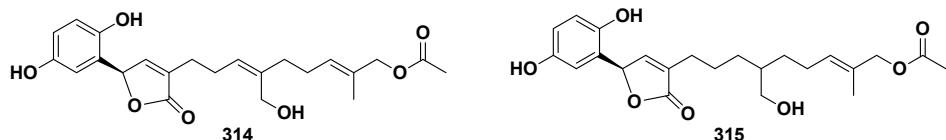
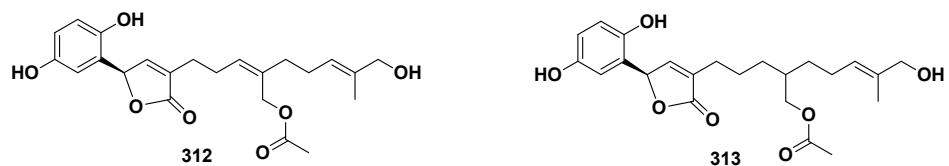
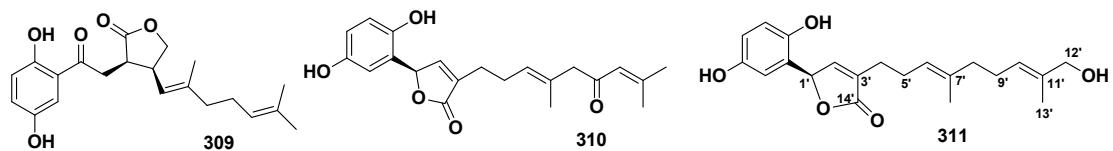
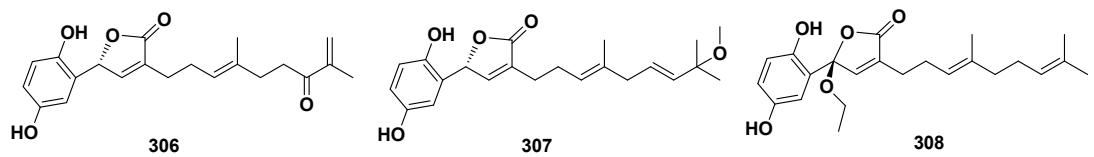
245. R=OCH₂CH₃
246. R=NHCH₃

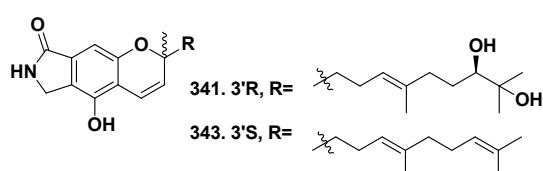
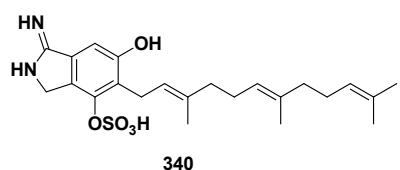
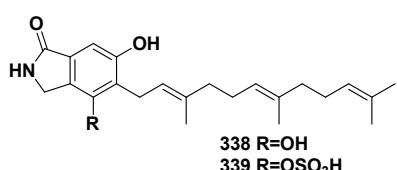
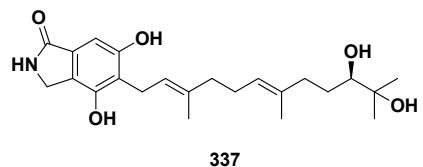
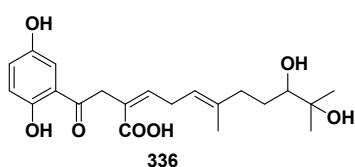
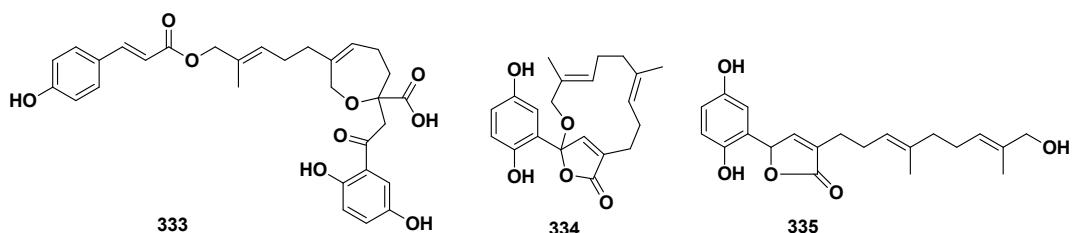
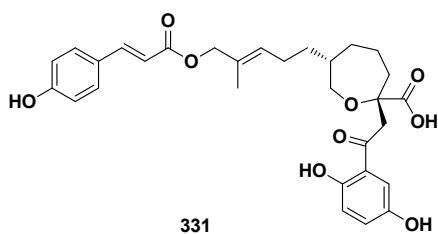
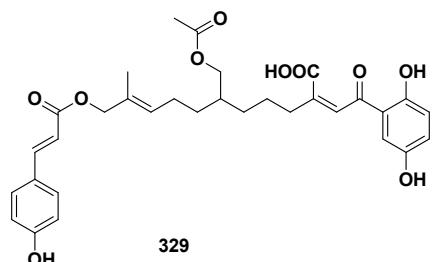
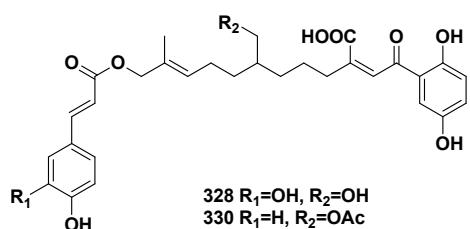
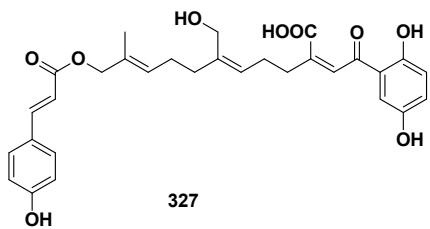
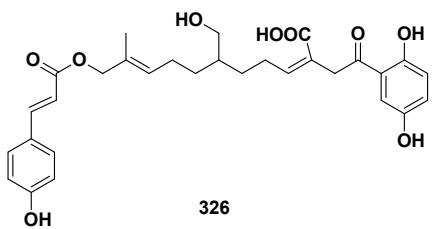


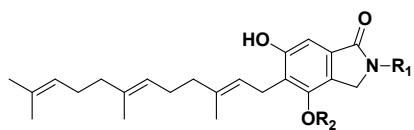
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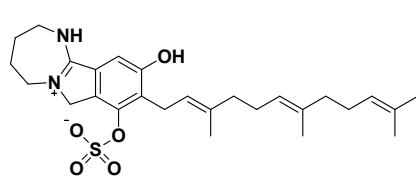








345. $R_1=CH_2CH_2OH$, $R_2=H$
346. $R_1=CH_2CH_2OH$, $R_2=SO_3H$
347. $R_1=CH_2CH_2CH_2COOH$, $R_2=SO_3H$
348. $R_1=(6\text{-}\alpha\text{-D-Glc})$, $R_2=SO_3H$



349

