

# The Cytochalasans: Potent Fungal Natural Products with Applications from Bench to Bedside

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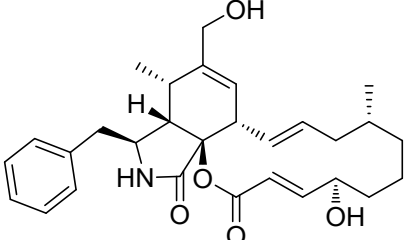
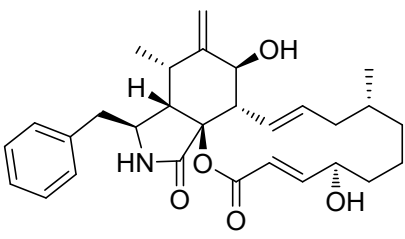
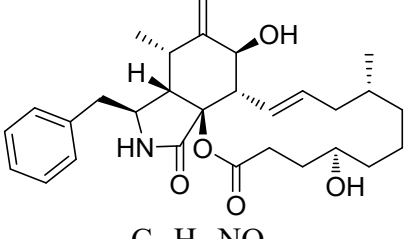
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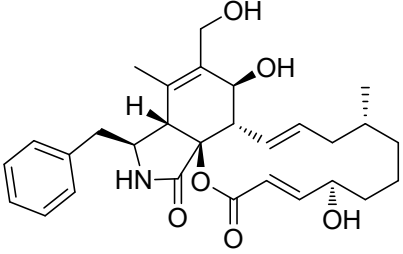
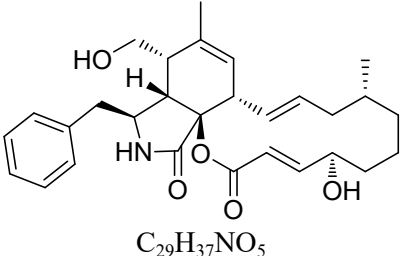
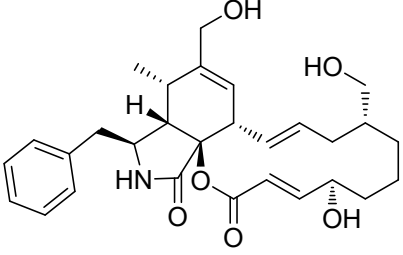
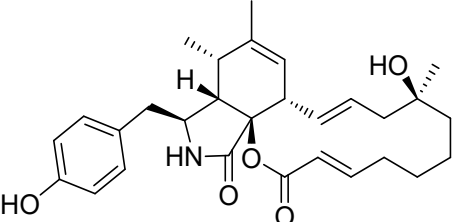
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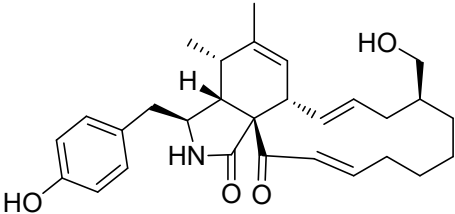
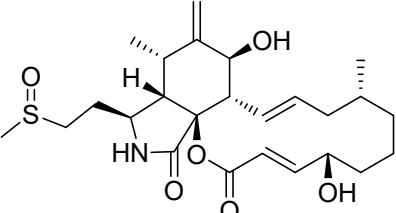
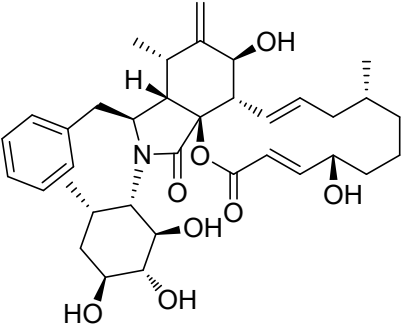
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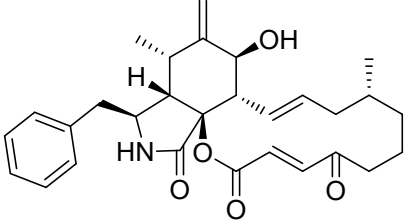
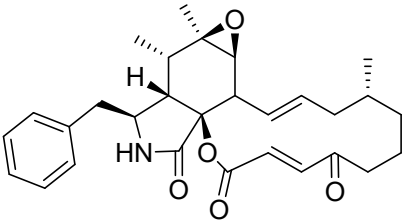
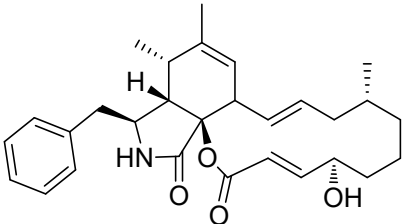
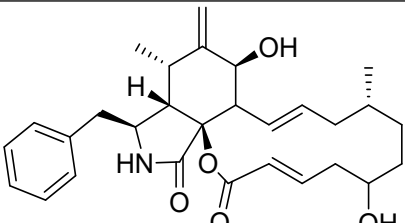
**Table 1:** List of cytochalasins reported and their Derivatives, exclusively isolated from Fungi.

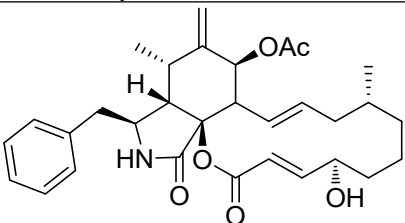
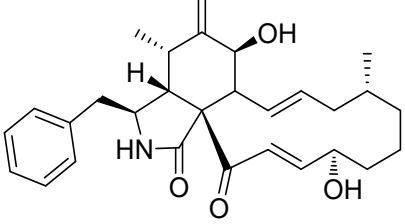
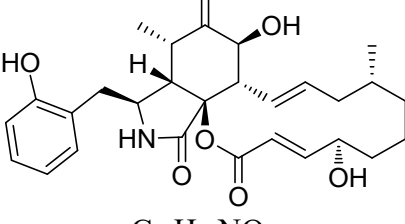
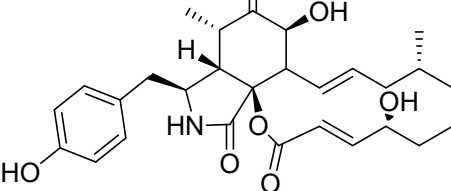
No.	<p style="text-align: center;"><b>Structure</b></p> <p style="text-align: center;"><b>MF</b></p> <p style="text-align: center;"><b>Name</b></p>	Source	Bioactivity	Reference
1	 <p style="text-align: center;"><math>C_{29}H_{37}NO_5</math> Cytochalasin Z2</p>	<p><i>Aspergillus</i> sp. LE2, <i>Phoma exigua</i> var. <i>heteromorpha</i>, <i>Phoma exigua</i> var. <i>exigua</i>, <i>Pyrenophora semeniperda</i>, <i>Perenniporia subacida</i>, <i>Preussia similis</i> DSM 32328</p>	<p>Phytotoxic, Actin distriputation (incomplete at 5 <math>\mu</math>g/mL)</p>	<p>1-6</p>
2	 <p style="text-align: center;"><math>C_{29}H_{37}NO_5</math> Cytochalasin B</p>	<p><i>Aspergillus</i> sp. LE2, <i>Boeremia exigua</i> (Desm.), <i>Phoma exigua</i> var. <i>heteromorpha</i>, <i>Phoma exigua</i> var. <i>exigua</i>, <i>Pyrenophora semeniperda</i>, <i>Sparticola triseptate</i>, <i>Perenniporia subacida</i>, <i>Preussia similis</i> DSM 32328, <i>Xylaria</i> sp</p>	<p>Phytotoxic, cytotoxic, nematocidal and antimicrobial, Actin distriputation (completely at 1 <math>\mu</math>g/mL)</p>	<p>1-9</p>
3	 <p style="text-align: center;"><math>C_{29}H_{39}NO_5</math> Dihydrocytochalasin B</p>	<p><i>Aspergillus</i> sp. LE2, <i>Perenniporia subacida</i></p>	<p>Not determined for any relevant biological activity</p>	<p>1,5</p>

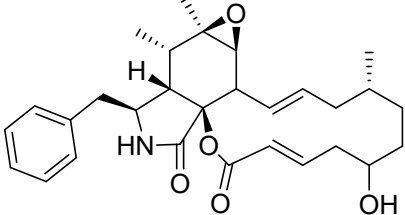
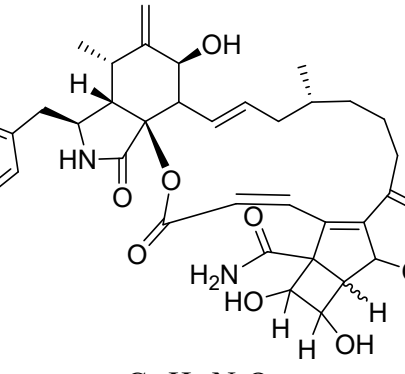
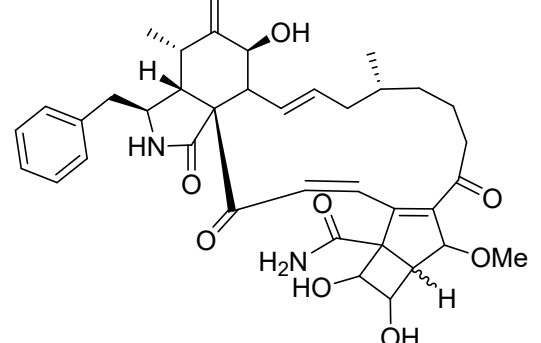
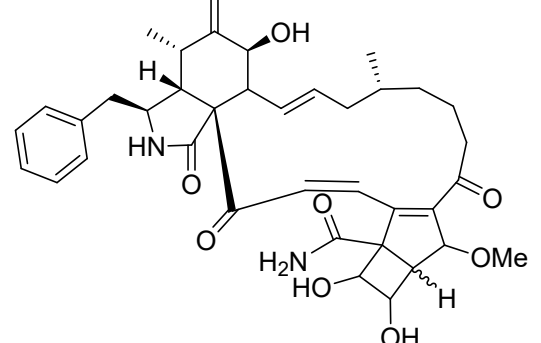
4	 <p style="text-align: center;"><math>C_{29}H_{37}NO_6</math> Perenniporin A</p>	<i>Perenniporia subacida</i>	Displayed cytotoxicity and no anti-inflammatory	5
5	 <p style="text-align: center;"><math>C_{29}H_{37}NO_5</math> Perenniporin B</p>	<i>Perenniporia subacida</i>	Displayed neither cytotoxicity nor anti-inflammatory	5
6	 <p style="text-align: center;"><math>C_{29}H_{37}NO_6</math> Perenniporin C</p>	<i>Perenniporia subacida</i>	Cytotoxicity, anti-inflammatory	5
7		<i>Boeremia exigua</i> (Desm.)	Displayed anti-inflammatory and no cytotoxicity	7



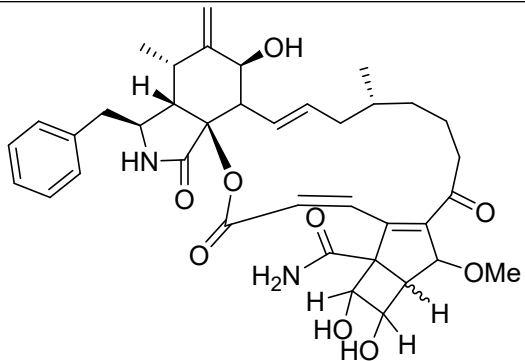
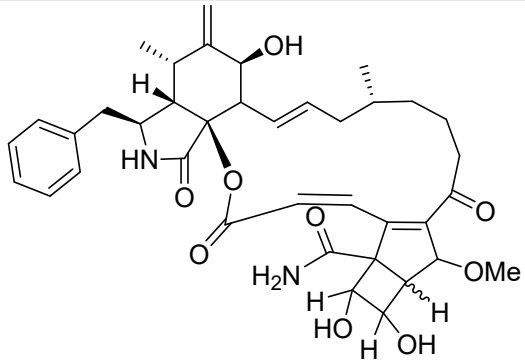

11	 <p>Chemical structure of Boerechalsin E, a complex polycyclic molecule with a central ring system, a hydroxyl group, and a long side chain.</p> <p><math>C_{29}H_{37}NO_4</math> Boerechalsin E</p>	<i>Boeremia exigua</i> (Desm.)	Displayed anti-inflammatory and no cytotoxicity	7
12	 <p>Chemical structure of Boerechalsin F, a complex polycyclic molecule with a central ring system, a hydroxyl group, and a long side chain.</p> <p><math>C_{25}H_{37}NO_6S</math> Boerechalsin F</p>	<i>Boeremia exigua</i> (Desm.)	Displayed neither cytotoxicity nor anti-inflammatory	7
13	 <p>Chemical structure of Boerechalsin G, a complex polycyclic molecule with a central ring system, a hydroxyl group, and a long side chain.</p> <p><math>C_{36}H_{49}NO_8</math> Boerechalsin G</p>	<i>Boeremia exigua</i> (Desm.)	Displayed neither cytotoxicity nor anti-inflammatory	7

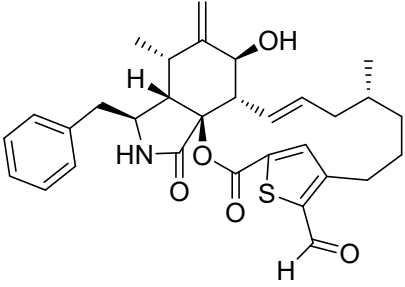
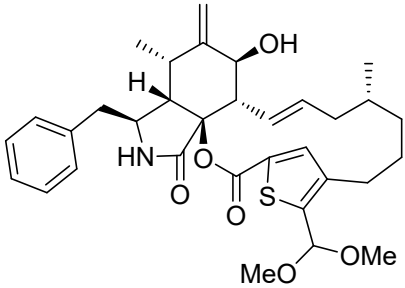
14	 <p style="text-align: center;">C<sub>29</sub>H<sub>35</sub>NO<sub>5</sub> Cytochalasin A</p>	<p style="text-align: center;"><i>Aspergillus</i> sp. LE2, <i>Phoma exigua</i> var. <i>heteromorpha</i></p>	<p style="text-align: center;">Nematicidal and antimicrobial</p>	<p style="text-align: center;">1,2,9</p>
15	 <p style="text-align: center;">C<sub>29</sub>H<sub>35</sub>NO<sub>5</sub> Cytochalasin F</p>	<p style="text-align: center;"><i>Phoma exigua</i> var. <i>heteromorpha</i>, <i>Phoma exigua</i> var. <i>exigua</i>, <i>Pyrenophora semeniperda</i>, <i>Preussia similis</i> DSM 32328</p>	<p style="text-align: center;">Phytotoxic, Actin distriputation (incomplete at 5 µg/mL)</p>	<p style="text-align: center;">2-4,6</p>
16	 <p style="text-align: center;">C<sub>29</sub>H<sub>37</sub>NO<sub>4</sub> Cytochalasin T</p>	<p style="text-align: center;"><i>Phoma exigua</i> var. <i>heteromorpha</i>, <i>Pyrenophora semeniperda</i></p>	<p style="text-align: center;">Phytotoxic</p>	<p style="text-align: center;">2,4</p>
17	 <p style="text-align: center;">C<sub>29</sub>H<sub>37</sub>NO<sub>5</sub></p>	<p style="text-align: center;"><i>Phoma exigua</i> var. <i>heteromorpha</i>, <i>Phoma exigua</i> var. <i>exigua</i>, <i>Pyrenophora semeniperda</i></p>	<p style="text-align: center;">Phytotoxic</p>	<p style="text-align: center;">2-4</p>

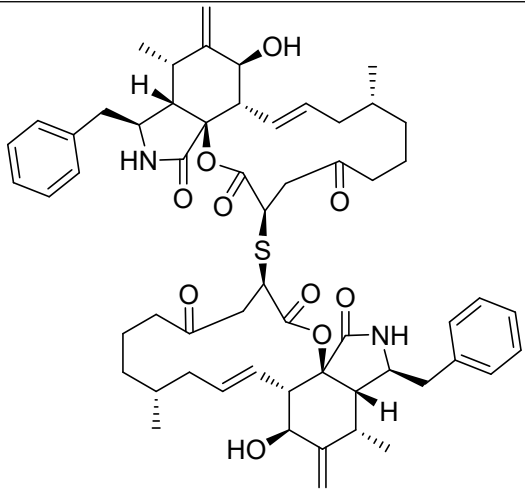
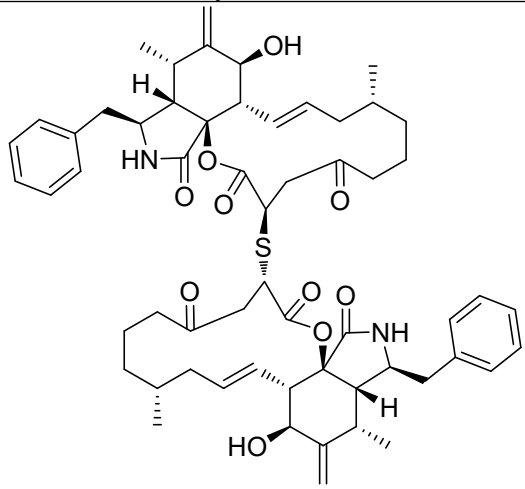
	Cytochalasin Z3			
18	 <p><math>C_{31}H_{39}NO_6</math> 7-O-acetylcytochalasin B</p>	<i>Phoma exigua</i> var. <i>heteromorpha</i>	Not determined for any relevant biological activity	2
19	 <p><math>C_{29}H_{37}NO_4</math> Deoxaphomin</p>	<i>Phoma exigua</i> var. <i>heteromorpha</i> , <i>Phoma exigua</i> var. <i>exigua</i> , <i>Pyrenophora semeniperda</i> , <i>Preussia similis</i> DSM 32328	Phytotoxic, Actin distriputation (Completely at 1 $\mu$ g/mL)	2-4,6
20	 <p><math>C_{24}H_{37}NO_4</math> Cytochalasin Z4</p>	<i>Aspergillus</i> sp. LE2, <i>Phoma exigua</i> var. <i>heteromorpha</i>	Displayed no phytotoxicity	1,2
21		<i>Phoma exigua</i> var. <i>heteromorpha</i>	Displayed no phytotoxicity	2

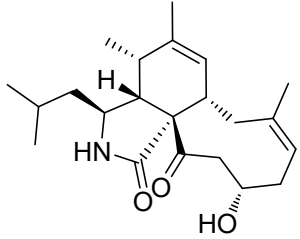
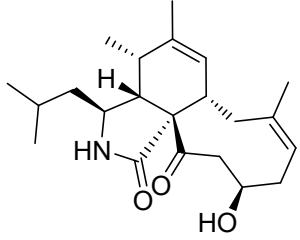
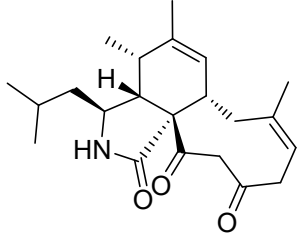
	<p><math>C_{29}H_{37}NO_6</math> Cytochalasin Z5</p>  <p>The structure of Cytochalasin Z5 is a complex polycyclic molecule. It features a central bicyclic core with a hydroxyl group and a methyl group. Attached to this core are a phenylacetamido group, a long unsaturated side chain with a terminal hydroxyl group, and a methyl group. The overall structure is highly substituted and contains several stereocenters.</p>			
22	<p><math>C_{29}H_{37}NO_5</math> Cytochalasin Z6</p>  <p>The structure of Cytochalasin Z6 is similar to Z5 but lacks the terminal hydroxyl group on the long side chain. It has a different stereochemistry at the chiral centers, particularly at the position where the hydroxyl group was in Z5.</p>	<i>Phoma exigua</i> var. <i>heteromorpha</i>	Phytotoxic	2
23	<p><math>C_{38}H_{46}N_2O_9</math> Phomachalasin A</p>  <p>The structure of Phomachalasin A is a very complex polycyclic molecule. It features a central bicyclic core with a hydroxyl group and a methyl group. Attached to this core are a phenylacetamido group, a long unsaturated side chain with a terminal hydroxyl group, and a methyl group. The overall structure is highly substituted and contains several stereocenters.</p>	<i>Phoma exigua</i> var. <i>exigua</i>	Displayed neither phytotoxicity nor antifungal	10
24	 <p>This is a duplicate of the structure of Phomachalasin A shown in row 23.</p>	<i>Phoma exigua</i> var. <i>exigua</i>	Displayed neither phytotoxicity nor antifungal	10

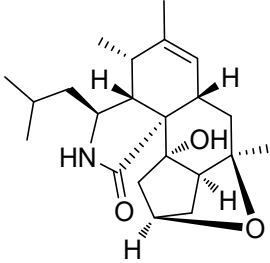
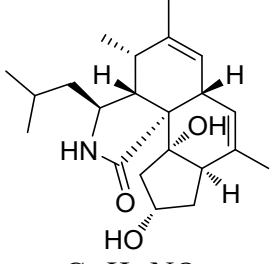
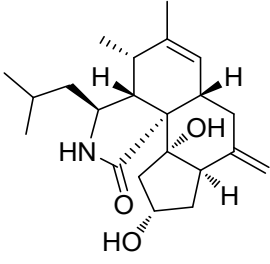


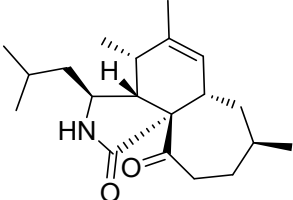
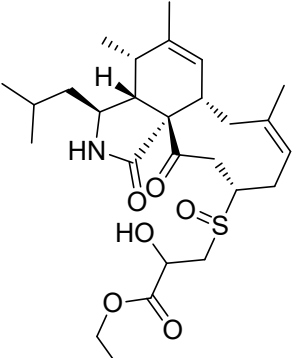
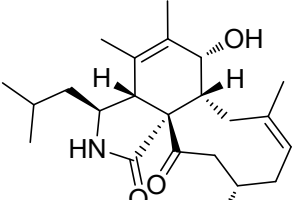
	<p><math>C_{38}H_{46}N_2O_8</math> Phomachalasin B</p>  <p>The structure of Phomachalasin B is a complex polycyclic molecule. It features a central ring system with a methyl group, a hydroxyl group, and a phenylamino group. A long chain with a double bond and a methyl group is attached to the ring. A side chain contains a methyl group, a hydroxyl group, and a methyl group. The structure is highly substituted and contains multiple stereocenters.</p>			
25	<p><math>C_{38}H_{46}N_2O_9</math> Phomachalasin C</p>  <p>The structure of Phomachalasin C is a complex polycyclic molecule, similar to Phomachalasin B but with an additional hydroxyl group. It features a central ring system with a methyl group, a hydroxyl group, and a phenylamino group. A long chain with a double bond and a methyl group is attached to the ring. A side chain contains a methyl group, a hydroxyl group, and a methyl group. The structure is highly substituted and contains multiple stereocenters.</p>	<i>Phoma exigua var. exigua</i>	Displayed neither phytotoxicity nor antifungal	10
26	<p><math>C_{38}H_{46}N_2O_9</math> Phomachalasin D</p>  <p>The structure of Phomachalasin D is a complex polycyclic molecule, similar to Phomachalasin C but with a different stereochemistry at one of the hydroxyl groups. It features a central ring system with a methyl group, a hydroxyl group, and a phenylamino group. A long chain with a double bond and a methyl group is attached to the ring. A side chain contains a methyl group, a hydroxyl group, and a methyl group. The structure is highly substituted and contains multiple stereocenters.</p>	<i>Phoma exigua var. exigua</i>	Displayed neither phytotoxicity nor antifungal	10

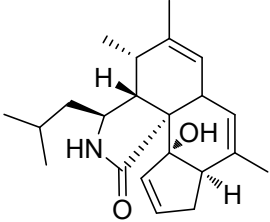
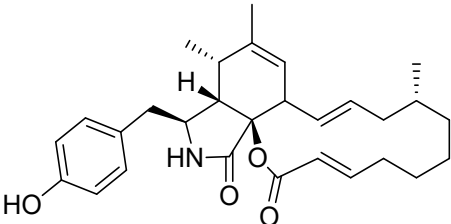
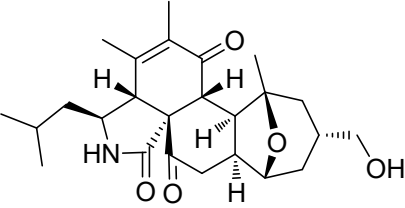
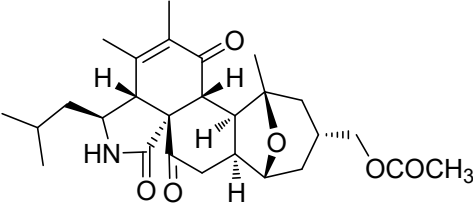
27	 <p>Chemical structure of Thiocytochalasin A, a complex polyketide derivative. It features a central six-membered ring with a methyl group, a hydroxyl group, and a phenylamino group. This ring is linked to a thiophene ring, which is further substituted with a propyl chain and a formyl group.</p> <p><math>C_{31}H_{35}NO_5S</math> Thiocytochalasin A</p>	<i>Phoma multirostrata</i> XJ-2-1	Cytotoxic	11
28	 <p>Chemical structure of Thiocytochalasin B, similar to Thiocytochalasin A but with two methoxy groups instead of a formyl group on the thiophene ring.</p> <p><math>C_{33}H_{41}NO_6S</math> Thiocytochalasin B</p>	<i>Phoma multirostrata</i> XJ-2-1	Cytotoxic	11

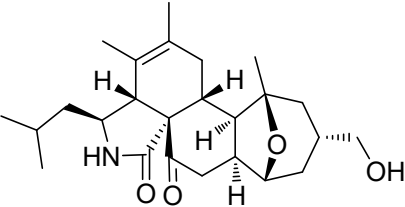
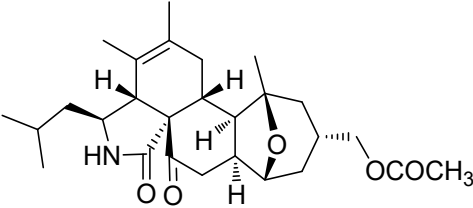
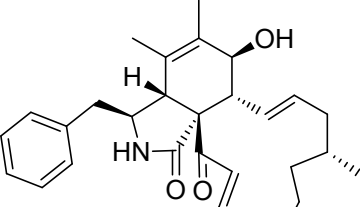
29	 <p>The structure of Thiocytochalasin C is a complex polycyclic molecule. It features a central six-membered ring with a methyl group at the top and a hydroxyl group at the right. This ring is substituted with a benzylamino group (left), a long-chain side chain with a double bond and a ketone group (top-right), and a sulfur atom bonded to a cyclohexane ring (bottom). This cyclohexane ring is further substituted with a hydroxyl group (left), a methyl group (bottom), and a benzylamino group (right). The sulfur atom is also bonded to a long-chain side chain with a double bond and a ketone group (top).</p> <p><math>C_{58}H_{72}N_2O_{10}S</math> Thiocytochalasin C</p>	<i>Phoma multirostrata</i> XJ-2-1	Cytotoxic	11
30	 <p>The structure of Thiocytochalasin D is very similar to Thiocytochalasin C. It has the same core polycyclic framework. The main difference is the sulfur atom's bonding: in Thiocytochalasin D, the sulfur atom is bonded to two sulfur atoms (forming a disulfide bridge) instead of being bonded to a cyclohexane ring as in Thiocytochalasin C. The rest of the molecule, including the methyl, hydroxyl, and benzylamino groups, is identical to Thiocytochalasin C.</p> <p><math>C_{58}H_{72}N_2O_{10}S_2</math> Thiocytochalasin D</p>	<i>Phoma multirostrata</i> XJ-2-1	Cytotoxic	11

31	 <p>Chemical structure of Periconiasin A, a complex polycyclic molecule with a central ring system, a methyl group, a hydroxyl group, and a side chain with a methyl group and a hydroxyl group.</p> <p><math>C_{22}H_{33}NO_3</math> Periconiasin A</p>	<i>Periconia</i> sp	Cytotoxic	12
32	 <p>Chemical structure of Periconiasin B, similar to Periconiasin A but with a different side chain configuration.</p> <p><math>C_{22}H_{33}NO_3</math> Periconiasin B</p>	<i>Periconia</i> sp	Cytotoxic	12
33	 <p>Chemical structure of Periconiasin C, similar to Periconiasin A but with a different side chain configuration.</p> <p><math>C_{22}H_{31}NO_3</math> Periconiasin C</p>	<i>Periconia</i> sp	Displayed no cytotoxicity	12

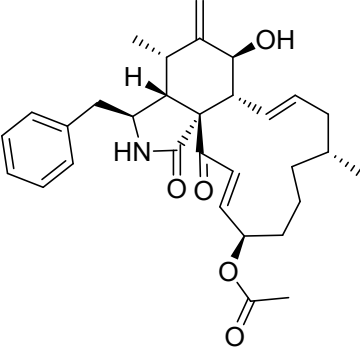
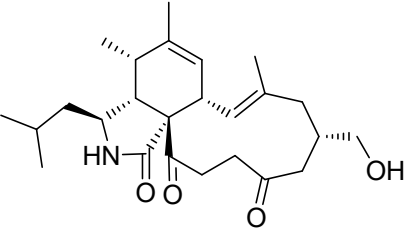
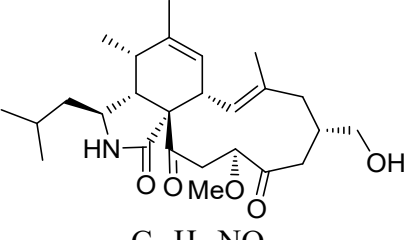
34	 <p>Chemical structure of Periconiasin D, a complex polycyclic molecule with a decalin core, a piperidine ring, and a cyclopentane ring. It features a methyl group, an isobutyl group, a hydroxyl group, and a nitro group. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{22}H_{33}NO_3</math> Periconiasin D</p>	<i>Periconia</i> sp	Displayed no cytotoxicity, anti-inflammatory and anti-HIV	13
35	 <p>Chemical structure of Periconiasin E, similar to Periconiasin D but with a different stereochemistry at the C-10 position, where the hydroxyl group is on a double bond.</p> <p><math>C_{22}H_{33}NO_3</math> Periconiasin E</p>	<i>Periconia</i> sp	Displayed no cytotoxicity, anti-inflammatory and anti-HIV	13
36	 <p>Chemical structure of Periconiasin F, similar to Periconiasin D but with a different stereochemistry at the C-10 position, where the hydroxyl group is on a double bond and there is an additional methyl group at C-11.</p> <p><math>C_{22}H_{33}NO_3</math> Periconiasin F</p>	<i>Periconia</i> sp	Displayed anti-HIV, no cytotoxicity, and anti-inflammatory	13

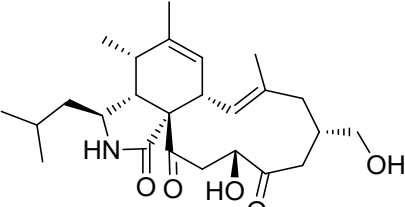
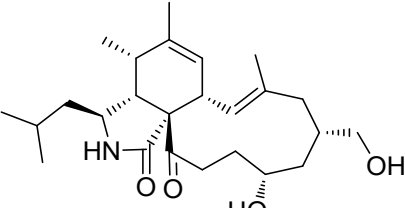
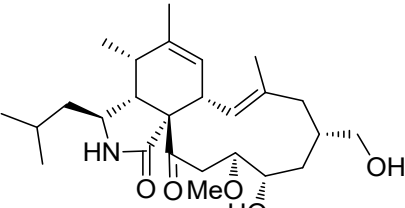
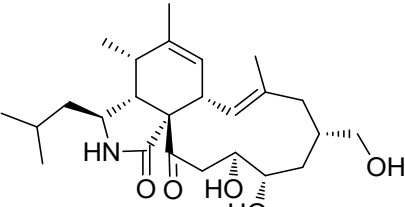
37	 <p> <math>C_{20}H_{31}NO_2</math>  Periconiasin G </p>	<i>Periconia</i> sp	Displayed anti-HIV, and no cytotoxicity	14
38	 <p> <math>C_{27}H_{41}NO_6S</math>  Periconiasin H </p>	<i>Periconia</i> sp	Displayed neither anti-HIV, nor cytotoxicity	14
39	 <p> <math>C_{22}H_{33}NO_4</math>  Periconiasin I </p>	<i>Periconia</i> sp	Displayed cytotoxicity and no anti-HIV activity	15

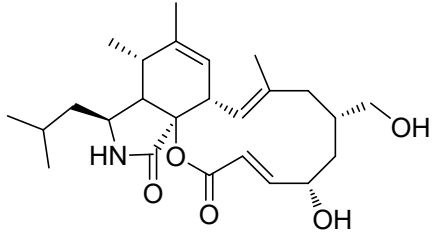
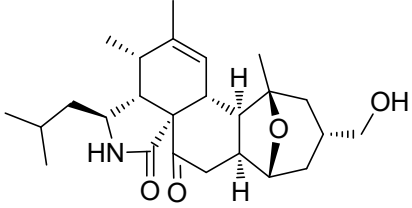
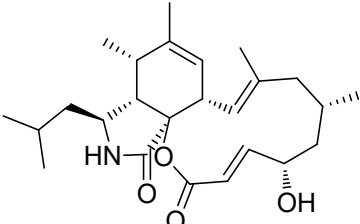
40	 <p> <math>C_{22}H_{31}NO_2</math>  Periconiasin J </p>	<i>Periconia sp</i>	Displayed anti-HIV, and no cytotoxicity	15
41	 <p> <math>C_{29}H_{37}NO_4</math>  Cytochalasin Z1 </p>	<i>Pyrenophora semeniperda</i>	Phytotoxic	4
42	 <p> <math>C_{25}H_{35}NO_5</math>  Pycnidiophorone A </p>	<i>Pycnidiophora dispersa</i>	Cytotoxic	16
43	 <p> <math>C_{27}H_{37}NO_6</math>  Pycnidiophorone B </p>	<i>Pycnidiophora dispersa</i>	Cytotoxic	16

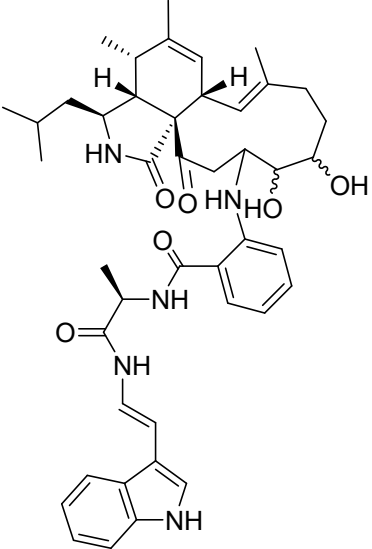
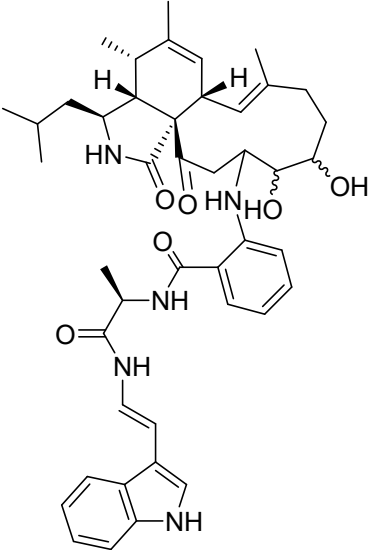
44	 <p style="text-align: center;"> <math>C_{25}H_{37}NO_4</math>  Pycnidiophorone C </p>	<i>Pycnidiophora dispersa</i>	Cytotoxic	16
45	 <p style="text-align: center;"> <math>C_{27}H_{37}NO_5</math>  Pycnidiophorone D </p>	<i>Pycnidiophora dispersa</i>	Cytotoxic	16
46	 <p style="text-align: center;"> <math>C_{29}H_{37}NO_4</math>  Deoxaphomin B </p>	<i>Sparticola triseptate</i>	Cytotoxic, Antiproliferative, Protein inhibitor	8

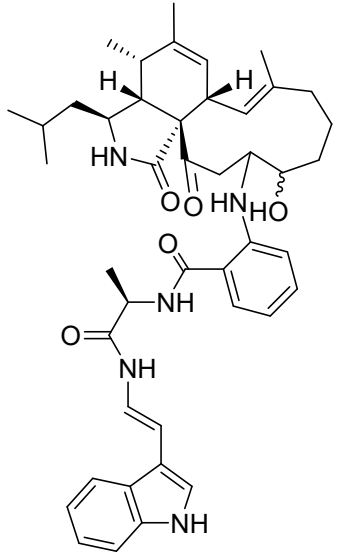


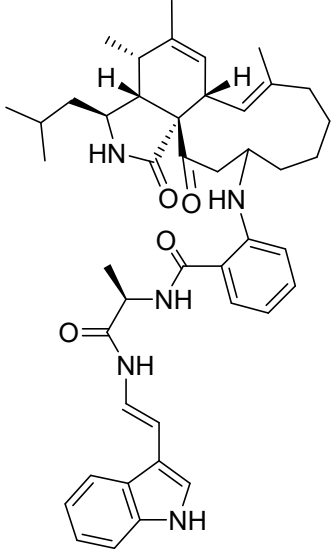
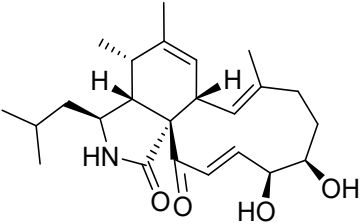
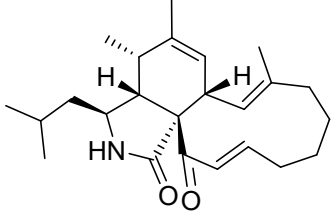
47	 <p>Chemical structure of Triseptatin, a complex polyketide derivative. It features a central ring system with a methyl group, a hydroxyl group, and a benzylamino group. A side chain contains a double bond, a methyl group, and an acetate ester. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{31}H_{39}NO_5</math> Triseptatin</p>	<i>Sparticola triseptate</i>	Cytotoxic, Antiproliferative, Protein inhibitor	8
48	 <p>Chemical structure of 18-Oxo-19,20-dihydrophomacin C. It consists of a bicyclic core with a methyl group, a hydroxyl group, and an isobutylamino group. A side chain includes a double bond, a methyl group, a ketone, and a hydroxyl group. Stereochemistry is shown with wedges and dashes.</p> <p><math>C_{25}H_{37}NO_4</math> 18-Oxo-19,20-dihydrophomacin C</p>	<i>Westerdykella dispersa</i>	Displayed no cytotoxicity and antibacterial	17
49	 <p>Chemical structure of 18-Oxo-19-methoxy-19,20-dihydrophomacin C. It is similar to the previous structure but includes a methoxy group on the side chain. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{26}H_{39}NO_5</math> 18-Oxo-19-methoxy-19,20-dihydrophomacin C</p>	<i>Westerdykella dispersa</i>	Displayed no cytotoxicity and antibacterial	17

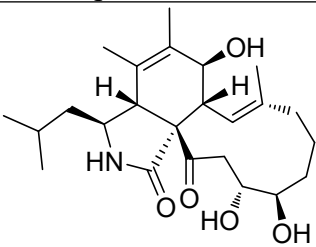
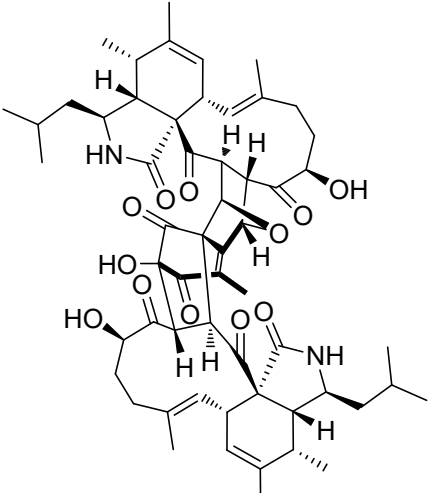
50	 <p style="text-align: center;"> <math>C_{25}H_{37}NO_5</math>            18-Oxo-19-hydroxyl-19,20-dihydrophomacin C         </p>	<i>Westerdykella dispersa</i>	Displayed no cytotoxicity and antibacterial	17
51	 <p style="text-align: center;"> <math>C_{25}H_{39}NO_4</math>            19,20-Dihydrophomacin C         </p>	<i>Westerdykella dispersa</i>	Displayed cytotoxicity and no antibacterial	17
52	 <p style="text-align: center;"> <math>C_{26}H_{41}NO_5</math>            19-Methoxy-19,20-dihydrophomacin C         </p>	<i>Westerdykella dispersa</i>	Displayed cytotoxicity and no antibacterial	17
53	 <p style="text-align: center;"> <math>C_{25}H_{39}NO_5</math> </p>	<i>Westerdykella dispersa</i> , <i>Westerdykella nigra</i>	Displayed cytotoxicity, enzyme inhibition effect and no antibacterial	17,18

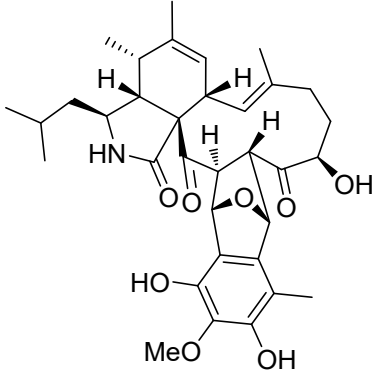
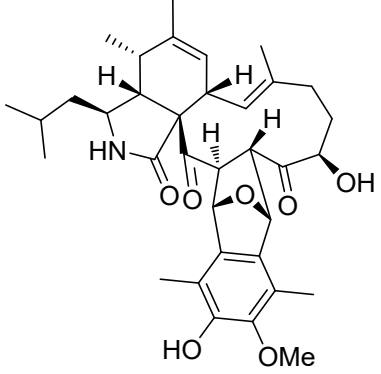
	19-Hydroxyl-19,20- dihydrophomacin C			
54	 <p>C<sub>25</sub>H<sub>37</sub>NO<sub>5</sub> Phomacin B</p>	<i>Westerdykella dispersa</i> , <i>Westerdykella nigra</i>	Displayed cytotoxicity, enzyme inhibition effect and no antibacterial	17,18
55	 <p>C<sub>25</sub>H<sub>37</sub>NO<sub>4</sub> 16-Hydroxymethylaspergillin PZ</p>	<i>Westerdykella dispersa</i> , <i>Westerdykella nigra</i>	Antibacterial and enzyme inhibition effect	18,19
56	 <p>C<sub>25</sub>H<sub>37</sub>NO<sub>4</sub> 16α-methylaspochalasin J</p>	<i>Westerdykella dispersa</i>	Antibacterial	19

57	 <p>The chemical structure of Aspochalamin A is a complex polycyclic molecule. It features a large macrocyclic core with multiple stereocenters, indicated by wedged and dashed bonds. Attached to this core are several side chains, including a branched alkyl chain, a hydroxyl group, and a chain containing an amide and a secondary amine. A prominent feature is a long chain ending in a tryptophan-like indole ring system, which is connected to the macrocycle via a double bond and an amide linkage.</p> <p><math>C_{44}H_{55}N_5O_6</math> Aspochalamin A</p>	<i>Aspergillus niveus</i> LU 9575	Cytotoxic, antibacterial	20,21
58	 <p>This is an identical copy of the chemical structure of Aspochalamin A, showing the same complex polycyclic core, side chains, and tryptophan-like indole moiety as described in entry 57.</p>	<i>Aspergillus niveus</i> LU 9575	Cytotoxic, antibacterial	20,21

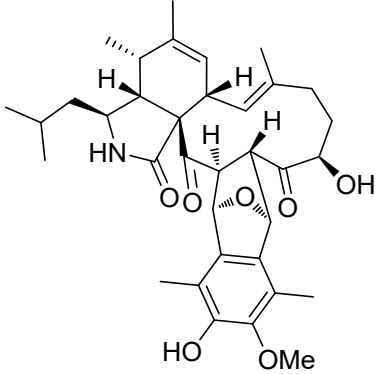
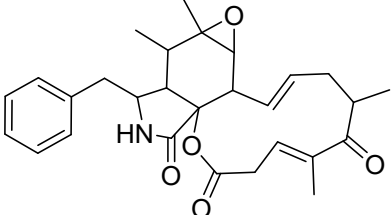
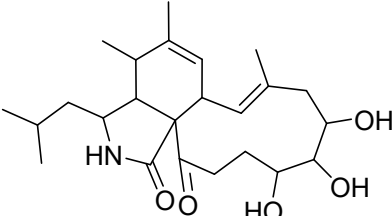
	$C_{44}H_{55}N_5O_6$ Aspochalamin B			
59	 $C_{44}H_{55}N_5O_5$ Aspochalamin C	<i>Aspergillus niveus</i> LU 9575	Cytotoxic, antibacterial	20,21

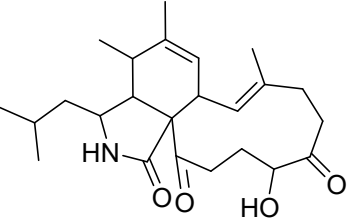
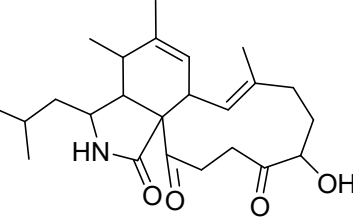
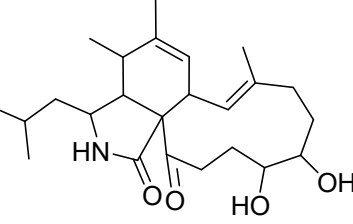
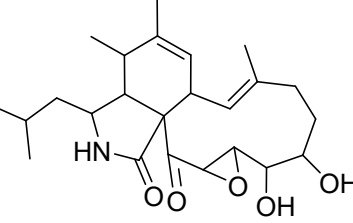
60	 <p>Chemical structure of Aspochalamin D, a complex polyketide with a decalin core, multiple amide and ester groups, and a long side chain. The structure is shown with stereochemistry indicated by wedges and dashes.</p> <p><math>C_{44}H_{55}N_5O_4</math> Aspochalamin D</p>	<i>Aspergillus niveus</i> LU 9575	Cytotoxic, antibacterial	20,21
61	 <p>Chemical structure of Aspochalasin D, a complex polyketide with a decalin core, multiple amide and ester groups, and a long side chain with two hydroxyl groups. The structure is shown with stereochemistry indicated by wedges and dashes.</p> <p><math>C_{24}H_{35}NO_4</math> Aspochalasin D</p>	<i>Aspergillus niveus</i> LU 9575, <i>Aspergillus micronesiensis</i> PG-1, <i>Trichoderma gamsii</i> , <i>Spicaria elegans</i> , <i>Aspergillus flavipes</i> (KIB-536)	Displayed cytotoxicity, and no antibacterial	20–27
62	 <p>Chemical structure of Aspochalamin D, a complex polyketide with a decalin core, multiple amide and ester groups, and a long side chain. The structure is shown with stereochemistry indicated by wedges and dashes.</p> <p><math>C_{24}H_{35}NO_2</math></p>	<i>Aspergillus niveus</i> LU 9575	Cytotoxic, antibacterial	20,21

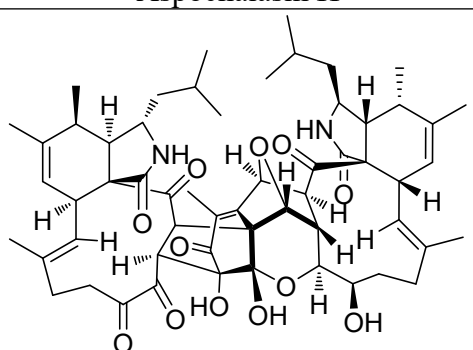
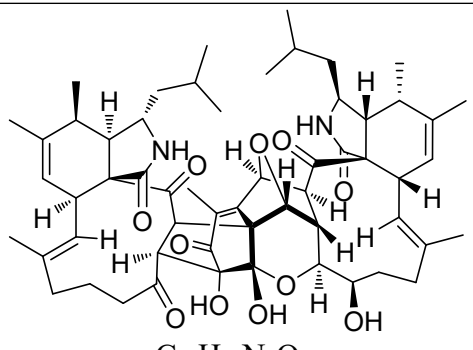
63	<p style="text-align: center;">Aspochalasin Z</p>  <p style="text-align: center;"><math>C_{24}H_{37}NO_5</math> Aspochalasin U</p>	<i>Aspergillus</i> sp	Cytotoxic	28
64	 <p style="text-align: center;"><math>C_{57}H_{72}N_2O_{12}</math> Asperchalasine A</p>	<i>Aspergillus flavipes</i> (507), <i>Aspergillus micronesiensis</i> PG-1	Cytotoxic	22,29

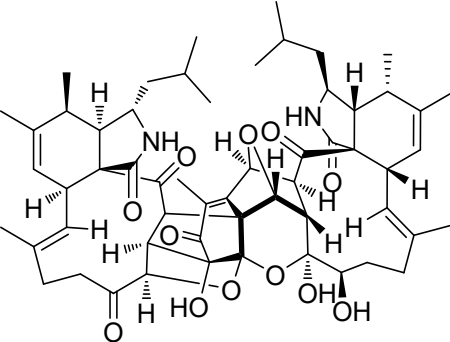
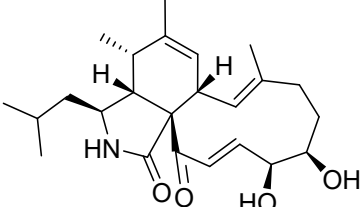
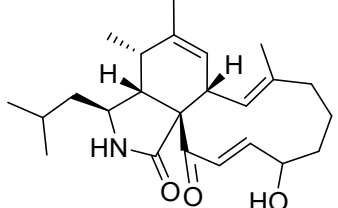
65	 <p> <math>C_{34}H_{43}NO_8</math>  Asperchalsine B </p>	<i>Aspergillus flavipes</i> (507)	Cytotoxic	29
66	 <p> <math>C_{35}H_{45}NO_7</math>  Asperchalsine C </p>	<i>Aspergillus flavipes</i> (507)	Cytotoxic	29

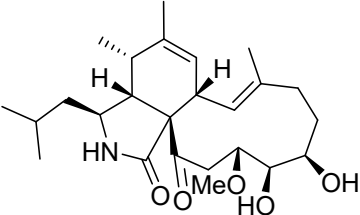
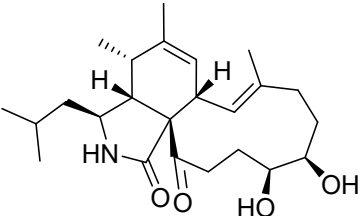
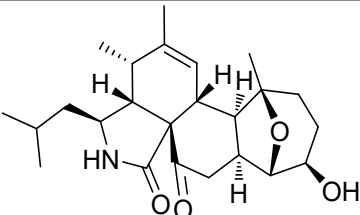
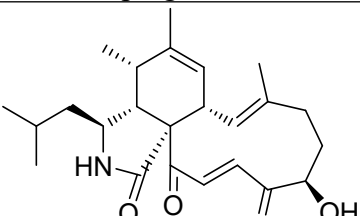


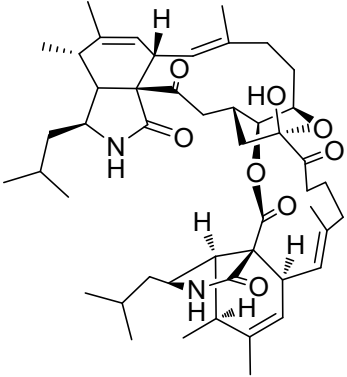
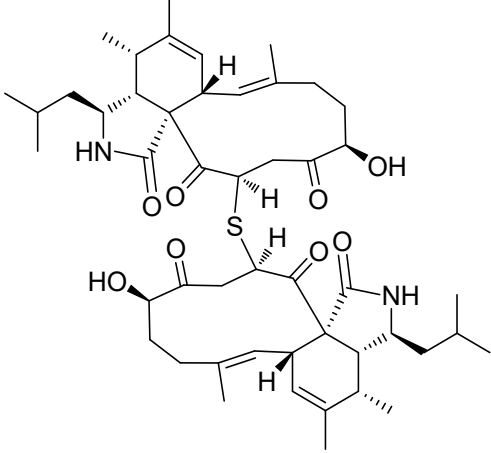
67	 <p>Chemical structure of Asperchalsine D, a complex polycyclic molecule with multiple stereocenters, a lactone ring, and a substituted benzene ring. The structure includes a decalin core with a lactone bridge, a methyl group, and a hydroxyl group. A side chain contains a secondary amine and a methyl group. The benzene ring is substituted with a hydroxyl group and a methoxy group.</p> <p><math>C_{35}H_{45}NO_7</math> Asperchalsine D</p>	<i>Aspergillus flavipes</i> (507)	Cytotoxic	29
68	 <p>Chemical structure of Rosellichalasin, a complex polycyclic molecule featuring a decalin core, a lactone ring, and a side chain with a phenyl group and a methyl group. The structure includes a decalin core with a lactone bridge, a methyl group, and a hydroxyl group. A side chain contains a secondary amine and a methyl group. The benzene ring is substituted with a hydroxyl group and a methoxy group.</p> <p><math>C_{28}H_{33}NO_5</math> Rosellichalasin</p>	<i>Aspergillus flavipes</i> , <i>Arthrinium arundinis</i> ZSDS1-F3, <i>Arthrinium arundinis</i> DJ-13	Displayed neither cytotoxicity nor antituberculosis	30-32
69	 <p>Chemical structure of Aspochalasin E, a complex polycyclic molecule with multiple stereocenters, a lactone ring, and a side chain with a methyl group and a hydroxyl group. The structure includes a decalin core with a lactone bridge, a methyl group, and a hydroxyl group. A side chain contains a secondary amine and a methyl group. The benzene ring is substituted with a hydroxyl group and a methoxy group.</p> <p><math>C_{24}H_{37}NO_5</math> Aspochalasin E</p>	<i>Aspergillus flavipes</i> , <i>Aspergillus flavipes</i> CNL-338	Not determined for any relevant biological activity	30,33

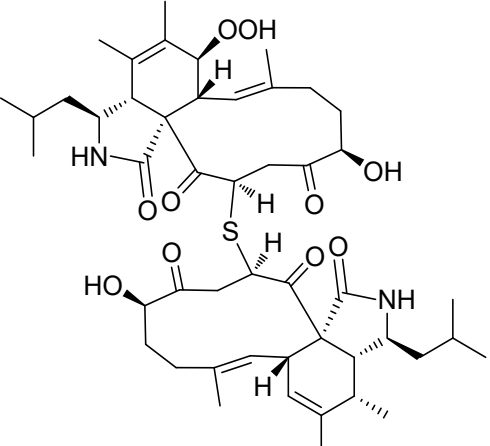
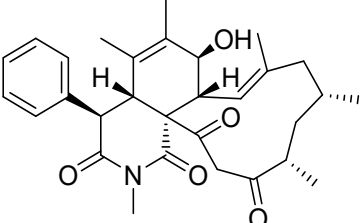
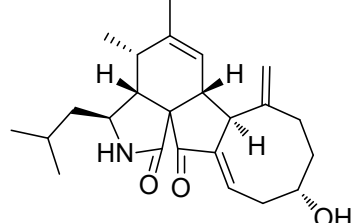
70	 <p style="text-align: center;"> <math>C_{24}H_{35}NO_4</math>  Aspochalasin M </p>	<i>Aspergillus flavipes</i> , <i>Aspergillus flavipes</i> CNL-338, <i>Trichoderma gamsii</i> , <i>Spicaria</i> <i>elegans</i>	Cytotoxicity	23,26,30,33
71	 <p style="text-align: center;"> <math>C_{24}H_{35}NO_4</math>  Aspochalasin P </p>	<i>Aspergillus flavipes</i> , <i>Trichoderma gamsii</i> , <i>Spicaria</i> <i>elegans</i>	Displayed no cytotoxicity	23,26,30
72	 <p style="text-align: center;"> <math>C_{24}H_{37}NO_4</math>  19,20-Dihydro-aspochalasin D </p>	<i>Aspergillus flavipes</i>	Not determined for any relevant biological activity	30
73	 <p style="text-align: center;"> <math>C_{24}H_{35}NO_5</math> </p>	<i>Aspergillus flavipes</i>	Not determined for any relevant biological activity	30

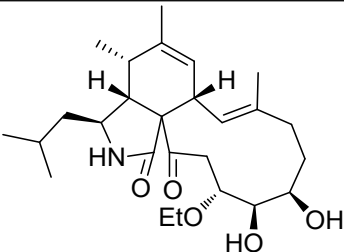
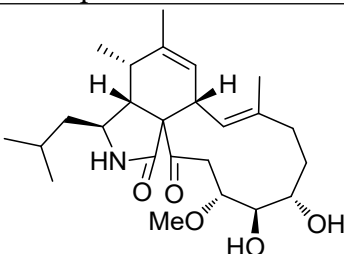
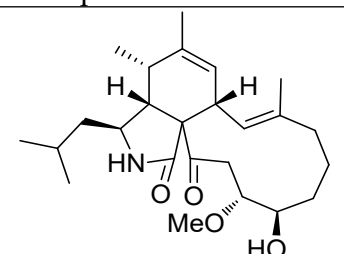
	Aspochalasin H			
74	 <p><math>C_{57}H_{72}N_2O_{12}</math> Amichalasin A</p>	<i>Aspergillus micronesiensis</i> PG-1	Cytotoxic	22
75	 <p><math>C_{57}H_{74}N_2O_{11}</math> Amichalasin B</p>	<i>Aspergillus micronesiensis</i> PG-1	Cytotoxic	22

76	 <p> <math>C_{57}H_{72}N_2O_{12}</math>  Asperchalasin C </p>	<i>Aspergillus micronesiensis</i> PG-1	Cytotoxic	22
77	 <p> <math>C_{24}H_{35}NO_4</math>  Aspochalasin C </p>	<i>Aspergillus flavipes</i> CNL-338	Not determined for any relevant biological activity	33
78	 <p> <math>C_{24}H_{35}NO_3</math>  TMC-169 </p>	<i>Aspergillus flavipes</i> CNL-338	Not determined for any relevant biological activity	33

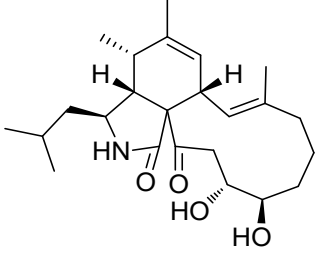
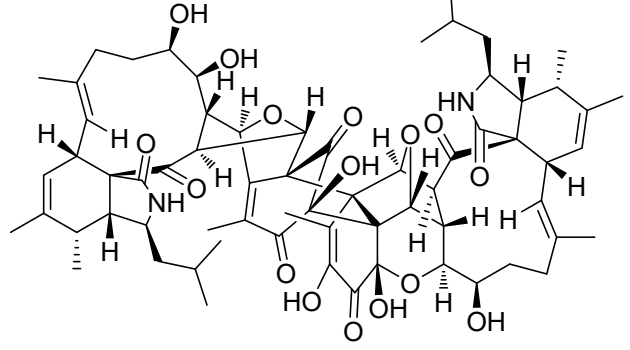
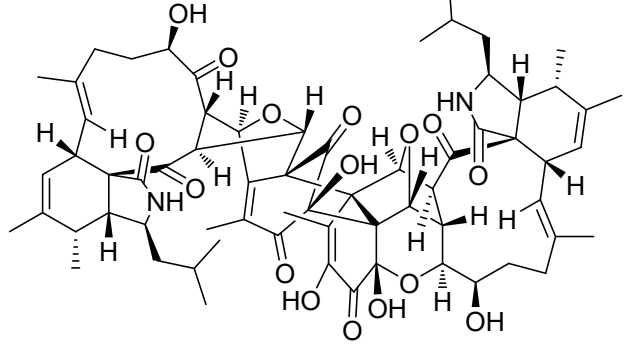
79	 <p>Chemical structure of Flavichalasin F, a complex polycyclic molecule with a decalin core, a methyl group, a methylamino group, a methoxy group, and two hydroxyl groups.</p> <p><math>C_{25}H_{39}NO_5</math> Flavichalasin F</p>	<i>Aspergillus flavipes</i> CNL-338	Not determined for any relevant biological activity	33
80	 <p>Chemical structure of Flavichalasin G, similar to Flavichalasin F but with a different side chain.</p> <p><math>C_{24}H_{37}NO_4</math> Flavichalasin G</p>	<i>Aspergillus flavipes</i> CNL-338	Not determined for any relevant biological activity	33
81	 <p>Chemical structure of Aspergillin PZ, a complex polycyclic molecule with a decalin core, a methyl group, a methylamino group, a hydroxyl group, and a cyclic ether ring.</p> <p><math>C_{24}H_{35}NO_4</math> Aspergillin PZ</p>	<i>Aspergillus flavipes</i> CNL-338, <i>Trichoderma gamsii</i>	Displayed no cytotoxicity	33,34
82	 <p>Chemical structure of Spicaria elegans, a complex polycyclic molecule with a decalin core, a methyl group, a methylamino group, a hydroxyl group, and a cyclic ether ring.</p> <p><math>C_{24}H_{33}NO_4</math></p>	<i>Spicaria elegans</i> , <i>Aspergillus flavipes</i> (KIB-536)	Cytotoxicity	26,27

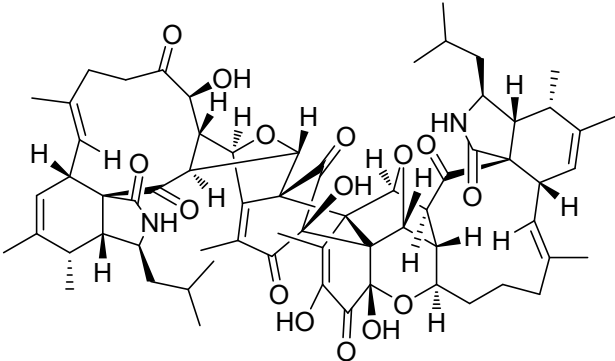
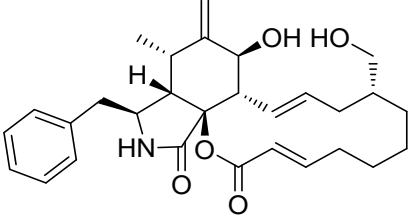
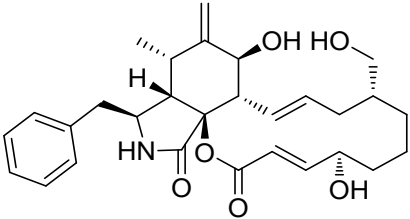
83	<p style="text-align: center;">Aspochalasin B</p>  <p style="text-align: center;"><math>C_{48}H_{68}N_2O_8</math> Bisaspochalasin A</p>	<i>Aspergillus flavipes</i> (KIB-536)	Displayed immunosuppressive effect	27
84	 <p style="text-align: center;"><math>C_{48}H_{68}N_2O_8S</math> Bisaspochalasin B</p>	<i>Aspergillus flavipes</i> (KIB-536)	Displayed no immunosuppressive effect	27

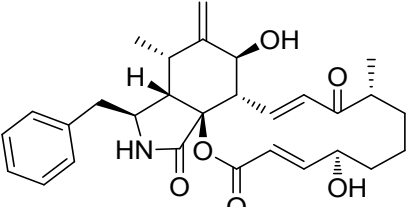
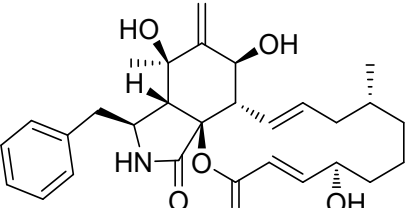
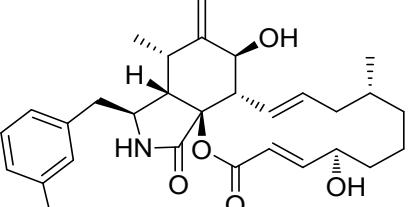
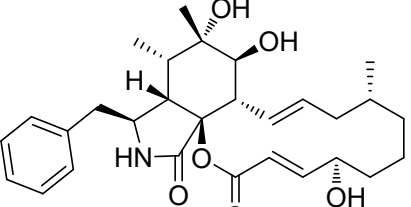
85	 <p style="text-align: center;"> <math>C_{48}H_{68}N_2O_{10}S</math>  Bisaspochalasin C </p>	<i>Aspergillus flavipes</i> (KIB-536)	Displayed no immunosuppressive effect	27
86	 <p style="text-align: center;"> <math>C_{30}H_{37}NO_5</math>  Asporychalasin </p>	<i>Aspergillus oryzae</i>	Cytotoxic	35
87	 <p style="text-align: center;"> <math>C_{24}H_{33}NO_3</math>  Aspermichalasin A </p>	<i>Aspergillus micronesiensis</i>	Displayed no cytotoxicity	36

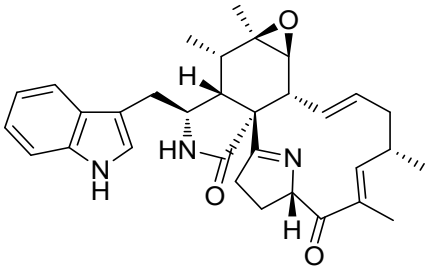
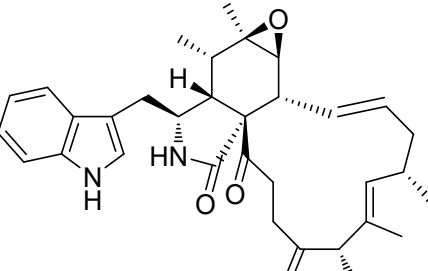
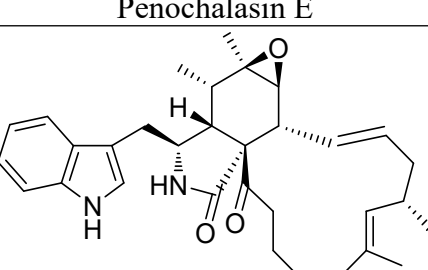
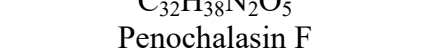
88	 <p> <math>C_{26}H_{41}NO_5</math>  Aspermichalasin B </p>	<i>Aspergillus micronesiensis</i>	Cytotoxic	36
89	 <p> <math>C_{25}H_{39}NO_5</math>  Aspermichalasin C </p>	<i>Aspergillus micronesiensis</i>	Cytotoxic	36
90	 <p> <math>C_{25}H_{39}NO_4</math>  Aspermichalasin D </p>	<i>Aspergillus micronesiensis</i>	Cytotoxic	36

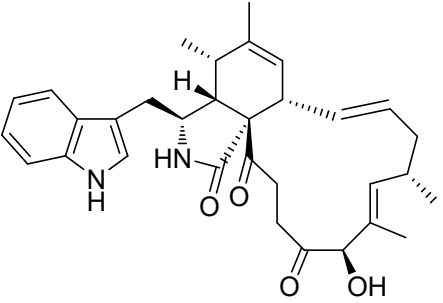
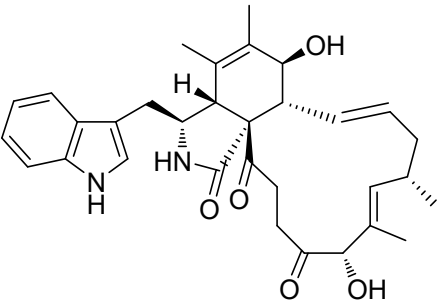
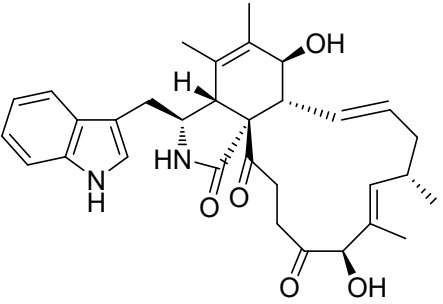


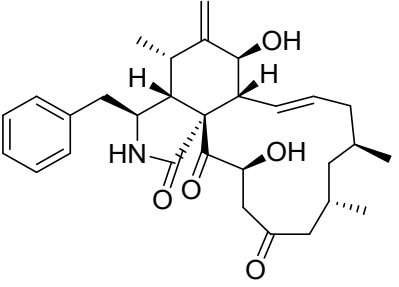
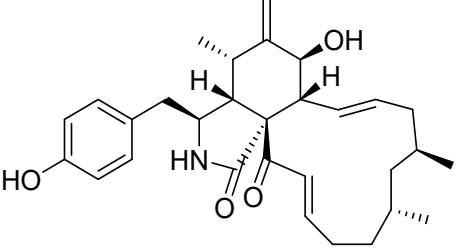
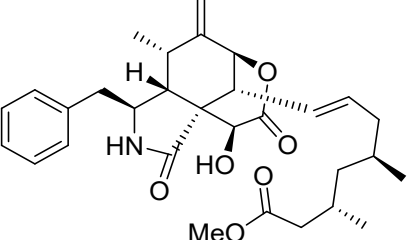
91	 <p style="text-align: center;"> <math>C_{24}H_{37}NO_4</math>  Aspermichalasin E </p>	<i>Aspergillus micronesiensis</i>	Cytotoxic	36
92	 <p style="text-align: center;"> <math>C_{66}H_{82}N_2O_{16}</math>  Asperflavipine C </p>	<i>Aspergillus micronesiensis</i>	Cytotoxic, apoptosis	36
93	 <p style="text-align: center;"> <math>C_{66}H_{80}N_2O_{16}</math> </p>	<i>Aspergillus micronesiensis</i>	Cytotoxic	36

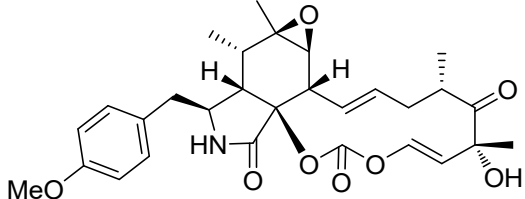
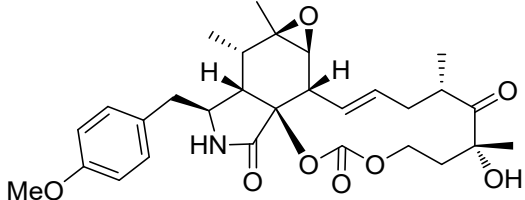
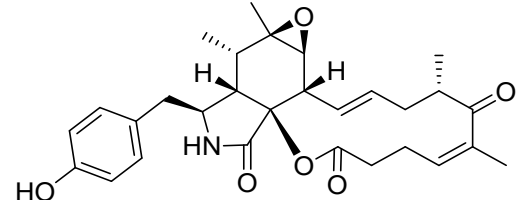
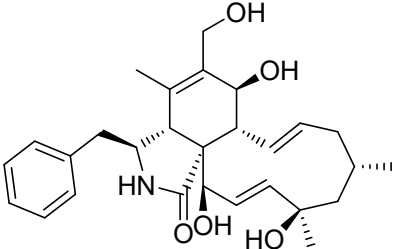
94	<p style="text-align: center;">Asperflavipine D</p>  <p style="text-align: center;"><math>C_{66}H_{80}N_2O_{15}</math> Asperflavipine E</p>	<i>Aspergillus micronesiensis</i>	Cytotoxic	36
95	 <p style="text-align: center;"><math>C_{29}H_{37}NO_5</math> Aspergicytochalasin A</p>	<i>Aspergillus</i> sp. LE2	Displayed anti-inflammatory and no antibacterial	1
96	 <p style="text-align: center;"><math>C_{29}H_{37}NO_6</math> Aspergicytochalasin B</p>	<i>Aspergillus</i> sp. LE2	Displayed no antibacterial and anti-inflammatory	1

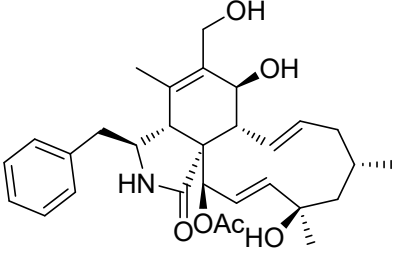
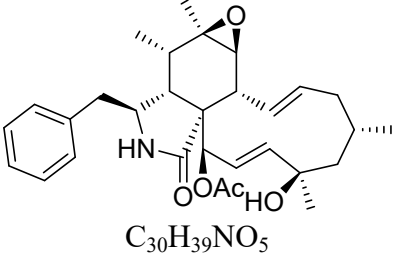
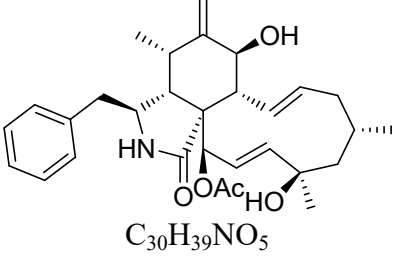
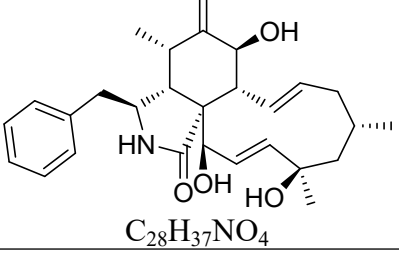
97	 <p style="text-align: center;">C<sub>29</sub>H<sub>35</sub>NO<sub>6</sub> Aspergicytochalasin C</p>	<i>Aspergillus</i> sp. LE2	Antibacterial, anti-inflammatory	1
98	 <p style="text-align: center;">C<sub>29</sub>H<sub>37</sub>NO<sub>6</sub> Aspergicytochalasin D</p>	<i>Aspergillus</i> sp. LE2	Displayed antibacterial and no anti-inflammatory	1
99	 <p style="text-align: center;">C<sub>29</sub>H<sub>37</sub>NO<sub>6</sub> Aspergicytochalasin E</p>	<i>Aspergillus</i> sp. LE2	Displayed anti-inflammatory no antibacterial	1
100		<i>Aspergillus</i> sp. LE2	Displayed anti-inflammatory and no antibacterial	1

	$C_{29}H_{39}NO_6$ Aspergicytochalasin F				
101	 <p>The structure shows a complex polycyclic molecule with a central bicyclic core, a fused indole ring system, and a long side chain containing a double bond and a hydroxyl group. Stereochemistry is indicated with wedges and dashes.</p>	<i>Penicillium</i> sp. OUPS-79	Cytotoxic	37	
102	$C_{32}H_{37}N_3O_3$ Penochalasin D	 <p>The structure is similar to Aspergicytochalasin F but features a different side chain configuration, including a hydroxyl group and a different arrangement of double bonds.</p>	<i>Penicillium</i> sp. OUPS-79	Cytotoxic	37
103	$C_{32}H_{38}N_2O_5$ Penochalasin E	 <p>The structure is similar to Penochalasin D but has a different side chain configuration, including a hydroxyl group and a different arrangement of double bonds.</p>	<i>Penicillium</i> sp. OUPS-79	Cytotoxic	37
	$C_{32}H_{38}N_2O_5$ Penochalasin F	 <p>The structure is identical to Penochalasin E.</p>	<i>Penicillium</i> sp. OUPS-79	Cytotoxic	37

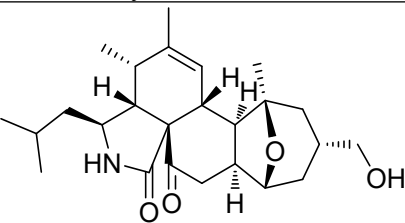
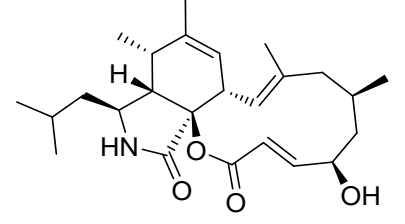
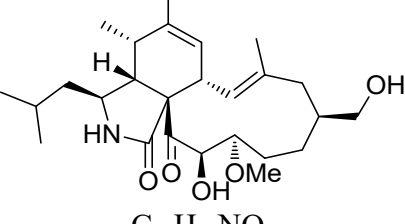
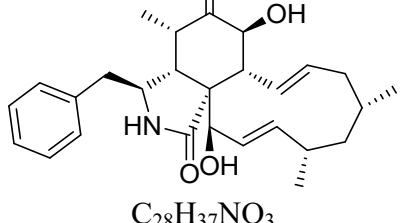
104	 <p>Chemical structure of Penochalasin G, a complex polyketide with a central bicyclic core, a tryptophan-derived side chain, and a long unsaturated side chain with a terminal hydroxyl group.</p> <p><math>C_{32}H_{38}N_2O_4</math> Penochalasin G</p>	<p><i>Penicillium</i> sp. OUPS-79, <i>Chaetomium globosum</i> C2F17, <i>Chaetomium</i> <i>globosum</i> kz-19</p>	<p>Displayed cytotoxicity and no anti-tuberculosis activity</p>	<p>37–39</p>
105	 <p>Chemical structure of Penochalasin H, similar to Penochalasin G but with an additional hydroxyl group on the central bicyclic core.</p> <p><math>C_{32}H_{38}N_2O_5</math> Penochalasin H</p>	<p><i>Penicillium</i> sp. OUPS-79</p>	<p>Cytotoxic</p>	<p>37</p>
106	 <p>Chemical structure of Chaetoglobosin O, similar to Penochalasin H but with a different side chain configuration.</p> <p><math>C_{32}H_{38}N_2O_5</math> Chaetoglobosin O</p>	<p><i>Penicillium</i> sp. OUPS-79</p>	<p>Cytotoxic</p>	<p>37</p>

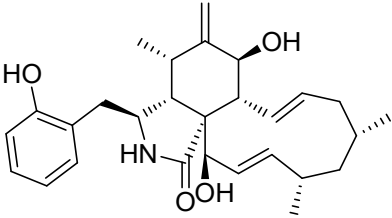
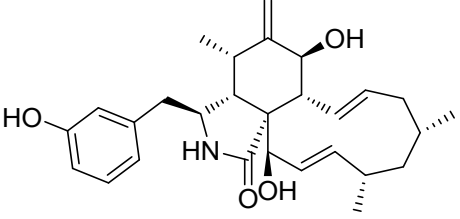
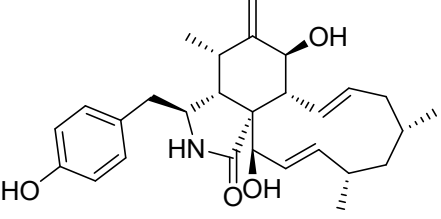
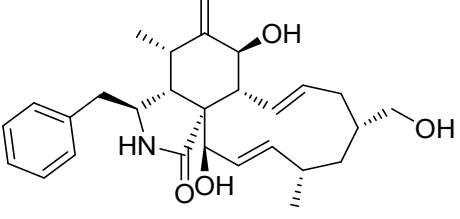
107	 <p>Chemical structure of Talachalasin A, a complex polycyclic molecule with a benzyl group, a hydroxyl group, and a methyl group. The structure is shown with stereochemistry (wedges and dashes).</p> <p><math>C_{30}H_{39}NO_5</math> Talachalasin A</p>	<p><i>Talaromyces muroii</i> sp. SCSIO 40439</p>	<p>Displayed cytotoxicity and no antiviral</p>	40
108	 <p>Chemical structure of Talachalasin B, similar to Talachalasin A but with a hydroxyl group on the benzyl ring. The structure is shown with stereochemistry (wedges and dashes).</p> <p><math>C_{30}H_{39}NO_4</math> Talachalasin B</p>	<p><i>Talaromyces muroii</i> sp. SCSIO 40439</p>	<p>Displayed cytotoxicity and antiviral</p>	40
109	 <p>Chemical structure of Talachalasin C, similar to Talachalasin A but with a methoxy group and a hydroxyl group on the benzyl ring. The structure is shown with stereochemistry (wedges and dashes).</p> <p><math>C_{30}H_{39}NO_6</math> Talachalasin C</p>	<p><i>Talaromyces muroii</i> sp. SCSIO 40439</p>	<p>Displayed neither cytotoxicity nor antiviral</p>	40

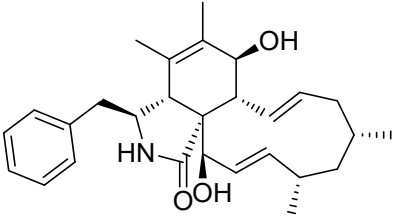
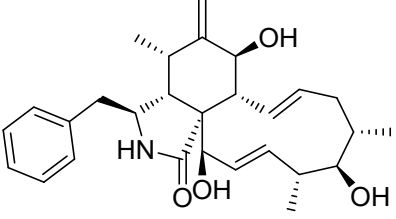
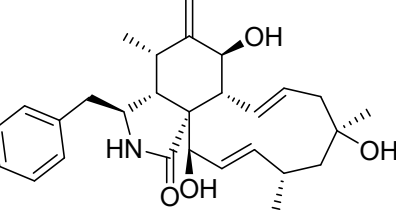
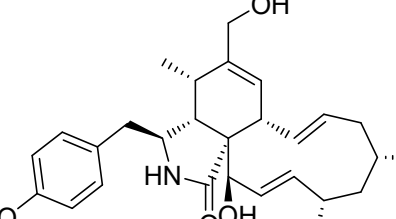
110	 <p> <math>C_{29}H_{35}NO_8</math>  Phenochalasin B </p>	<i>Botryotinia fuckeliana</i> A-S-3, <i>Daldinia concentrica</i>	Cytotoxic, apoptosis, nematicidal and antimicrobial	9,41,42
111	 <p> <math>C_{29}H_{37}NO_8</math>  [1,3]-Dioxacyclotridecino </p>	<i>Botryotinia fuckeliana</i> A-S-3	Displayed no cytotoxicity	41
112	 <p> <math>C_{29}H_{35}NO_6</math>  [12]-Cytochalasin </p>	<i>Botryotinia fuckeliana</i> A-S-3	Cytotoxic, Apoptosis	41
113	 <p> <math>C_{28}H_{37}NO_5</math>  Cytochalasin Z10 </p>	<i>Endothia gyrosa</i> IFB-E023	Cytotoxicity	43

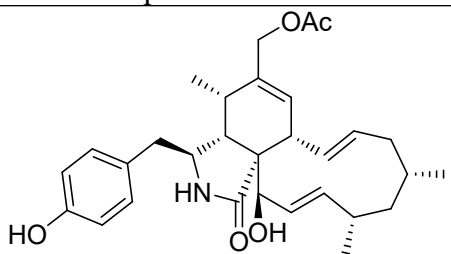
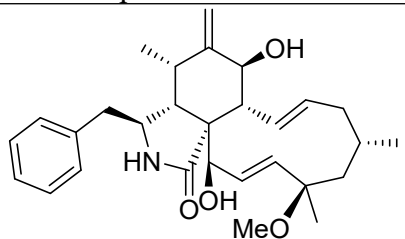
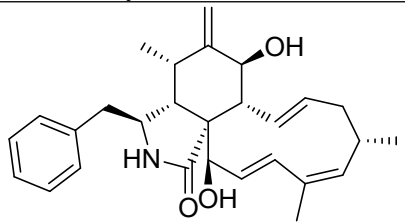
114	 <p style="text-align: center;">C<sub>30</sub>H<sub>39</sub>NO<sub>6</sub> Cytochalasin Z11</p>	<i>Endothia gyrosa</i> IFB-E023	Cytotoxicity	43
115	 <p style="text-align: center;">C<sub>30</sub>H<sub>39</sub>NO<sub>5</sub> Epoxyctochalasin H</p>	<i>Endothia gyrosa</i> IFB-E023, <i>Phomopsis</i> sp. xy22	Cytotoxicity	43,44
116	 <p style="text-align: center;">C<sub>30</sub>H<sub>39</sub>NO<sub>5</sub> Cytochalasin H</p>	<i>Endothia gyrosa</i> IFB-E023, <i>Diaporthe ueckerae</i> SC-J0123, <i>Diaporthe</i> cf. <i>ueckeri</i> , <i>Phomopsis</i> sp. xy22, <i>Phomopsis theicola</i> , <i>Phomopsis</i> sp. shj2, <i>Hypoxyton fragiforme</i> , H. <i>howeanum</i>	Cytotoxicity, antagonism, antimigratory, no anti- inflammatory effect, nematicidal, antimicrobial, and antibiofilm	9,43–49
117	 <p style="text-align: center;">C<sub>28</sub>H<sub>37</sub>NO<sub>4</sub></p>	<i>Endothia gyrosa</i> IFB-E023, <i>Diaporthe ueckerae</i> SC-J0123, <i>Diaporthe</i> cf. <i>ueckeri</i> , <i>Phomopsis</i> sp. shj2, <i>Phomopsis</i> sp. xy22	Cytotoxicity, nematicidal, and antimicrobial	9,43–46,50

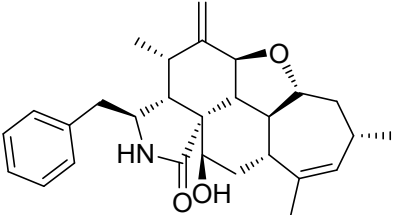
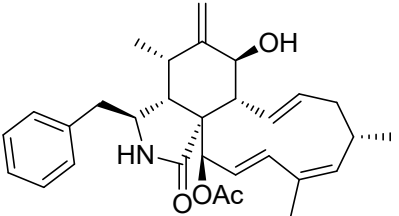
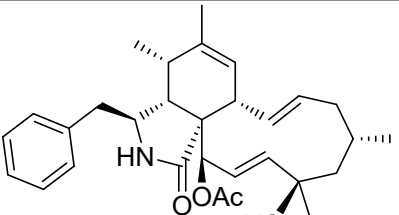
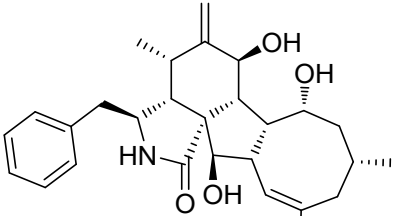


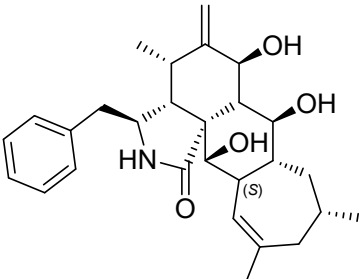
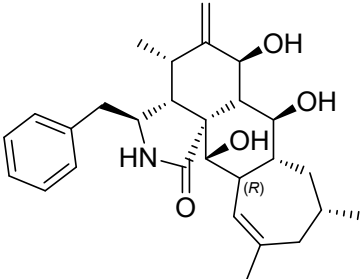
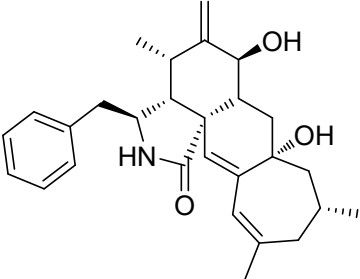
	Cytochalasin J			
118	 <p>C<sub>25</sub>H<sub>37</sub>NO<sub>4</sub> Cytochrysin A</p>	<i>Cytospora chrysosperma</i>	Displayed antibacterial and no antifungal activity	51
119	 <p>C<sub>25</sub>H<sub>37</sub>NO<sub>4</sub> Cytochrysin B</p>	<i>Cytospora chrysosperma</i>	Displayed no antibacterial and antifungal activity	51
120	 <p>C<sub>26</sub>H<sub>41</sub>NO<sub>5</sub> Cytochrysin C</p>	<i>Cytospora chrysosperma</i>	Displayed antibacterial and no antifungal activity	51
121	 <p>C<sub>28</sub>H<sub>37</sub>NO<sub>3</sub></p>	<i>Diaporthe</i> sp. SC-J0138, <i>Phomopsis</i> sp. xy21	Cytotoxicity	44,52

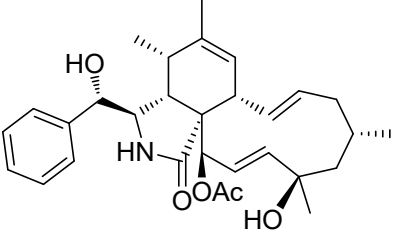
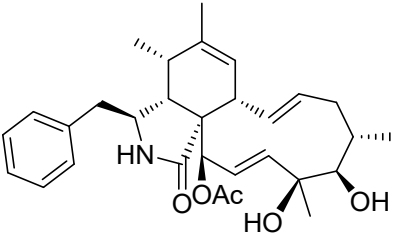
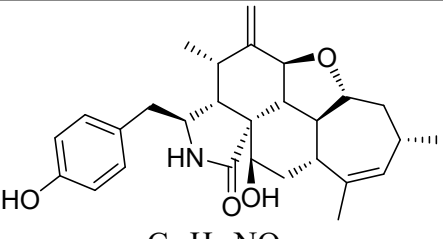
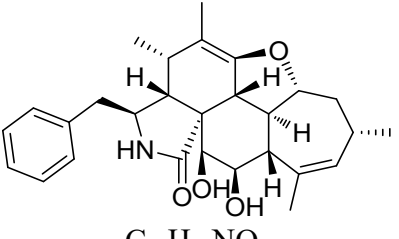
	21-O-deacetyl-L-696,474			
122	 <p>Chemical structure of Phomopsichalasin G, a complex polycyclic molecule with a central six-membered ring, a fused seven-membered ring, and a side chain containing a hydroxyl group and a hydroperoxide group. It features a benzylamino group at the 21-position.</p> <p><math>C_{28}H_{37}NO_4</math> Phomopsichalasin G</p>	<i>Diaporthe</i> sp. SC-J0138, <i>Phomopsis</i> sp. xy21	Cytotoxicity	44,52
123	 <p>Chemical structure of Diaporthichalasin A, similar to Phomopsichalasin G but with a para-hydroxybenzylamino group at the 21-position.</p> <p><math>C_{28}H_{37}NO_4</math> Diaporthichalasin A</p>	<i>Diaporthe</i> sp. SC-J0138, <i>Hypoxyylon fragiforme</i>	Cytotoxicity, antibacterial and antibiofilm	52,53
124	 <p>Chemical structure of Diaporthichalasin B, similar to Phomopsichalasin G but with a para-hydroxybenzylamino group at the 21-position.</p> <p><math>C_{28}H_{37}NO_4</math> Diaporthichalasin B</p>	<i>Diaporthe</i> sp. SC-J0138, <i>Phomopsis</i> sp. xy21	Cytotoxicity	44,52
125	 <p>Chemical structure of 21-O-deacetyl-L-696,474, similar to Phomopsichalasin G but with a phenylmethylamino group at the 21-position and a hydroxyl group on the seven-membered ring.</p> <p><math>C_{28}H_{37}NO_4</math></p>	<i>Diaporthe</i> sp. SC-J0138	Cytotoxicity	52

	Diaporthichalasin C			
126	 <p><math>C_{28}H_{37}NO_3</math> Diaporthichalasin C</p>	<i>Diaporthe</i> sp. SC-J0138	Cytotoxicity	52
127	 <p><math>C_{28}H_{37}NO_4</math> Diaporthichalasin D</p>	<i>Diaporthe</i> sp. SC-J0138	Cytotoxicity	52
128	 <p><math>C_{28}H_{37}NO_4</math> Diaporthichalasin E</p>	<i>Diaporthe</i> sp. SC-J0138	Cytotoxicity	52
129	 <p><math>C_{28}H_{37}NO_4</math> Diaporthichalasin F</p>	<i>Diaporthe</i> sp. SC-J0138	Displayed no cytotoxicity	52

	$C_{28}H_{37}NO_4$ Diaporthichalasin G			
130	 $C_{30}H_{39}NO_5$ Diaporthichalasin H	<i>Diaporthe</i> sp. SC-J0138	Cytotoxicity	52
131	 $C_{29}H_{39}NO_4$ Cytochalasin J <sub>1</sub>	<i>Diaporthe ueckerae</i> SC-J0123, <i>Phomopsis</i> sp. shj2	Antimigratory	45,48
132	 $C_{28}H_{35}NO_3$ Cytochalasin J <sub>2</sub>	<i>Diaporthe ueckerae</i> SC-J0123	Was not determined for any relevant biological activity	45

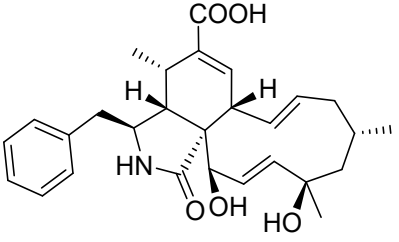
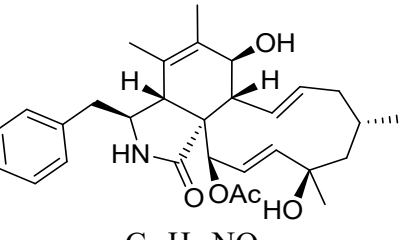
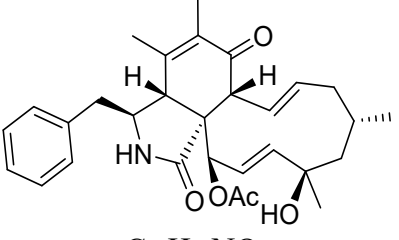
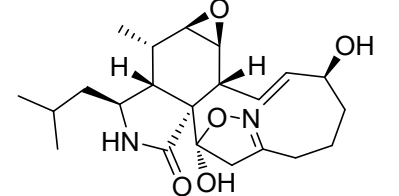
133	 <p> <math>C_{28}H_{35}NO_3</math>            Cytochalasin J<sub>3</sub> </p>	<i>Diaporthe ueckerae</i> SC-J0123	Displayed no antibacterial	45
134	 <p> <math>C_{30}H_{37}NO_4</math>            Longichalasin B         </p>	<i>Diaporthe ueckerae</i> SC-J0123	Displayed no antibacterial	45
135	 <p> <math>C_{30}H_{39}NO_4</math>            RKS-1778         </p>	<i>Diaporthe ueckerae</i> SC-J0123, <i>Phomopsis theicola</i> , <i>Phomopsis</i> sp. shj2	Displayed antimigratory and no antibacterial	45,47,48
136		<i>Diaporthe ueckerae</i> SC-J0123, <i>Phomopsis</i> sp. shj2	Antibacterial	45,50

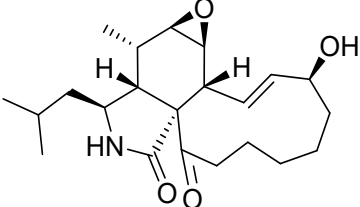
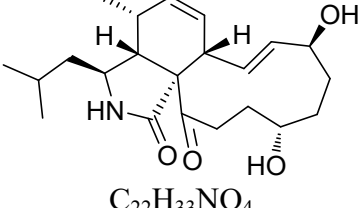
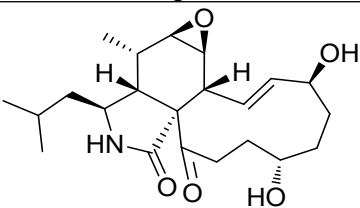
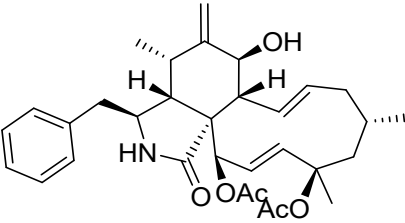
	$C_{28}H_{37}NO_4$ Phomopchalasin A			
137	 $C_{28}H_{37}NO_4$ Ueckerchalsin A	<i>Diaporthe ueckerae</i> SC-J0123	Displayed no antibacterial, cytotoxicity	45
138	 $C_{28}H_{37}NO_4$ Ueckerchalsin B	<i>Diaporthe ueckerae</i> SC-J0123	Displayed no antibacterial, cytotoxicity	45
139	 $C_{28}H_{35}NO_3$ Ueckerchalsin C	<i>Diaporthe ueckerae</i> SC-J0123	Antibacterial, cytotoxicity	45

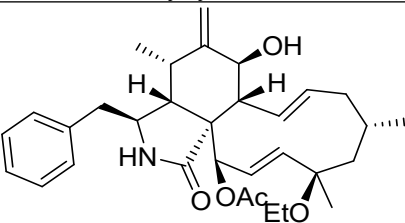
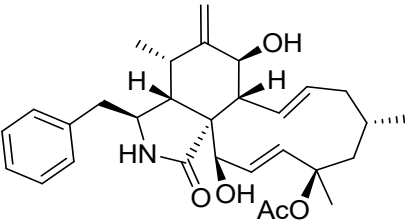
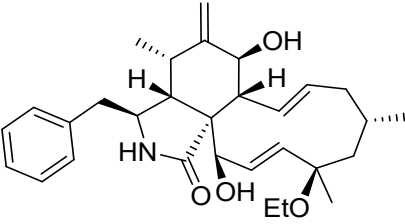
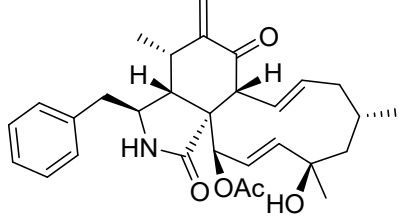
140	 <p>Ueckerchalsin D</p> $C_{30}H_{39}NO_5$	<i>Diaporthe ueckerae</i> SC-J0123	Displayed cytotoxicity and no antibacterial	45
141	 <p>Ueckerchalsin E</p> $C_{30}H_{39}NO_5$	<i>Diaporthe ueckerae</i> SC-J0123	Displayed cytotoxicity and no antibacterial	45
142	 <p>4'-hydroxycytochalsin J<sub>3</sub></p> $C_{28}H_{35}NO_4$	<i>Diaporthe ueckerae</i> SC-J0123	Displayed no antibacterial, cytotoxicity	45
143	 <p>Phomopsis sp. shj2</p> $C_{28}H_{35}NO_4$	<i>Phomopsis</i> sp. shj2	Antimigratory	50

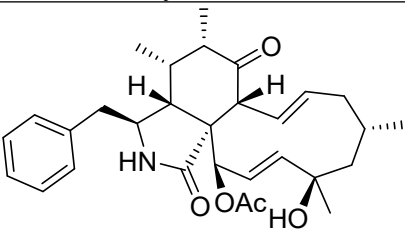
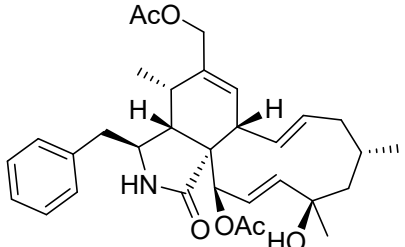
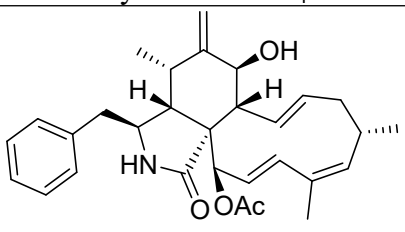
	Phomopchalasin B			
144	<p>Phomopchalasin B</p> $\text{C}_{30}\text{H}_{39}\text{NO}_6$ <p>Phomopchalasin C</p>	<i>Phomopsis</i> sp. shj2	Anti-inflammatory, cytotoxicity and antimigratory	50
145	<p>Phomopsichalasin F</p> $\text{C}_{28}\text{H}_{37}\text{NO}_3$	<i>Phomopsis</i> sp. xy21	Cytotoxicity	44
146	<p>18-Deoxycytochalasin H (7, L-696,474)</p> $\text{C}_{30}\text{H}_{39}\text{NO}_3$	<i>Phomopsis</i> sp. xy22	Cytotoxicity	44
147	<p>Phomopchalasin B</p> $\text{C}_{30}\text{H}_{39}\text{NO}_6$	<i>Phomopsis</i> sp. xy22	Displayed no cytotoxicity	44

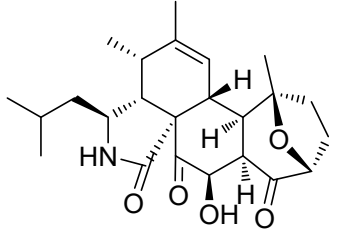
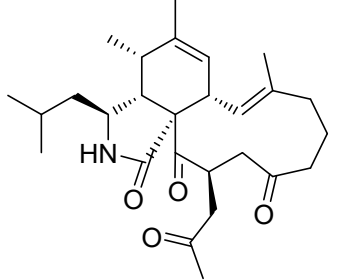
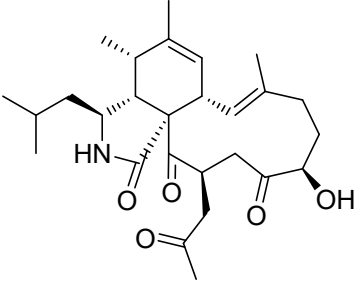


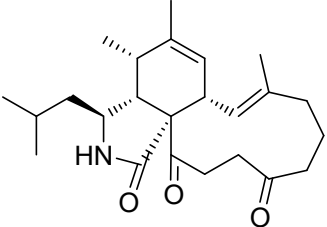
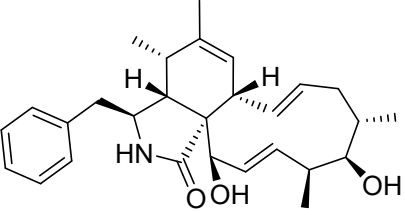
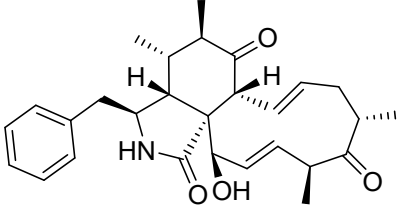
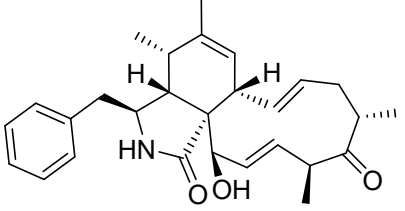
	Phomopsichalasin D			
148	 <p>COOH</p> <p>HN</p> <p>OOH</p> <p>HO</p> <p><math>C_{30}H_{39}NO_6</math></p> <p>Phomopsichalasin E</p>	<i>Phomopsis</i> sp. xy22	Cytotoxicity	44
149	 <p>HN</p> <p>OOAc</p> <p>HO</p> <p><math>C_{30}H_{39}NO_5</math></p> <p>Cytochalasin N</p>	<i>Phomopsis theicola</i>	Anti-inflammatory and no antagonism	47
150	 <p>HN</p> <p>OOAc</p> <p>HO</p> <p><math>C_{30}H_{37}NO_5</math></p> <p>Phomocytochalasin</p>	<i>Phomopsis theicola</i>	Displayed no anti-inflammatory and antagonism effect	47
151	 <p>HN</p> <p>OOH</p> <p>OH</p>	<i>Phomopsis</i> sp. sh917	Displayed no cytotoxicity and anti-inflammatory	54

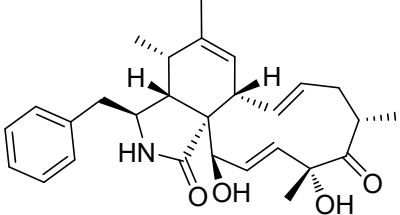
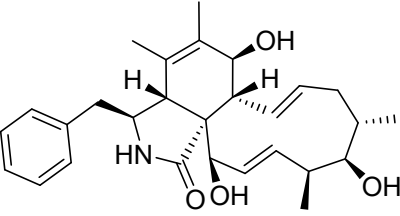
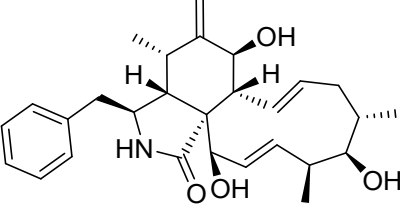
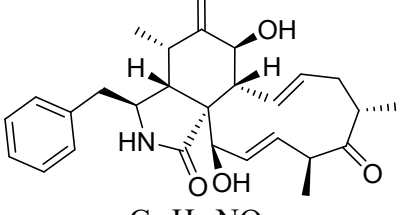
	$C_{22}H_{32}N_2O_5$ Phomopsisin A			
152	 $C_{22}H_{33}NO_4$ Phomopsisin B	<i>Phomopsis</i> sp. sh917	Displayed no cytotoxicity and anti-inflammatory	54
153	 $C_{22}H_{33}NO_4$ Phomopsisin C	<i>Phomopsis</i> sp. sh917	Displayed no cytotoxicity and showed anti-inflammatory activity	54
154	 $C_{22}H_{33}NO_5$ Xylarisin	<i>Phomopsis</i> sp. sh917	Displayed no cytotoxicity and anti-inflammatory	54
155	 $C_{32}H_{41}NO_6$	<i>Phomopsis</i> sp. shj2	Antimigratory	48

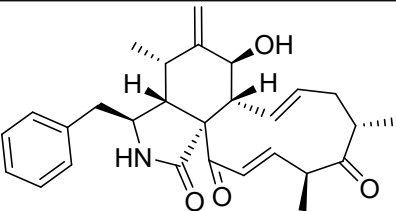
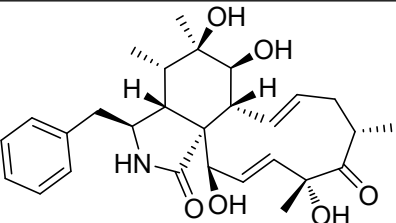
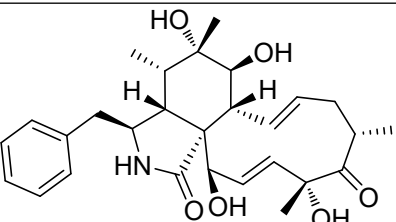
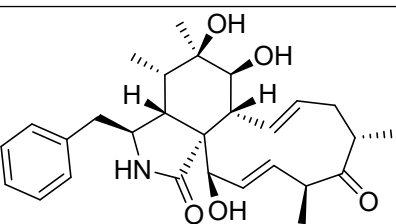
	18-Acetoxycytochalasin H			
156	 <p>Chemical structure of 18-Acetoxycytochalasin H, a complex polycyclic molecule with a benzylamino group, a hydroxyl group, and an acetoxy group at the 18-position.</p> <p><math>C_{32}H_{43}NO_5</math></p>	<i>Phomopsis</i> sp. shj2	Antimigratory	48
157	 <p>Chemical structure of 18-Ethoxycytochalasin H, similar to 18-Acetoxycytochalasin H but with an ethoxy group at the 18-position.</p> <p><math>C_{30}H_{39}NO_5</math></p>	<i>Phomopsis</i> sp. shj2	Antimigratory	48
158	 <p>Chemical structure of 18-Acetoxycytochalasin J, similar to 18-Acetoxycytochalasin H but with a hydroxyl group at the 18-position.</p> <p><math>C_{30}H_{41}NO_4</math></p>	<i>Phomopsis</i> sp. shj2	Not determined for any relevant biological activity	48
159	 <p>Chemical structure of 18-Ethoxycytochalasin J, similar to 18-Ethoxycytochalasin H but with a hydroxyl group at the 18-position.</p> <p><math>C_{30}H_{37}NO_5</math></p>	<i>Phomopsis</i> sp. shj2	Not determined for any relevant biological activity	48

	7-Oxocytochalasin H			
160	 <p>C<sub>30</sub>H<sub>39</sub>NO<sub>5</sub> Cytochalasin H<sub>3</sub></p>	<i>Phomopsis</i> sp. shj2	Not determined for any relevant biological activity	48
161	 <p>C<sub>32</sub>H<sub>42</sub>NO<sub>6</sub> Cytochalasin H<sub>4</sub></p>	<i>Phomopsis</i> sp. shj2	Displayed no antimigratory activity	48
162	 <p>C<sub>30</sub>H<sub>37</sub>NO<sub>4</sub> 21-Acetoxyctochalasin J<sub>2</sub></p>	<i>Phomopsis</i> sp. shj2	Antimigratory	48

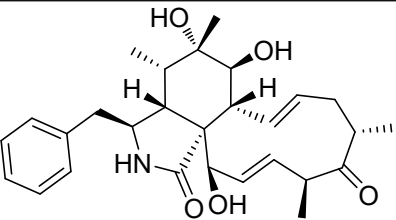
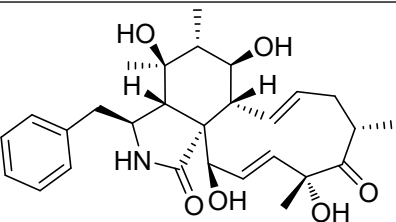
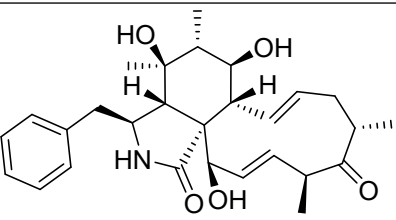
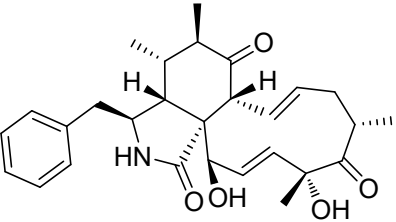
163	 <p> <math>C_{24}H_{33}NO_5</math>  Spicochalasin A </p>	<i>Spicaria elegans</i>	Cytotoxicity	26
164	 <p> <math>C_{27}H_{39}NO_4</math>  Aspochalasin N </p>	<i>Spicaria elegans</i>	Displayed no cytotoxicity	26
165	 <p> <math>C_{27}H_{39}NO_5</math>  Aspochalasin O </p>	<i>Spicaria elegans</i>	Displayed no cytotoxicity	26

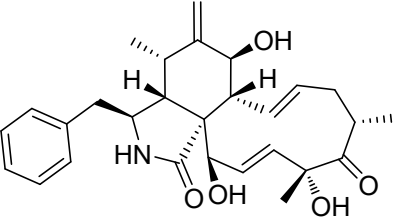
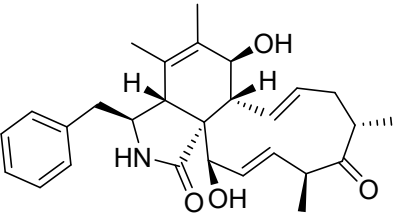
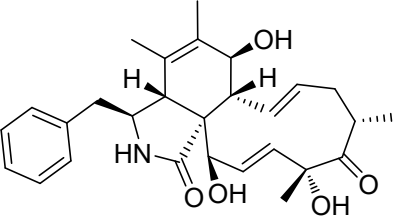
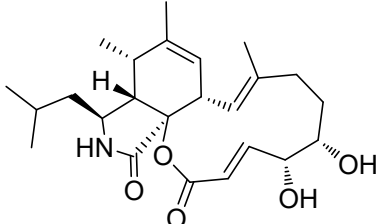
166	 <p> <math>C_{24}H_{35}NO_3</math>  Aspochalasin Q </p>	<i>Spicaria elegans</i>	Displayed no cytotoxicity	26
167	 <p> <math>C_{28}H_{37}NO_3</math>  Brunnesin A </p>	<i>Metarhizium brunneum</i> TBRC-BCC 79240	Displayed no antibacterial, antifungal and cytotoxicity	55
168	 <p> <math>C_{28}H_{35}NO_4</math>  Brunnesin B </p>	<i>Metarhizium brunneum</i> TBRC-BCC 79240	Displayed antibacterial, and no antifungal and cytotoxicity	55
169	 <p> <math>C_{28}H_{35}NO_3</math>  Brunnesin C </p>	<i>Metarhizium brunneum</i> TBRC-BCC 79240	Displayed antibacterial, and no antifungal and cytotoxicity	55

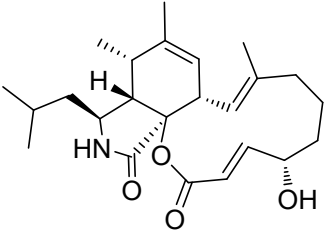
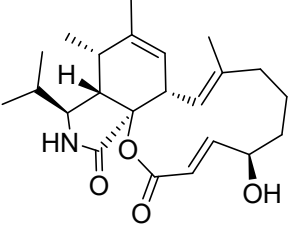
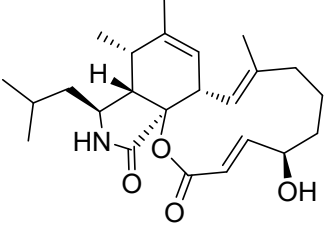
170	 <p> <math>C_{28}H_{35}NO_4</math>  Brunnesin D </p>	<p><i>Metarhizium brunneum</i> TBRC-BCC 79240</p>	<p>Displayed antibacterial, and cytotoxicity and no antifungal</p>	<p>55</p>
171	 <p> <math>C_{28}H_{37}NO_4</math>  Brunnesin E </p>	<p><i>Metarhizium brunneum</i> TBRC-BCC 79240</p>	<p>Displayed antibacterial, and no antifungal and cytotoxicity</p>	<p>55</p>
172	 <p> <math>C_{28}H_{37}NO_4</math>  Brunnesin F </p>	<p><i>Metarhizium brunneum</i> TBRC-BCC 79240</p>	<p>Displayed antibacterial, and cytotoxicity and no antifungal</p>	<p>55</p>
173	 <p> <math>C_{28}H_{35}NO_4</math>  Brunnesin G </p>	<p><i>Metarhizium brunneum</i> TBRC-BCC 79240</p>	<p>Displayed antibacterial, and cytotoxicity and no antifungal</p>	<p>55</p>

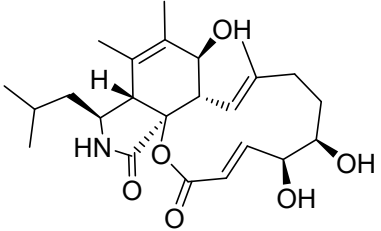
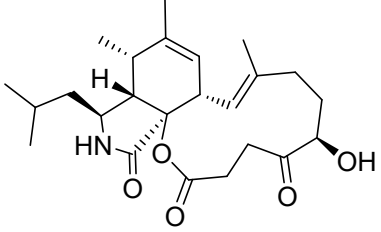
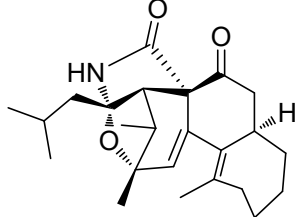
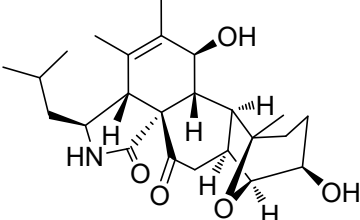
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176	 <p> <math>C_{28}H_{37}NO_6</math>  Brunnesin J </p>	<p> <i>Metarhizium brunneum</i>  TBRC-BCC 79240 </p>	<p> Displayed no  antibacterial, antifungal  and cytotoxicity </p>	<p>55</p>
177	 <p> <math>C_{28}H_{37}NO_5</math>  Brunnesin K </p>	<p> <i>Metarhizium brunneum</i>  TBRC-BCC 79240 </p>	<p> Displayed no  antibacterial, antifungal  and cytotoxicity </p>	<p>55</p>

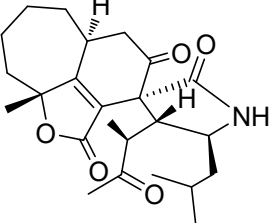
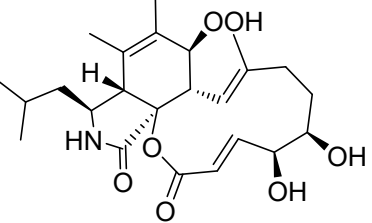
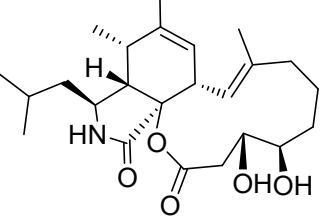


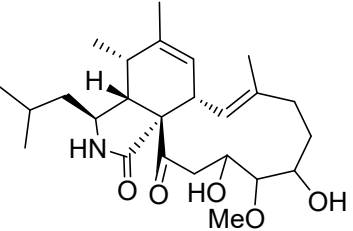
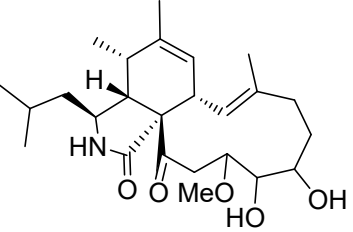
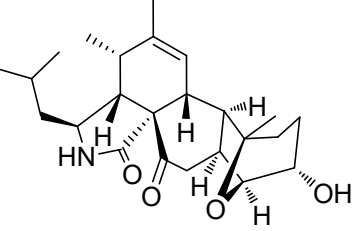
178	 <p> <math>C_{28}H_{37}NO_5</math>  Brunnesin L </p>	<p> <i>Metarhizium brunneum</i>  TBRC-BCC 79240 </p>	<p> Displayed cytotoxicity  and no antibacterial, and  antifungal </p>	<p>55</p>
179	 <p> <math>C_{28}H_{37}NO_6</math>  Brunnesin M </p>	<p> <i>Metarhizium brunneum</i>  TBRC-BCC 79240 </p>	<p> Displayed cytotoxicity  and no antibacterial, and  antifungal </p>	<p>55</p>
180	 <p> <math>C_{28}H_{37}NO_5</math>  Brunnesin N </p>	<p> <i>Metarhizium brunneum</i>  TBRC-BCC 79240 </p>	<p> Displayed cytotoxicity  and no antibacterial, and  antifungal </p>	<p>55</p>
181	 <p> <math>C_{28}H_{35}NO_5</math>  6,7-Dihydro-7-oxo-deacetylcytochalasin C </p>	<p> <i>Metarhizium brunneum</i>  TBRC-BCC 79240, <i>Xylaria</i>  <i>longipes</i>, <i>Xylaria arbuscula</i>  GZS74 </p>	<p> Displayed antibacterial,  cytotoxicity and no  antifungal </p>	<p>55,56</p>

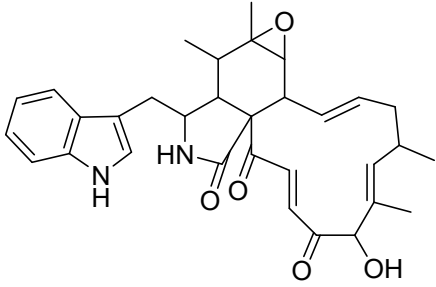
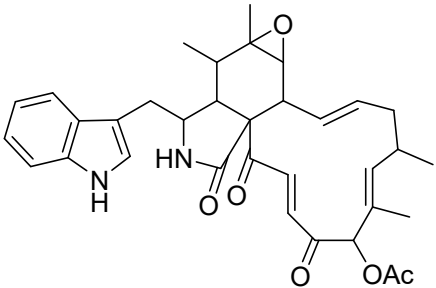
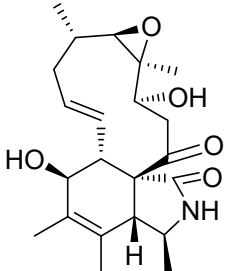
182	 <p> <math>C_{28}H_{35}NO_5</math>  Zygosporin D </p>	<p> <i>Metarhizium brunneum</i>  TBRC-BCC 79240, <i>Xylaria longipes</i>, <i>Xylaria arbuscula</i>  GZS74 </p>	<p> Displayed antibacterial,  cytotoxicity and no  antifungal </p>	<p>55,56</p>
183	 <p> <math>C_{28}H_{35}NO_4</math>  Deacetylcytochalasin C </p>	<p> <i>Metarhizium brunneum</i>  TBRC-BCC 79240, <i>Xylaria arbuscula</i>  GZS74 </p>	<p> Displayed antibacterial,  cytotoxicity and no  antifungal </p>	<p>55,57</p>
184	 <p> <math>C_{28}H_{35}NO_5</math>  18-Deshydroxyl-deacetylcytochalasin C </p>	<p> <i>Metarhizium brunneum</i>  TBRC-BCC 79240 </p>	<p> Displayed antibacterial,  and no antifungal and  cytotoxicity </p>	<p>55</p>
185	 <p> <math>C_{24}H_{35}NO_5</math> </p>	<p> <i>Trichoderma gamsii</i> </p>	<p> Displayed no  cytotoxicity </p>	<p>24,58</p>

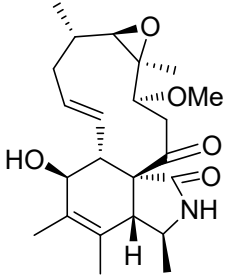
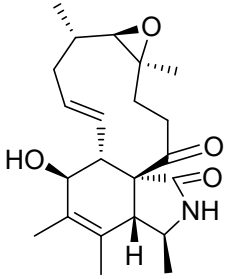
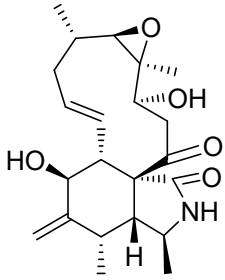
186	<p style="text-align: center;">Aspochalasin I</p>  <p style="text-align: center;"><math>C_{24}H_{35}NO_4</math> Aspochalasin J</p>	<i>Trichoderma gamsii</i>	Cytotoxic	24,58
187	 <p style="text-align: center;"><math>C_{23}H_{33}NO_4</math> Trichalasin A</p>	<i>Trichoderma gamsii</i>	Displayed no cytotoxicity	58
188	 <p style="text-align: center;"><math>C_{24}H_{35}NO_4</math> Trichalasin B</p>	<i>Trichoderma gamsii</i>	Displayed no cytotoxicity	58

189	 <p> <math>C_{24}H_{35}NO_6</math>  Trichalasin C </p>	<i>Trichoderma gamsii</i>	Displayed no cytotoxicity	23,34
190	 <p> <math>C_{24}H_{35}NO_5</math>  Trichalasin D </p>	<i>Trichoderma gamsii</i>	Displayed no cytotoxicity	23
191	 <p> <math>C_{24}H_{33}NO_3</math>  Trichoderone A </p>	<i>Trichoderma gamsii</i>	Displayed no cytotoxicity	24
192		<i>Trichoderma gamsii</i>	Displayed no cytotoxicity	24

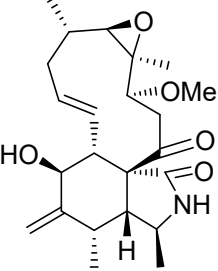
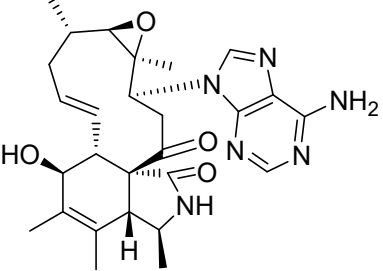
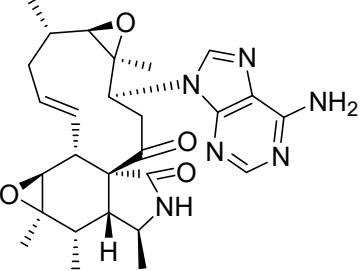
	$C_{24}H_{35}NO_5$ Trichoderone B			
193	 $C_{24}H_{33}NO_5$ Trichodermone	<i>Trichoderma gamsii</i>	Displayed no cytotoxicity	25
194	 $C_{24}H_{35}NO_7$ Trichalasin E	<i>Trichoderma gamsii</i>	Displayed no cytotoxicity	34
195	 $C_{24}H_{37}NO_5$ Trichalasin F	<i>Trichoderma gamsii</i>	Displayed no cytotoxicity	34

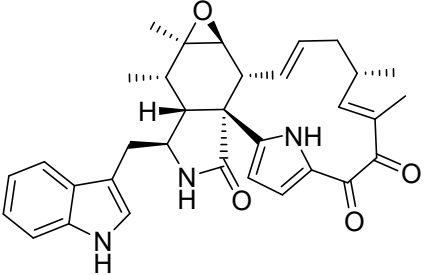
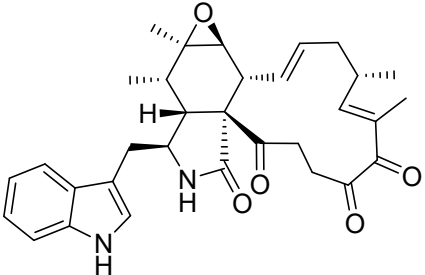
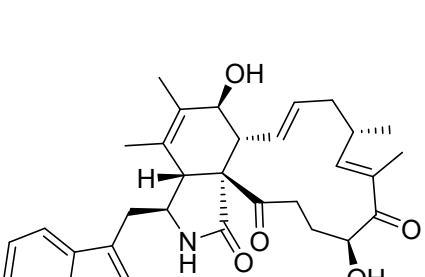
196	 <p> <math>C_{25}H_{39}NO_5</math>  Aspochalasin K </p>	<i>Trichoderma gamsii</i>	Displayed no cytotoxicity	34
197	 <p> <math>C_{25}H_{39}NO_5</math>  Trichalasin G </p>	<i>Trichoderma gamsii</i>	Cytotoxicity	34
198	 <p> <math>C_{24}H_{35}NO_4</math>  Trichalasin H </p>	<i>Trichoderma gamsii</i>	Displayed no cytotoxicity	34

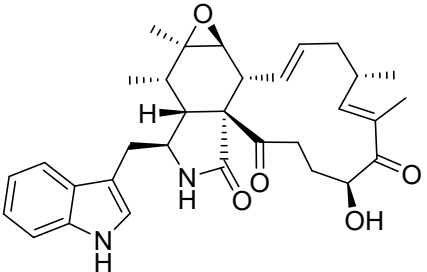
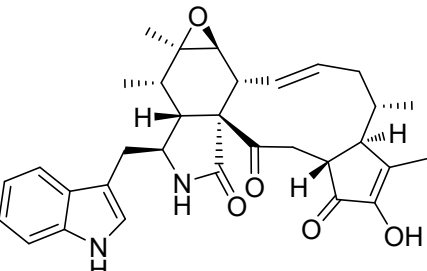
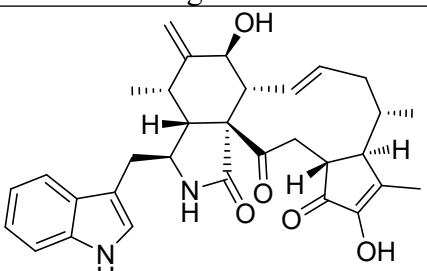
199	 <p><math>C_{32}H_{36}N_2O_5</math> Chaetoglobosin A</p>	<p><i>Calonectria morganii</i>, <i>Chaetomium globosum</i> TW1-1, <i>Chaetomium globosum</i> C2F17, <i>Chaetomium globosum</i> YE3048</p>	<p>Antibacterial, antifungal, nematicidal, and antimicrobial</p>	<p>9,38,59–62</p>
200	 <p><math>C_{34}H_{38}N_2O_6</math> 19-<i>O</i>-acetylchaetoglobosin A</p>	<p><i>Calonectria morganii</i></p>	<p>Not determined for any relevant biological activity</p>	<p>59</p>
201	 <p><math>C_{22}H_{31}NO_5</math> Alachalasin A</p>	<p><i>Stachybotrys charatum</i></p>	<p>Displayed no antimicrobial effect</p>	<p>63</p>

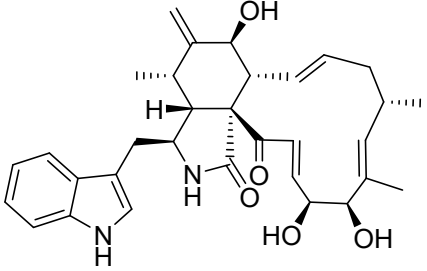
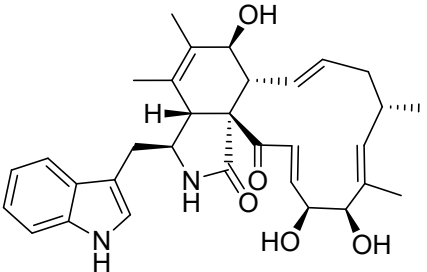
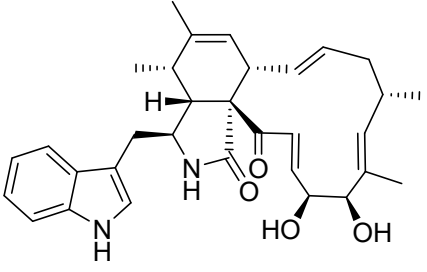
202	 <p>Chemical structure of Alachalasin B, a complex polycyclic molecule with a decalin core, a piperidine ring, and a decalin-like ring system. It features a hydroxyl group, a methyl group, and a methoxy group. The molecular formula is <math>C_{23}H_{33}NO_5</math>.</p> <p><math>C_{23}H_{33}NO_5</math> Alachalasin B</p>	<i>Stachybotrys charatum</i>	Displayed no antimicrobial effect	63
203	 <p>Chemical structure of Alachalasin C, similar to Alachalasin B but with a different side chain. The molecular formula is <math>C_{22}H_{31}NO_4</math>.</p> <p><math>C_{22}H_{31}NO_4</math> Alachalasin C</p>	<i>Stachybotrys charatum</i>	Displayed no antimicrobial effect	63
204	 <p>Chemical structure of Alachalasin D, similar to Alachalasin B but with a different side chain. The molecular formula is <math>C_{22}H_{31}NO_5</math>.</p> <p><math>C_{22}H_{31}NO_5</math> Alachalasin D</p>	<i>Stachybotrys charatum</i>	Antibacterial	63

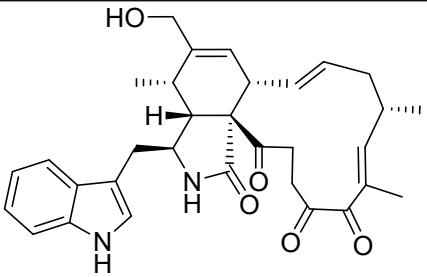
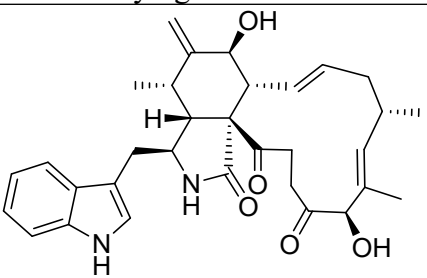
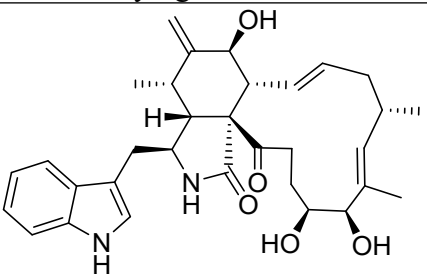


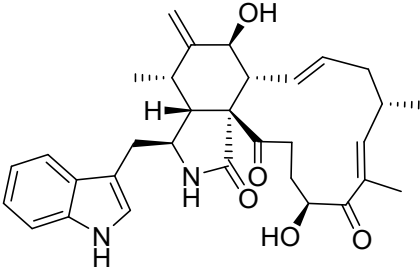
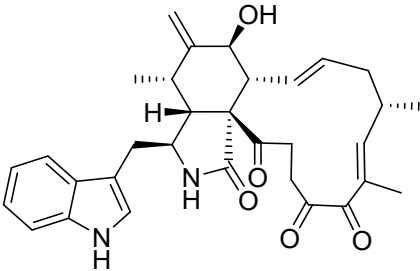
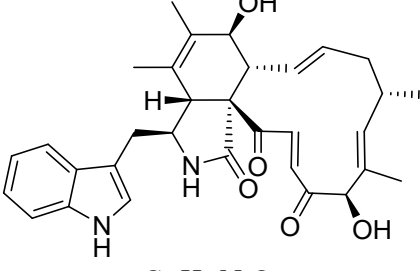
205	 <p>Chemical structure of Alachalasin E, a complex polycyclic molecule with a decalin core, a methyl group, a hydroxyl group, a methyl group, a hydrogen atom, an NH group, a carbonyl group, a methoxy group, and a long chain with a double bond and an oxygen atom.</p> <p><math>C_{23}H_{33}NO_5</math> Alachalasin E</p>	<i>Stachybotrys charatum</i>	Displayed no antimicrobial effect	63
206	 <p>Chemical structure of Alachalasin F, similar to Alachalasin E but with an additional amino group and a different ring fusion.</p> <p><math>C_{27}H_{34}N_6O_4</math> Alachalasin F</p>	<i>Stachybotrys charatum</i>	Displayed no antimicrobial effect	63
207	 <p>Chemical structure of Alachalasin G, similar to Alachalasin F but with an additional oxygen atom in the ring system.</p> <p><math>C_{27}H_{38}N_2O_6</math> Alachalasin G</p>	<i>Stachybotrys charatum</i>	Antibacterial	63

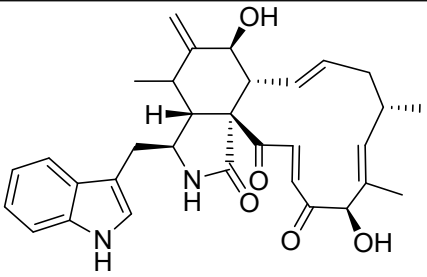
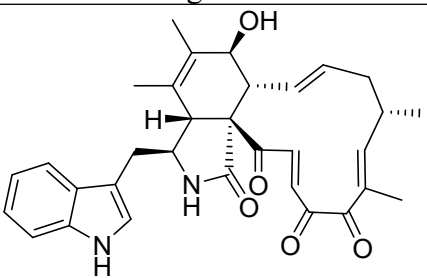
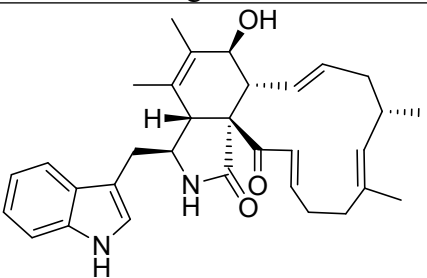
208	 <p style="text-align: center;"> <math>C_{33}H_{35}N_3O_4</math>            Penochalasin A         </p>	<p style="text-align: center;"><i>Chaetomium globosum</i> IFB-E019, <i>Chaetomium globosum</i> TW1-1</p>	<p style="text-align: center;">Cytotoxicity, antiviral</p>	<p style="text-align: center;">64,65</p>
209	 <p style="text-align: center;"> <math>C_{32}H_{36}N_2O_5</math>            Chaetoglobosin C         </p>	<p style="text-align: center;"><i>Chaetomium globosum</i> IFB-E019, <i>Chaetomium elatum</i> ChE01, <i>Chaetomium globosum</i>, <i>Chaetomium globosum</i> SNSHI-5, <i>Chaetomium globosum</i> TW1-1, <i>Chaetomium globosum</i> YE3048, <i>Chaetomium globosum</i> kz-19</p>	<p style="text-align: center;">Displayed cytotoxicity, phytotoxicity, antibacterial, antifungal, and no anti-tuberculosis activity</p>	<p style="text-align: center;">39,61,62,64,66–70</p>
210	 <p style="text-align: center;"> <math>C_{32}H_{38}N_2O_5</math>            Chaetoglobosin E         </p>	<p style="text-align: center;"><i>Chaetomium globosum</i> IFB-E019, <i>Chaetomium globosum</i>, <i>Chaetomium globosum</i> MCCC 3A00607, <i>Chaetomium globosum</i> SNSHI-5, <i>Chaetomium globosum</i> C2F17, <i>Chaetomium globosum</i> TY1, <i>Chaetomium globosum</i> D38, <i>Chaetomium globosum</i> YE3048, <i>Chaetomium globosum</i> YE3048, <i>Chaetomium globosum</i> kz-19, <i>Chaetomium</i></p>	<p style="text-align: center;">Displayed cytotoxicity, phytotoxicity, antibacterial, antifungal, no anti-tuberculosis, and no anti-inflammatory</p>	<p style="text-align: center;">38,39,62,64,67–69,71–75</p>

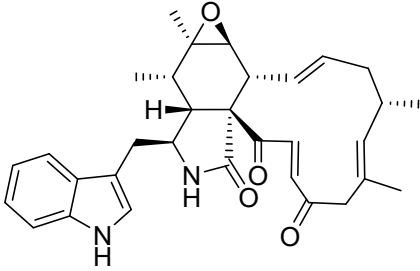
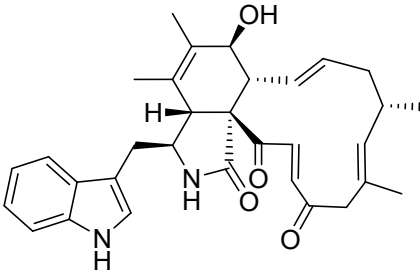
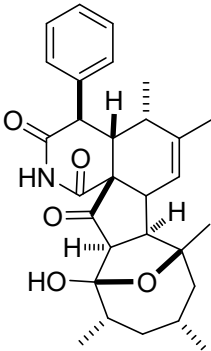
		<i>madrasense</i> 375, <i>Chaetomium tectifimeti</i> S104		
211	 <p><math>C_{32}H_{38}N_2O_5</math> Chaetoglobosin F</p>	<i>Chaetomium globosum</i> IFB-E019, <i>Chaetomium elatum</i> ChE01, <i>Chaetomium globosum</i> , <i>Chaetomium globosum</i> MCCC 3A00607, <i>Chaetomium globosum</i> TW1-1, <i>Chaetomium globosum</i> SNSHI-5, <i>Chaetomium globosum</i> C2F17	Displayed cytotoxicity and no anti-tuberculosis activity	38,64,66–69,71,76
212	 <p><math>C_{32}H_{36}N_2O_5</math> Chaetoglobosin U</p>	<i>Chaetomium globosum</i> IFB-E019, <i>Chaetomium globosum</i> TW1-1, <i>Chaetomium globosum</i> YE3048	Cytotoxicity, antibacterial, antifungal,	60,62,64,69,76
213	 <p><math>C_{32}H_{36}N_2O_5</math> Cytoglobosin A</p>	<i>Chaetomium globosum</i> QEN-14, <i>Chaetomium globosum</i> TW1-1, <i>Chaetomium globosum</i> SNSHI-5, <i>Chaetomium madrasense</i> 375	Displayed no cytotoxicity	68,69,74,76–78

214	 <p style="text-align: center;"> <math>C_{32}H_{38}N_2O_5</math>            Cytoglobosin B         </p>	<p style="text-align: center;"> <i>Chaetomium globosum</i> QEN-14,  <i>Chaetomium globosum</i> MCCC 3A00607,  <i>Chaetomium globosum</i> SNSHI-5         </p>	<p style="text-align: center;">Cytotoxicity</p>	<p style="text-align: center;">68,69,71,77</p>
215	 <p style="text-align: center;"> <math>C_{32}H_{38}N_2O_5</math>            Cytoglobosin C         </p>	<p style="text-align: center;"> <i>Chaetomium globosum</i> QEN-14,  <i>Chaetomium globosum</i> TW1-1,  <i>Chaetomium globosum</i> MCCC 3A00607,  <i>Chaetomium globosum</i> SNSHI-5,  <i>Chaetomium globosum</i> YE3048         </p>	<p style="text-align: center;">           Cytotoxicity,            antibacterial, antifungal,         </p>	<p style="text-align: center;">62,68,69,71,77,79</p>
216	 <p style="text-align: center;"> <math>C_{32}H_{38}N_2O_4</math>            Cytoglobosin D         </p>	<p style="text-align: center;"> <i>Chaetomium globosum</i> QEN-14         </p>	<p style="text-align: center;">Cytotoxicity</p>	<p style="text-align: center;">77</p>

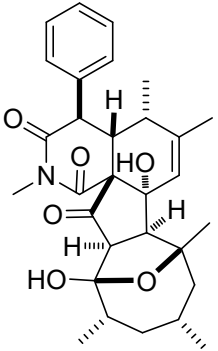
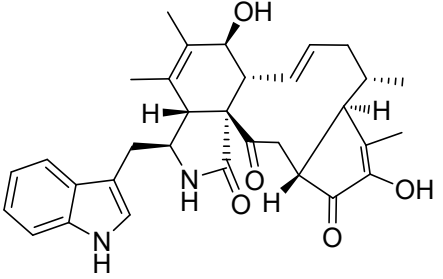
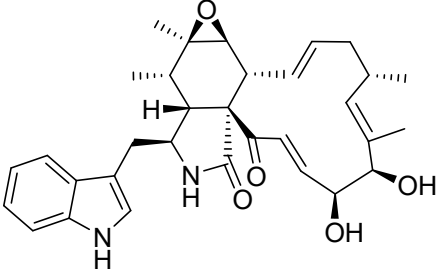
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218	 <p> <math>C_{32}H_{38}N_2O_5</math>  Cytoglobosin F </p>	<p> <i>Chaetomium globosum</i> QEN-14 </p>	<p> Not determined for any relevant biological activity </p>	<p>77</p>
219	 <p> <math>C_{32}H_{40}N_2O_5</math>  Cytoglobosin G </p>	<p> <i>Chaetomium globosum</i> QEN-14 </p>	<p> Displayed no cytotoxicity </p>	<p>77</p>

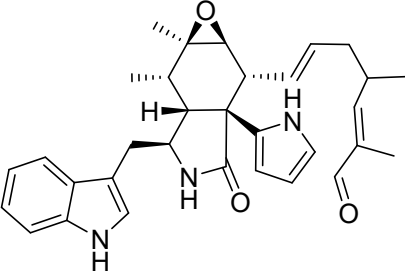
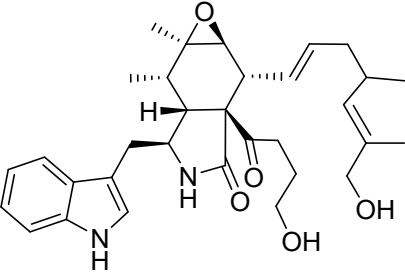
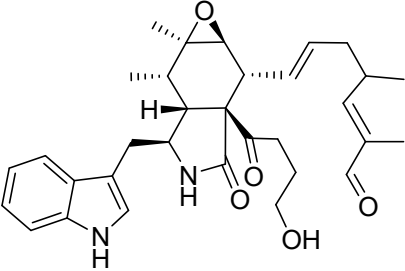
220	 <p style="text-align: center;"> <math>C_{32}H_{38}N_2O_5</math>            Chaetoglobosin F<sub>ex</sub> </p>	<p><i>Chaetomium globosum</i> QEN-14, <i>Chaetomium globosum</i>, <i>Chaetomium globosum</i> MCCC 3A00607, <i>Chaetomium globosum</i> SNSHI-5, <i>Chaetomium globosum</i> C2F17, <i>Chaetomium globosum</i> D38, <i>Chaetomium globosum</i> kz-19, <i>Chaetomium tectifimeti</i> S104</p>	<p>Displayed anti-inflammatory, phytotoxicity, cytotoxicity and no anti-tuberculosis activity, no antibacterial</p>	<p>38,39,67–69,71,73,75,77,80</p>
221	 <p style="text-align: center;"> <math>C_{32}H_{36}N_2O_5</math>            Isochaetoglobosin D         </p>	<p><i>Chaetomium globosum</i> QEN-14, <i>Chaetomium elatum</i> ChE01, <i>Chaetomium globosum</i> MCCC 3A00607, <i>Chaetomium globosum</i> SNSHI-5, <i>Chaetomium madrasense</i> 375, <i>Chaetomium globosum</i> C2F17, <i>Chaetomium globosum</i> kz-19, <i>Chaetomium tectifimeti</i> S104</p>	<p>Displayed cytotoxicity and no anti-tuberculosis activity, no antibacterial, no anti-inflammatory</p>	<p>38,39,66,68,69,71,75,77,78</p>
222	 <p style="text-align: center;"> <math>C_{32}H_{36}N_2O_5</math>            Chaetoglobosin B         </p>	<p><i>Chaetomium elatum</i> ChE01, <i>Chaetomium globosum</i> MCCC 3A00607, <i>Chaetomium globosum</i> C2F17, TY1, <i>Chaetomium madrasense</i> 375, <i>Chaetomium tectifimeti</i> S104</p>	<p>Displayed cytotoxicity and no anti-tuberculosis activity, no antibacterial, no anti-inflammatory</p>	<p>38,66,71,72,74,75</p>

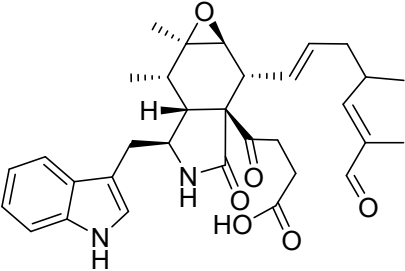
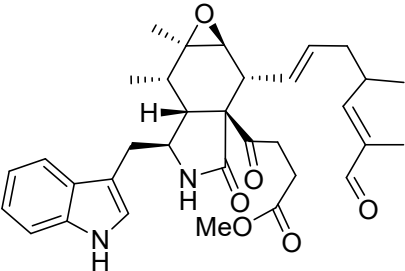
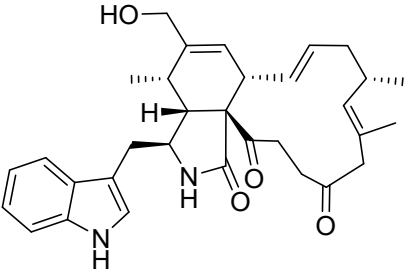
223	 <p style="text-align: center;"> <math>C_{32}H_{36}N_2O_5</math>            Chaetoglobosin D         </p>	<p style="text-align: center;"> <i>Chaetomium elatum</i> ChE01,  <i>Chaetomium globosum</i>            C2F17, <i>Chaetomium</i>  <i>globosum</i> kz-19, <i>Chaetomium</i>  <i>madrasense</i> 375, <i>Chaetomium</i>  <i>tectifimeti</i> S104         </p>	<p style="text-align: center;">           Displayed cytotoxicity            and no anti-tuberculosis            activity, no antibacterial,            no anti-inflammatory         </p>	<p style="text-align: center;">38,39,66,74,75</p>
224	 <p style="text-align: center;"> <math>C_{32}H_{34}N_2O_5</math>            Chaetoglobosin G         </p>	<p style="text-align: center;"> <i>Chaetomium elatum</i> ChE01,  <i>Chaetomium globosum</i>,  <i>Chaetomium globosum</i>            SNSHI-5, <i>Chaetomium</i>  <i>madrasense</i> 375, <i>Chaetomium</i>  <i>globosum</i> C2F17,  <i>Chaetomium globosum</i> kz-19,  <i>Chaetomium tectifimeti</i> S104         </p>	<p style="text-align: center;">           Displayed cytotoxicity,            antibacterial, antifungal,            cytotoxicity and no anti-            tuberculosis activity, no            anti-inflammatory         </p>	<p style="text-align: center;">38,39,66,68,69,75,78,81</p>
225	 <p style="text-align: center;"> <math>C_{32}H_{38}N_2O_3</math>            Chaetoglobosin V         </p>	<p style="text-align: center;"> <i>Chaetomium elatum</i> ChE01,  <i>Chaetomium globosum</i> TW1-            1, <i>Chaetomium globosum</i> kz-            19         </p>	<p style="text-align: center;">           Displayed cytotoxicity            and no antibacterial         </p>	<p style="text-align: center;">39,66,82</p>

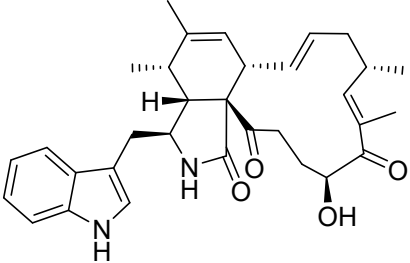
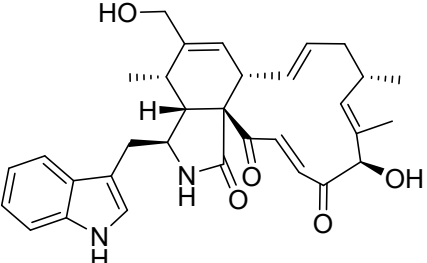
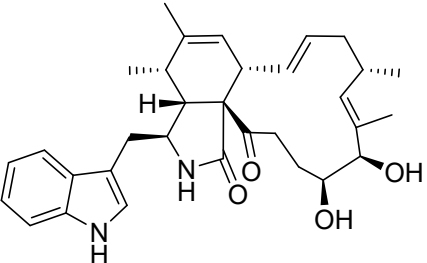
226	 <p>Chemical structure of Prochaetoglobosin III, a complex polycyclic molecule with a central bicyclic core, a phenyl ring, and a long side chain with multiple methyl groups and a terminal double bond. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{36}N_2O_4</math> Prochaetoglobosin III</p>	<i>Chaetomium elatum</i> ChE01	Cytotoxicity	66
227	 <p>Chemical structure of Prochaetoglobosin III<sub>ed</sub>, which is identical to Prochaetoglobosin III but includes an additional hydroxyl group (OH) on the side chain.</p> <p><math>C_{32}H_{36}N_2O_4</math> Prochaetoglobosin III<sub>ed</sub></p>	<i>Chaetomium elatum</i> ChE01	Cytotoxicity	66
228	 <p>Chemical structure of Chaetoconvosin A, a complex polycyclic molecule with a central bicyclic core, a phenyl ring, and a long side chain with multiple methyl groups and a terminal double bond. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{29}H_{35}NO_5</math> Chaetoconvosin A</p>	<i>Chaetomium convolutum</i>	Displayed no cytotoxicity	83

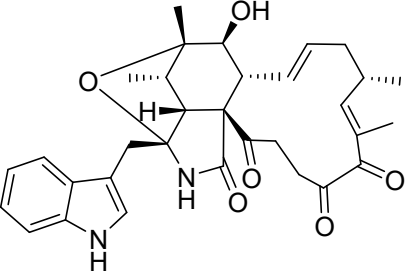
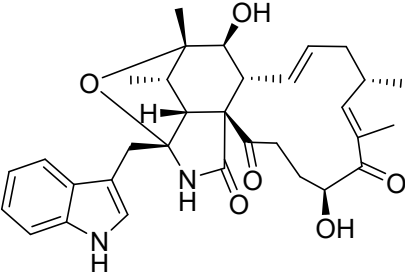
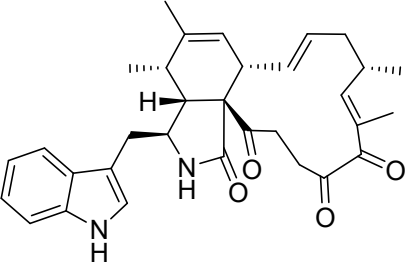


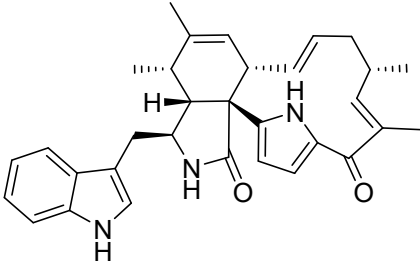
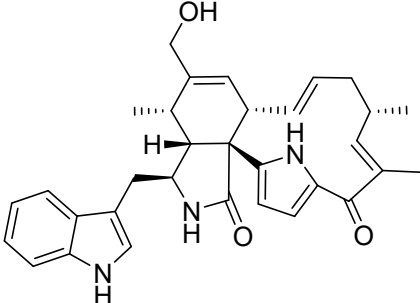
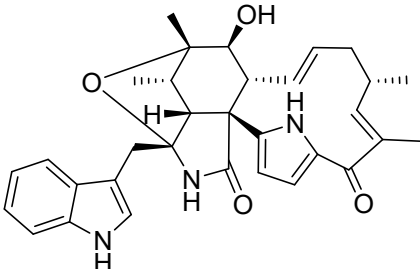
229	 <p style="text-align: center;"><math>C_{30}H_{37}NO_6</math> Chaetoconvosin B</p>	<i>Chaetomium convolutum</i>	Cytotoxicity, phytotoxicity	83
230	 <p style="text-align: center;"><math>C_{32}H_{36}N_2O_5</math> Chaetoglobosin V<sub>b</sub></p>	<i>Chaetomium globosum</i> , <i>Chaetomium globosum</i> SNSHI-5, <i>Chaetomium</i> <i>globosum</i> TW1-1, <i>Chaetomium madrasense</i> 375, <i>Chaetomium globosum</i> C2F17, <i>Chaetomium</i> <i>globosum</i> D38, <i>Chaetomium</i> <i>globosum</i> YE3048, <i>Chaetomium tectifimeti</i> S104	Displayed antibacterial antifungal, cytotoxicity and no anti-tuberculosis, no anti-inflammatory	38,62,68–70,73,75,78,81
231	 <p style="text-align: center;"><math>C_{32}H_{38}N_2O_5</math> 20-Dihydrochaetoglobosin A</p>	<i>Chaetomium globosum</i> , <i>Chaetomium globosum</i> TW1-1	Cytotoxicity	67,76

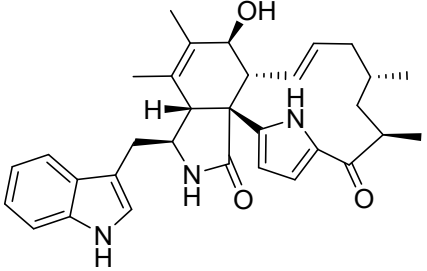
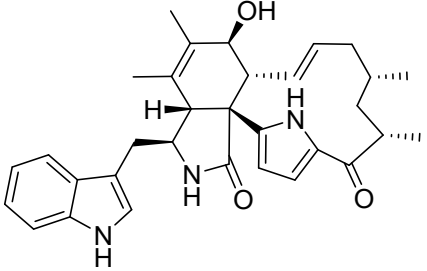
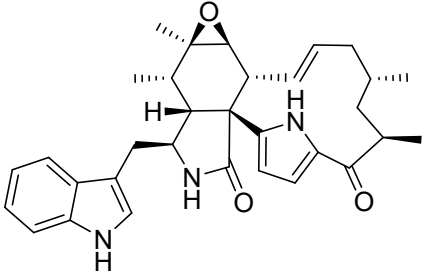
232	 <p>Chemical structure of Armochaetoglobin A, a complex polycyclic molecule featuring a central bicyclic core with a lactam ring, a benzimidazole-like ring system, and a side chain with a terminal methyl group and a double bond. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{37}N_3O_3</math> Armochaetoglobin A</p>	<i>Chaetomium globosum</i> TW1-1	Not determined for any relevant biological activity	79
233	 <p>Chemical structure of Armochaetoglobin B, similar to A but with a hydroxyl group on the side chain. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{42}N_2O_5</math> Armochaetoglobin B</p>	<i>Chaetomium globosum</i> TW1-1	Cytotoxicity	79
234	 <p>Chemical structure of Armochaetoglobin C, similar to B but with a different side chain. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{40}N_2O_5</math> Armochaetoglobin C</p>	<i>Chaetomium globosum</i> TW1-1	Cytotoxicity	79

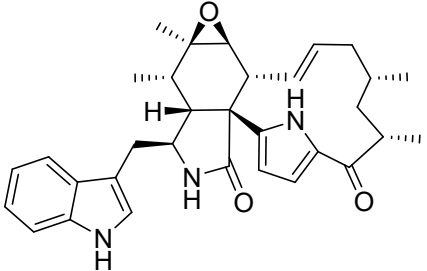
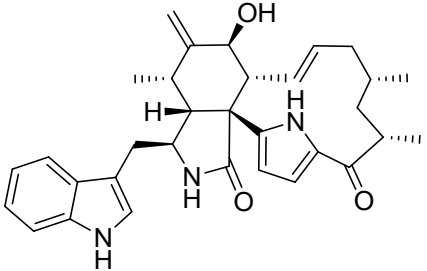
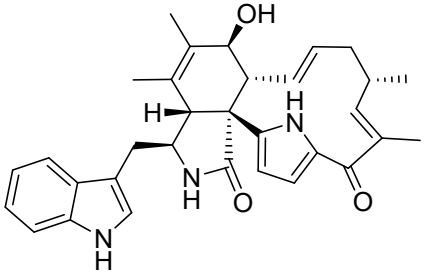
235	 <p>Chemical structure of Armochaetoglobin D, a complex polycyclic molecule featuring a central ring system with a hydroxyl group, a methyl group, and a side chain containing a tryptophan residue and a long unsaturated chain.</p> <p><math>C_{32}H_{38}N_2O_6</math> Armochaetoglobin D</p>	<i>Chaetomium globosum</i> TW1-1	Cytotoxicity	79
236	 <p>Chemical structure of Armochaetoglobin E, similar to D but with a methoxy group (MeO) instead of a hydroxyl group at the corresponding position.</p> <p><math>C_{33}H_{40}N_2O_6</math> Armochaetoglobin E</p>	<i>Chaetomium globosum</i> TW1-1	Cytotoxicity	79
237	 <p>Chemical structure of Armochaetoglobin F, featuring a hydroxyl group (HO) and a different side chain configuration compared to D and E.</p> <p><math>C_{32}H_{38}N_2O_4</math> Armochaetoglobin F</p>	<i>Chaetomium globosum</i> TW1-1	Displayed no cytotoxicity	79

238	 <p>Chemical structure of Armochaetoglobin G, a complex polycyclic molecule featuring a central bicyclic core with a fused indole ring system, a decalin-like ring, and a long side chain with multiple hydroxyl and methyl groups. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{38}N_2O_4</math> Armochaetoglobin G</p>	<p><i>Chaetomium globosum</i> TW1-1, <i>Chaetomium globosum</i> C2F17</p>	<p>Displayed cytotoxicity and no anti-tuberculosis activity</p>	<p>38,79</p>
239	 <p>Chemical structure of Armochaetoglobin H, similar to G but with an additional hydroxyl group on the long side chain.</p> <p><math>C_{32}H_{36}N_2O_5</math> Armochaetoglobin H</p>	<p><i>Chaetomium globosum</i> TW1-1</p>	<p>Cytotoxicity</p>	<p>79</p>
240	 <p>Chemical structure of Armochaetoglobin I, similar to G but with an additional hydroxyl group on the long side chain in a different position.</p> <p><math>C_{32}H_{40}N_2O_4</math> Armochaetoglobin I</p>	<p><i>Chaetomium globosum</i> TW1-1, <i>Chaetomium globosum</i> YE3048</p>	<p>Displayed no cytotoxicity</p>	<p>62,79</p>

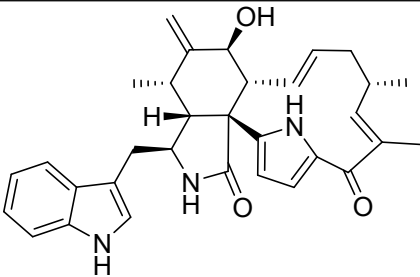
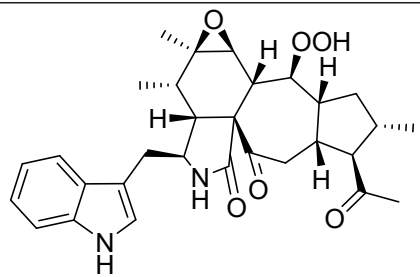
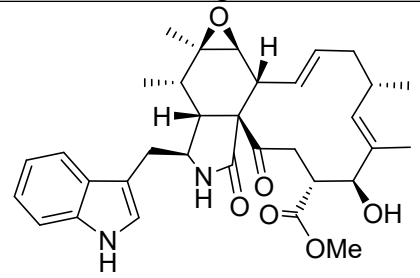
241	 <p>Chemical structure of Armochaetoglobin J, a complex polycyclic molecule featuring a central ring system with a hydroxyl group, a methyl group, and a side chain containing a ketone and a double bond. It is substituted with an indole ring system.</p> <p><math>C_{32}H_{36}N_2O_6</math> Armochaetoglobin J</p>	<i>Chaetomium globosum</i> TW1-1	Cytotoxicity	79
242	 <p>Chemical structure of Chaetoglobosin W, similar to Armochaetoglobin J but with an additional hydroxyl group on the side chain.</p> <p><math>C_{32}H_{38}N_2O_6</math> Chaetoglobosin W</p>	<i>Chaetomium globosum</i> TW1-1	Not determined for any relevant biological activity	79
243	 <p>Chemical structure of Isochaetoglobosin J, featuring a different ring system compared to the other two compounds, with a methyl group and a side chain containing a ketone and a double bond, and an indole ring system.</p> <p><math>C_{32}H_{35}N_3O_2</math> Isochaetoglobosin J</p>	<i>Chaetomium globosum</i> TW1-1	Not determined for any relevant biological activity	79

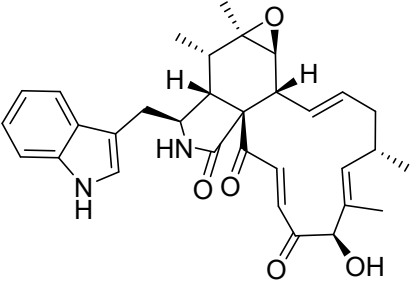
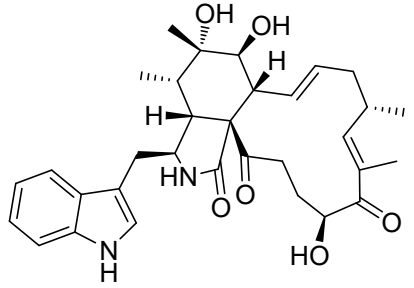
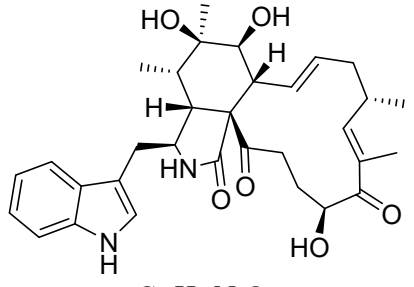
244	 <p>Chemical structure of Armochaetoglobin K, a complex polycyclic molecule with a central bicyclic core, a benzimidazole ring system, and a decalin-like ring system. It features a methyl group, a hydrogen atom with a wedge bond, and a carbonyl group.</p> <p><math>C_{32}H_{35}N_3O_2</math> Armochaetoglobin K</p>	<i>Chaetomium globosum</i> TW1-1	Antiviral	65
245	 <p>Chemical structure of Armochaetoglobin L, similar to K but with an additional hydroxyl group (-OH) attached to the decalin-like ring system.</p> <p><math>C_{32}H_{35}N_3O_3</math> Armochaetoglobin L</p>	<i>Chaetomium globosum</i> TW1-1	Antiviral	65
246	 <p>Chemical structure of Armochaetoglobin M, similar to L but with an additional oxygen atom forming a bridge between two carbons in the decalin-like ring system.</p> <p><math>C_{32}H_{35}N_3O_4</math> Armochaetoglobin M</p>	<i>Chaetomium globosum</i> TW1-1	Antiviral	65

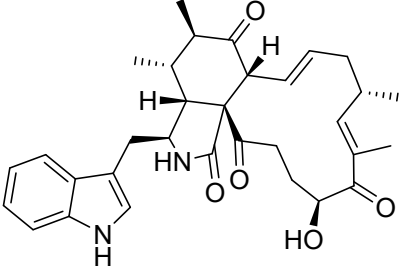
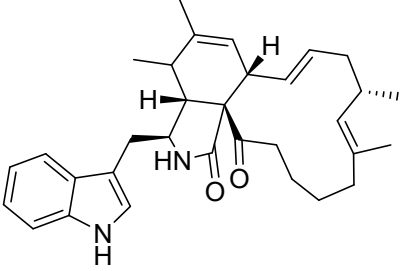
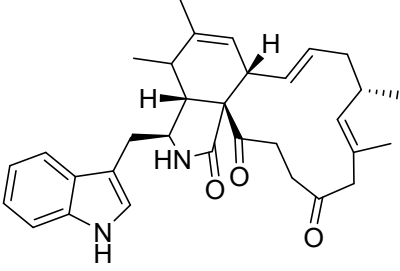
247	 <p> <math>C_{32}H_{37}N_3O_3</math>  Armochaetoglobin N </p>	<i>Chaetomium globosum</i> TW1-1	Antiviral	65
248	 <p> <math>C_{32}H_{37}N_3O_3</math>  Armochaetoglobin O </p>	<i>Chaetomium globosum</i> TW1-1	Antiviral	65
249	 <p> <math>C_{32}H_{37}N_3O_3</math>  Armochaetoglobin P </p>	<i>Chaetomium globosum</i> TW1-1	Antiviral	65

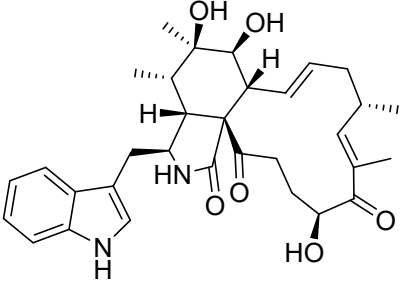
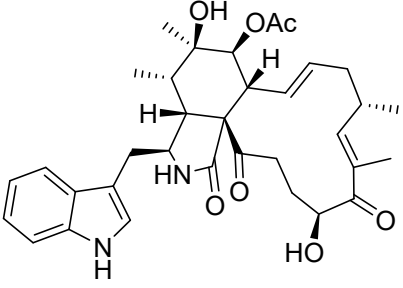
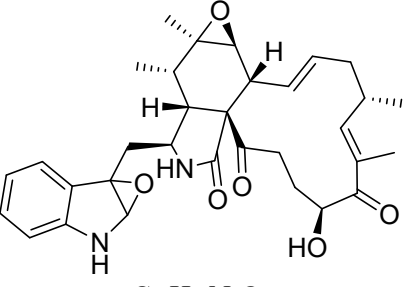
250	 <p>Chemical structure of Armochaetoglobin Q, a complex polycyclic molecule featuring a central bicyclic core with a fused indole ring system, a lactam ring, and a decalin-like ring system. It has a molecular formula of <math>C_{32}H_{37}N_3O_3</math>.</p> <p><math>C_{32}H_{37}N_3O_3</math> Armochaetoglobin Q</p>	<i>Chaetomium globosum</i> TW1-1	Antiviral	65
251	 <p>Chemical structure of Armochaetoglobin R, similar to Armochaetoglobin Q but with a hydroxyl group at the 10-position of the decalin ring. It has a molecular formula of <math>C_{32}H_{37}N_3O_3</math>.</p> <p><math>C_{32}H_{37}N_3O_3</math> Armochaetoglobin R</p>	<i>Chaetomium globosum</i> TW1-1	Antiviral	65
252	 <p>Chemical structure of Penochalasin B, similar to Armochaetoglobin R but with a methyl group at the 11-position of the decalin ring. It has a molecular formula of <math>C_{32}H_{35}N_3O_3</math>.</p> <p><math>C_{32}H_{35}N_3O_3</math> Penochalasin B</p>	<i>Chaetomium globosum</i> TW1-1, TY1, <i>Xylaria</i> sp	Antiviral	65,72,84

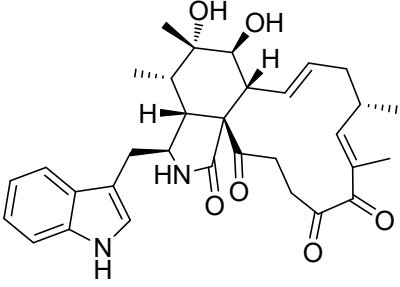
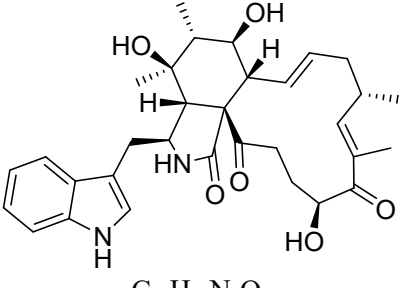
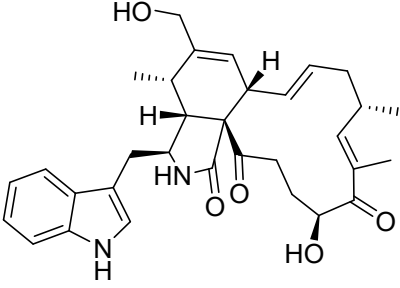


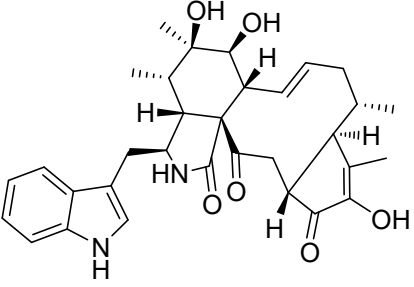
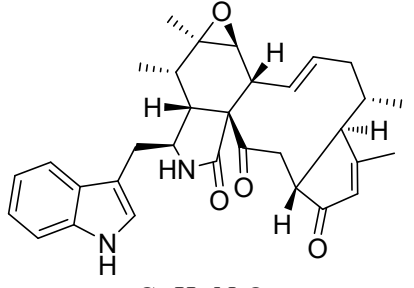
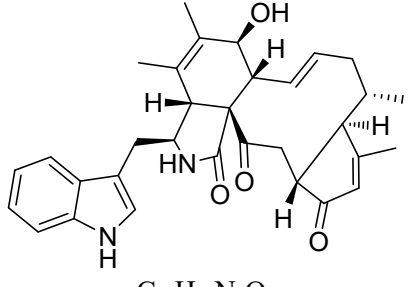
253	 <p> <math>C_{32}H_{35}N_3O_3</math>  Penochalasin C </p>	<i>Chaetomium globosum</i> TW1-1	Antiviral	65
254	 <p> <math>C_{30}H_{36}N_2O_6</math>  Armochaeglobine A </p>	<i>Chaetomium globosum</i> TW1-1	Displayed no cytotoxicity	60
255	 <p> <math>C_{33}H_{40}N_2O_6</math>  Armochaeglobine B </p>	<i>Chaetomium globosum</i> TW1-1	Cytotoxicity	60

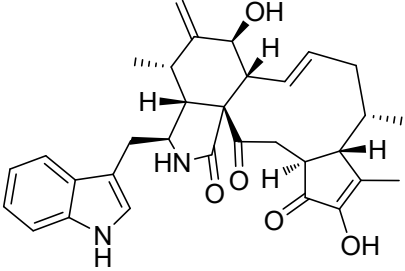
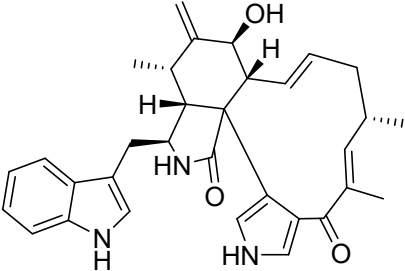
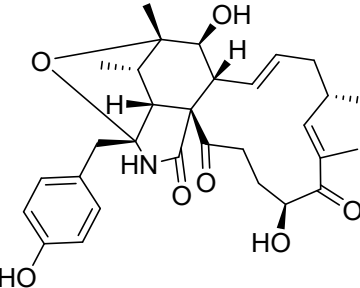
256	 <p>Chemical structure of Armochaeglobine C, a complex polycyclic molecule featuring a central ring system with a fused indole moiety, a lactone ring, and a long unsaturated side chain with multiple hydroxyl groups. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{36}N_2O_5</math> Armochaeglobine C</p>	<i>Chaetomium globosum</i> TW1-1	Displayed no cytotoxicity	60
257	 <p>Chemical structure of Cytoglobosin H, similar to Armochaeglobine C but with an additional hydroxyl group on the side chain. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{40}N_2O_6</math> Cytoglobosin H</p>	<i>Chaetomium globosum</i> MCCC 3A00607	Cytotoxicity	71
258	 <p>Chemical structure of Cytoglobosin I, similar to Cytoglobosin H but with a different stereochemistry at the hydroxyl group on the side chain. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{40}N_2O_6</math> Cytoglobosin I</p>	<i>Chaetomium globosum</i> MCCC 3A00607	Displayed no cytotoxicity	71

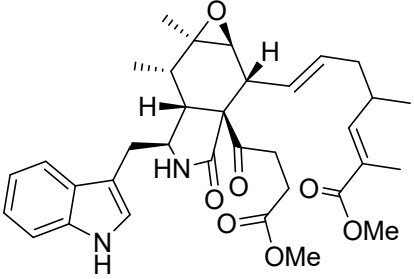
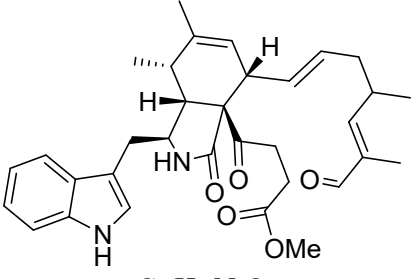
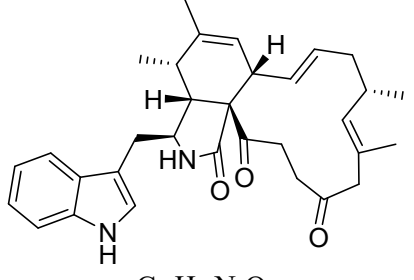
259	 <p><math>C_{32}H_{38}N_2O_5</math> Chaetoglobosin Y</p>	<p><i>Chaetomium globosum</i> TW1-1, <i>Chaetomium globosum</i> C2F17, <i>Chaetomium tectifimeti</i> S104</p>	<p>Displayed cytotoxicity and no anti-tuberculosis activity, no antibacterial and no anti-inflammatory</p>	38,75,76
260	 <p><math>C_{32}H_{40}N_2O_2</math> Prochaetoglobosin I</p>	<p><i>Chaetomium globosum</i> TW1-1, <i>Chaetomium globosum</i> YE3048</p>	<p>Antibacterial, antifungal,</p>	62,76
261	 <p><math>C_{32}H_{38}N_2O_3</math> Prochaetoglobosin II</p>	<p><i>Chaetomium globosum</i> TW1-1, <i>Chaetomium globosum</i> YE3048</p>	<p>Antibacterial, antifungal,</p>	62,76

262	 <p>Chemical structure of Armochaetoglobin S, a complex polycyclic molecule featuring a central bicyclic core with multiple hydroxyl groups, a tryptophan-like side chain, and a long unsaturated side chain with a methyl group and a ketone. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{41}N_2O_6</math> Armochaetoglobin S</p>	<i>Chaetomium globosum</i> TW1-1	Displayed no cytotoxicity	76
263	 <p>Chemical structure of 7-O-acetylarmochaetoglobin S, similar to Armochaetoglobin S but with an acetyl group (OAc) at the 7-position of the bicyclic core.</p> <p><math>C_{34}H_{42}N_2O_7</math> 7-O-acetylarmochaetoglobin S</p>	<i>Chaetomium globosum</i> TW1-1	Displayed no cytotoxicity	76
264	 <p>Chemical structure of Armochaetoglobin T, similar to Armochaetoglobin S but with an epoxide ring fused to the bicyclic core.</p> <p><math>C_{32}H_{38}N_2O_6</math> Armochaetoglobin T</p>	<i>Chaetomium globosum</i> TW1-1	Displayed no cytotoxicity	76

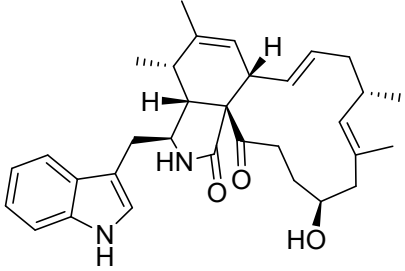
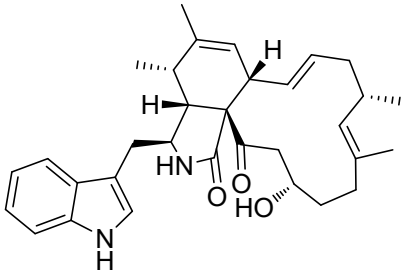
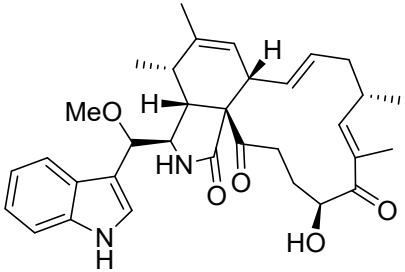
265	 <p>Chemical structure of Armochaetoglobin U, a complex polycyclic molecule featuring a central ring system with multiple hydroxyl groups, a tryptophan-like side chain, and a long unsaturated side chain with a terminal methyl group and a ketone. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{38}N_2O_6</math> Armochaetoglobin U</p>	<p><i>Chaetomium globosum</i> TW1-1, <i>Chaetomium madrasense</i> 375</p>	<p>Displayed no cytotoxicity</p>	<p>76,78</p>
266	 <p>Chemical structure of Armochaetoglobin V, similar to U but with an additional hydroxyl group on the long side chain. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{40}N_2O_6</math> Armochaetoglobin V</p>	<p><i>Chaetomium globosum</i> TW1-1</p>	<p>Displayed no cytotoxicity</p>	<p>76</p>
267	 <p>Chemical structure of Armochaetoglobin W, similar to V but with a hydroxyl group on the central ring system. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{38}N_2O_5</math> Armochaetoglobin W</p>	<p><i>Chaetomium globosum</i> TW1-1</p>	<p>Displayed no cytotoxicity</p>	<p>76</p>

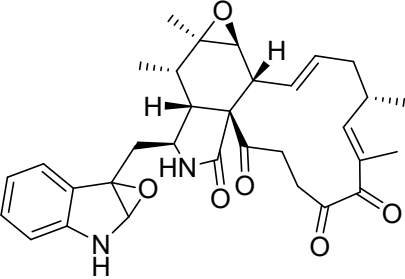
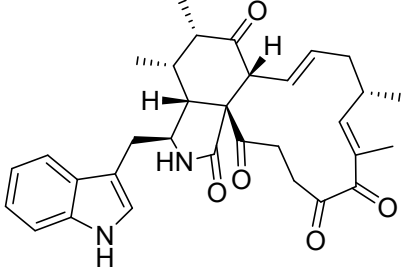
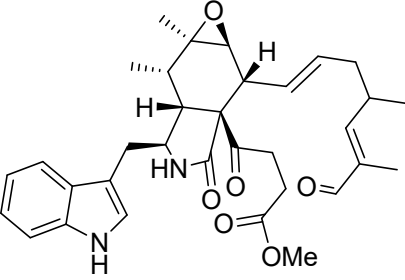
268	 <p>Chemical structure of Armochaetoglobin X, a complex polycyclic molecule with a central ring system, multiple hydroxyl groups, and a tryptophan-like side chain. The structure is highly substituted and contains several stereocenters.</p> <p><math>C_{32}H_{38}N_2O_6</math> Armochaetoglobin X</p>	<i>Chaetomium globosum</i> TW1-1	Displayed no cytotoxicity	76
269	 <p>Chemical structure of Armochaetoglobin Y, similar to X but with a different side chain and a different arrangement of hydroxyl groups. It features a complex polycyclic core with multiple stereocenters.</p> <p><math>C_{32}H_{36}N_2O_4</math> Armochaetoglobin Y</p>	<i>Chaetomium globosum</i> TW1-1	Cytotoxicity, antibacterial	70,76
270	 <p>Chemical structure of Armochaetoglobin Z, similar to Y but with a different side chain and a different arrangement of hydroxyl groups. It features a complex polycyclic core with multiple stereocenters.</p> <p><math>C_{32}H_{36}N_2O_4</math> Armochaetoglobin Z</p>	<i>Chaetomium globosum</i> TW1-1	Cytotoxicity	76

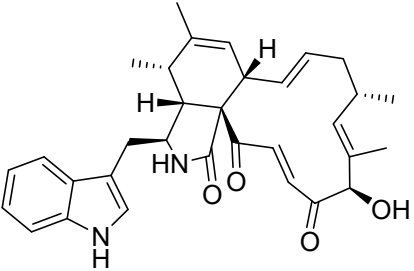
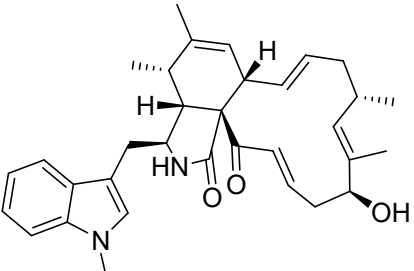
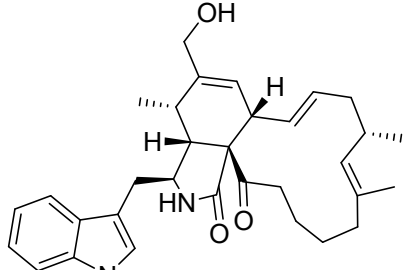
271	 <p><math>C_{32}H_{36}N_2O_5</math> Cytoglobosin A<sub>b</sub></p>	<p><i>Chaetomium globosum</i> SNSHI-5, <i>Chaetomium</i> <i>madrasense</i> 375</p>	<p>Displayed no cytotoxicity</p>	<p>68,69,78</p>
272	 <p><math>C_{32}H_{35}N_3O_3</math> Isochaetoglobosin D<sub>b</sub></p>	<p><i>Chaetomium globosum</i> SNSHI-5</p>	<p>Cytotoxicity</p>	<p>68,69</p>
273	 <p><math>C_{30}H_{37}NO_7</math> Armochaetoglasin A</p>	<p><i>Chaetomium globosum</i> TW1-1</p>	<p>Displayed neither cytotoxicity nor antibacterial</p>	<p>82</p>

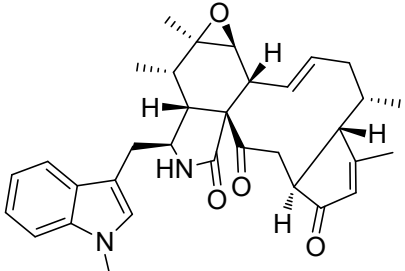
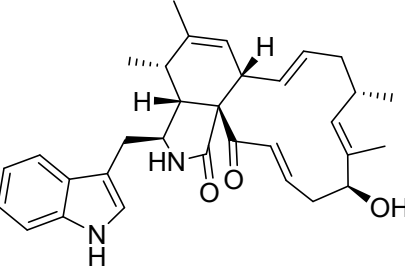
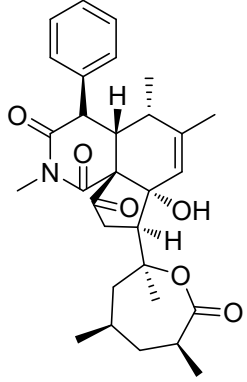
274	 <p>Chemical structure of Armochaetoglasin B, a complex polycyclic molecule featuring a central ring system with multiple stereocenters, a tryptophan-like side chain, and a long unsaturated side chain with a methyl group and a methoxy ester group.</p> <p><math>C_{34}H_{42}N_2O_7</math> Armochaetoglasin B</p>	<i>Chaetomium globosum</i> TW1-1	Displayed cytotoxicity and no antibacterial	82
275	 <p>Chemical structure of Armochaetoglasin C, similar to B but with a different side chain configuration, notably a methoxy group on the long chain.</p> <p><math>C_{33}H_{40}N_2O_5</math> Armochaetoglasin C</p>	<i>Chaetomium globosum</i> TW1-1	Displayed neither cytotoxicity nor antibacterial	82
276	 <p>Chemical structure of Armochaetoglasin D, featuring a different side chain configuration with a ketone group on the long chain.</p> <p><math>C_{32}H_{38}N_2O_3</math> Armochaetoglasin D</p>	<i>Chaetomium globosum</i> TW1-1	Displayed neither cytotoxicity nor antibacterial	82

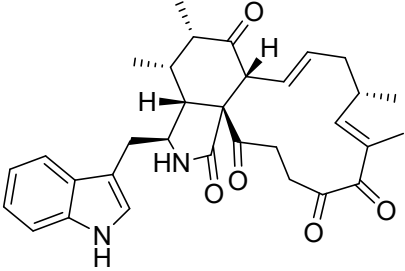
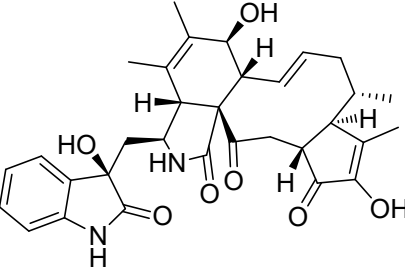


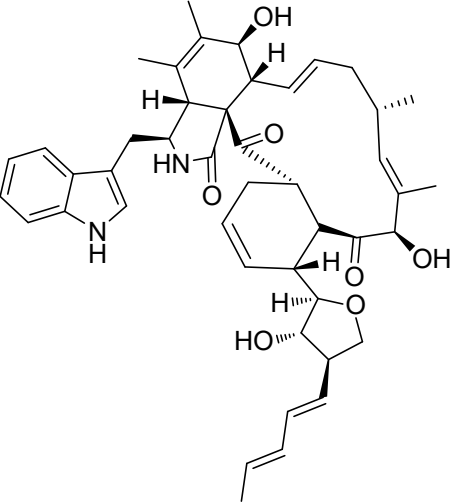
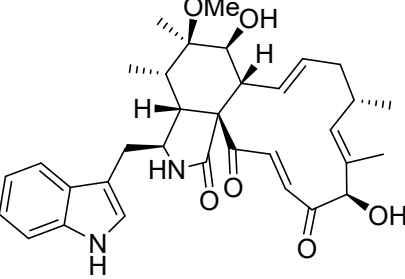
277	 <p>Chemical structure of Armochaetoglasin E, a complex polycyclic molecule. It features a central bicyclic core with a decalin-like system. Attached to this core are a tryptophan residue (indole ring), a hydroxyl group (HO), and a long unsaturated side chain with multiple methyl groups. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{40}N_2O_3</math> Armochaetoglasin E</p>	<i>Chaetomium globosum</i> TW1-1	Displayed neither cytotoxicity nor antibacterial	82
278	 <p>Chemical structure of Armochaetoglasin F, very similar to E but with a different stereochemistry at the hydroxyl group (HO) on the side chain.</p> <p><math>C_{32}H_{40}N_2O_3</math> Armochaetoglasin F</p>	<i>Chaetomium globosum</i> TW1-1	Displayed neither cytotoxicity nor antibacterial	82
279	 <p>Chemical structure of Armochaetoglasin G, similar to E and F but with a methoxy group (MeO) on the tryptophan residue and a ketone group (C=O) on the side chain.</p> <p><math>C_{33}H_{40}N_2O_5</math> Armochaetoglasin G</p>	<i>Chaetomium globosum</i> TW1-1	Displayed neither cytotoxicity nor antibacterial	82

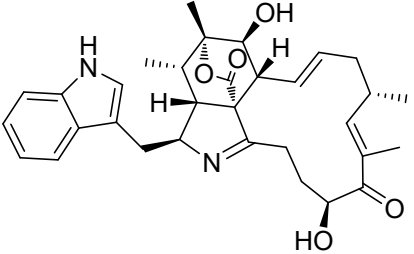
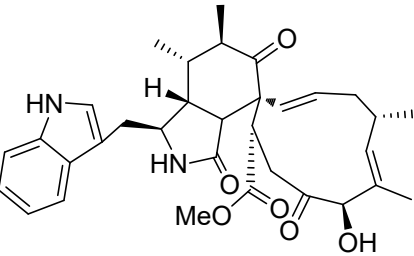
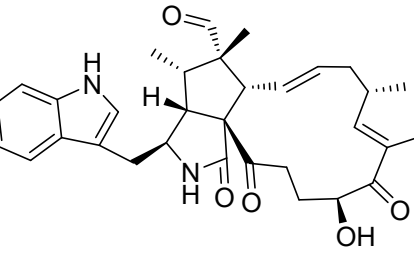
280	 <p>Chemical structure of Armochaetoglasin H, a complex polycyclic molecule with a central ring system, a fused benzimidazole ring, and a long side chain with multiple oxygen-containing functional groups. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{36}N_2O_6</math> Armochaetoglasin H</p>	<i>Chaetomium globosum</i> TW1-1	Displayed neither cytotoxicity nor antibacterial	82
281	 <p>Chemical structure of Armochaetoglasin I, similar to H but with a different side chain configuration. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{36}N_2O_5</math> Armochaetoglasin I</p>	<i>Chaetomium globosum</i> TW1-1, <i>Chaetomium tectifimeti</i> S104	Displayed cytotoxicity and no antibacterial, no anti-inflammatory	75,82
282	 <p>Chemical structure of Armochaetoglobin E, similar to H and I but with a methoxy group (OMe) on the side chain. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{33}H_{40}N_2O_6</math> Armochaetoglobin E</p>	<i>Chaetomium globosum</i> TW1-1	Displayed neither cytotoxicity nor antibacterial	82

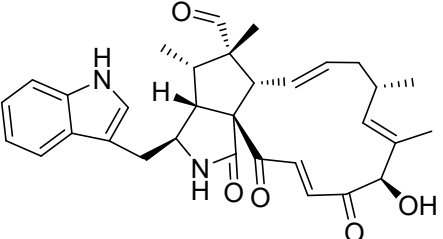
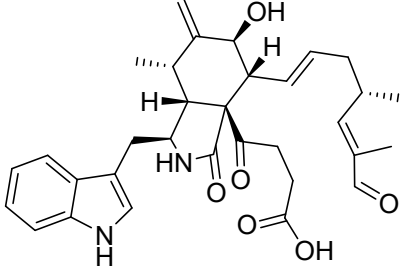
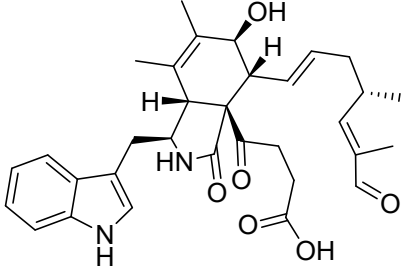
283	 <p>Chemical structure of Chaetoglobosin J, a complex polyketide with a central bicyclic core, a tryptophan-derived side chain, and a long unsaturated side chain with multiple methyl and hydroxyl groups.</p> <p><math>C_{32}H_{36}N_2O_4</math> Chaetoglobosin J</p>	<p><i>Chaetomium globosum</i> TW1-1, <i>Chaetomium globosum</i> kz-19</p>	<p>Displayed cytotoxicity and no antibacterial</p>	<p>39,82</p>
284	 <p>Chemical structure of Armochaetoglosin A, similar to Chaetoglobosin J but with a methyl group on the nitrogen of the tryptophan side chain.</p> <p><math>C_{33}H_{40}N_2O_3</math> Armochaetoglosin A</p>	<p><i>Chaetomium globosum</i> TW1-1</p>	<p>Antibacterial</p>	<p>70</p>
285	 <p>Chemical structure of Armochaetoglosin B, similar to Armochaetoglosin A but with a hydroxyl group on the long side chain.</p> <p><math>C_{33}H_{42}N_2O_3</math> Armochaetoglosin B</p>	<p><i>Chaetomium globosum</i> TW1-1</p>	<p>Antibacterial</p>	<p>70</p>

286	 <p>Chemical structure of Armochaetoglosin C, a complex polycyclic molecule featuring a central ring system with multiple stereocenters, a fused indole ring system, and a long side chain with a terminal hydroxyl group. The structure is highly detailed with wedged and dashed bonds indicating stereochemistry.</p> <p><math>C_{33}H_{38}N_2O_4</math> Armochaetoglosin C</p>	<i>Chaetomium globosum</i> TW1-1	Antibacterial	70
287	 <p>Chemical structure of Chaetoglobosin T, a complex polycyclic molecule similar to Armochaetoglosin C but with a different side chain and stereochemistry. It features a central ring system, a fused indole ring system, and a long side chain with a terminal hydroxyl group.</p> <p><math>C_{32}H_{38}N_2O_3</math> Chaetoglobosin T</p>	<i>Chaetomium globosum</i> TW1-1	Antibacterial	70
288	 <p>Chemical structure of Chamiside A, a complex polycyclic molecule with a central ring system, a fused indole ring system, and a long side chain with a terminal hydroxyl group. The structure is highly detailed with wedged and dashed bonds indicating stereochemistry.</p> <p><math>C_{30}H_{37}NO_6</math> Chamiside A</p>	<i>Chaetomium nigricolor</i> F5	Antibacterial	85

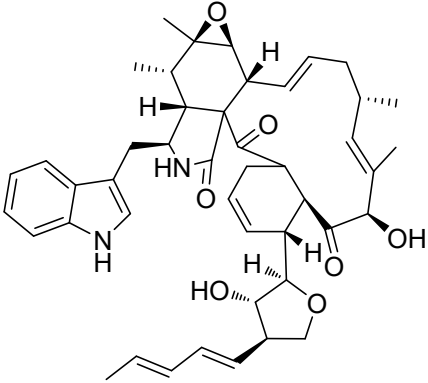
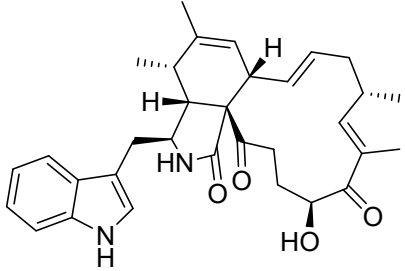
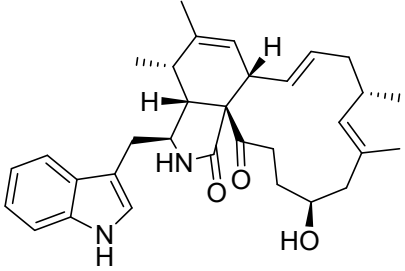
289	 <p> <math>C_{32}H_{36}N_2O_5</math>            Chaetomadrasin A         </p>	<i>Chaetomium madrasense</i> 375	Cytotoxicity	78
290	 <p> <math>C_{32}H_{36}N_2O_7</math>            Chaetomadrasin B         </p>	<i>Chaetomium madrasense</i> 375	Cytotoxicity	78

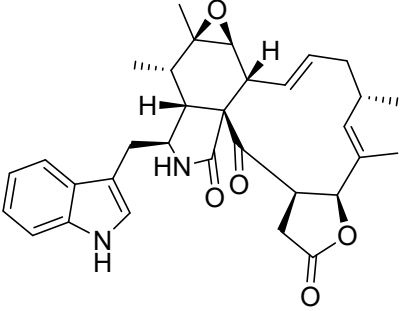
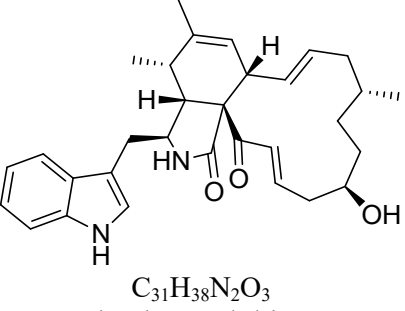
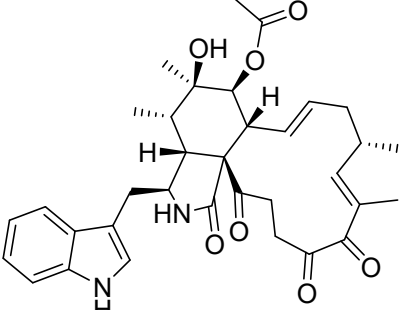
<p>291</p>	 <p> <math>C_{45}H_{54}N_2O_7</math>  Aureochaeglobosin B </p>	<p><i>Chaetomium globosum</i> C2F17</p>	<p>Displayed neither cytotoxicity nor anti-tuberculosis activity</p>	<p>38</p>
<p>292</p>	 <p> <math>C_{33}H_{40}N_2O_6</math>  6-O-methyl-chaetoglobosin Q </p>	<p><i>Chaetomium globosum</i> C2F17</p>	<p>Not determined for any relevant biological activity</p>	<p>38</p>

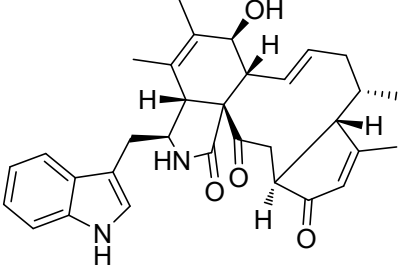
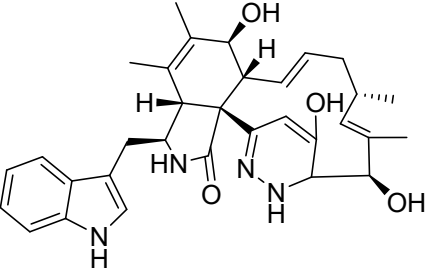
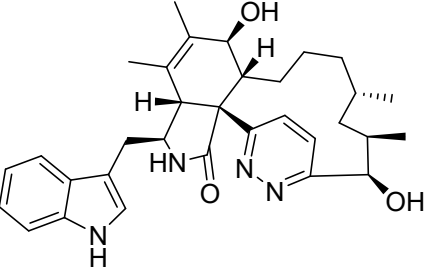
293	 <p>Chemical structure of Pchaeglobolactone A, a complex polycyclic molecule featuring a tryptophan-derived indole ring system, a lactone ring, and a long side chain with multiple methyl groups, a double bond, and a hydroxyl group. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{38}N_2O_5</math> Pchaeglobolactone A</p>	<i>Chaetomium globosum</i> P2-2-2	Cytotoxicity	86
294	 <p>Chemical structure of Spiropchaeglobosin A, a complex polycyclic molecule featuring a tryptophan-derived indole ring system, a spiro-fused ring system, a lactone ring, and a long side chain with multiple methyl groups, a double bond, a hydroxyl group, and a methoxy group. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{33}H_{40}N_2O_6</math> Spiropchaeglobosin A</p>	<i>Chaetomium globosum</i> P2-2-2	Cytotoxicity	86
295	 <p>Chemical structure of Pchaeglobosal A, a complex polycyclic molecule featuring a tryptophan-derived indole ring system, a lactone ring, and a long side chain with multiple methyl groups, a double bond, and a hydroxyl group. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{38}N_2O_5</math> Pchaeglobosal A</p>	<i>Chaetomium globosum</i> P2-2-2	Cytotoxicity	86

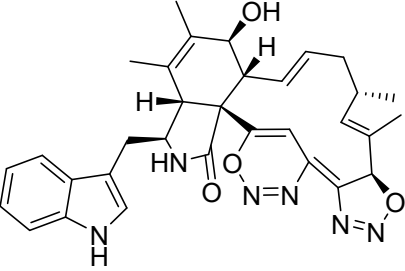
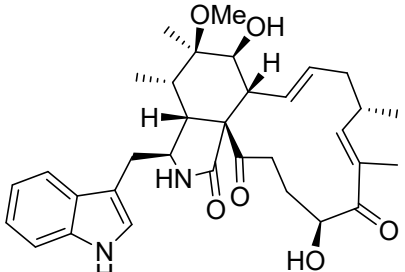
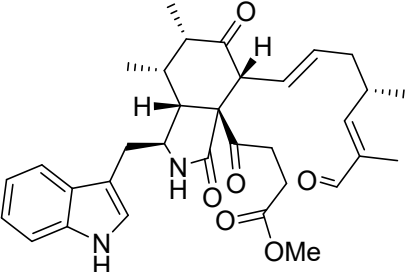
296	 <p> <math>C_{32}H_{36}N_2O_5</math>  Pchaeglobosal B </p>	<i>Chaetomium globosum</i> P2-2-2	Cytotoxicity	86
297	 <p> <math>C_{32}H_{38}N_2O_6</math>  Salchaetoglobosin A </p>	<i>Chaetomium globosum</i> D38	Displayed cytotoxicity but no anti-inflammatory	73
298	 <p> <math>C_{32}H_{38}N_2O_6</math>  Salchaetoglobosin B </p>	<i>Chaetomium globosum</i> D38	Displayed neither cytotoxicity nor anti- inflammatory	73

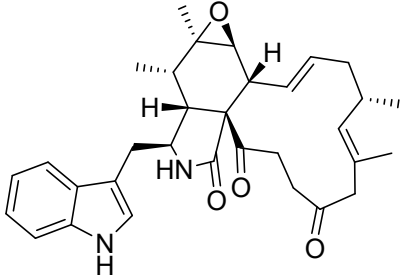
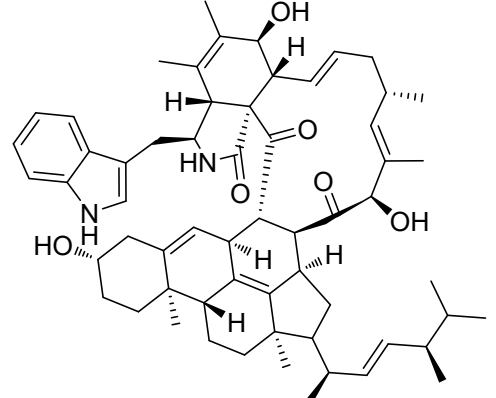


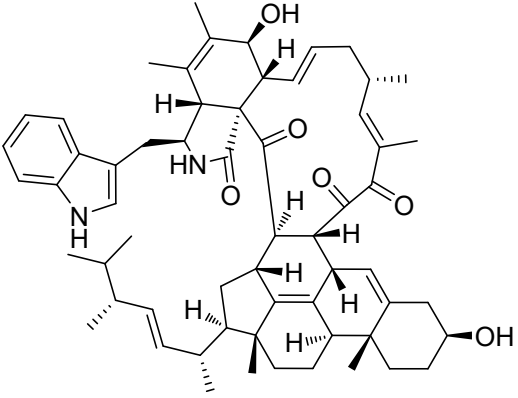
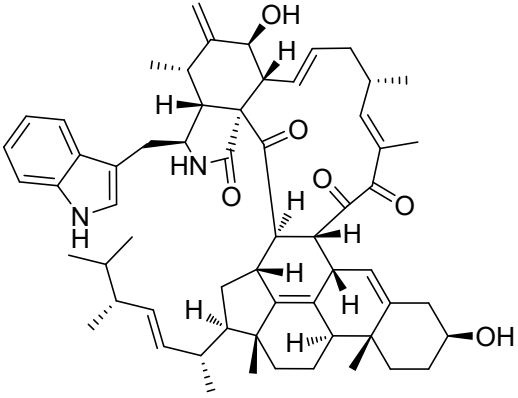
299	 <p>Chemical structure of Aureochaeglobosin A, a complex polyketide with a central bicyclic core, a tryptophan-derived side chain, and a long unsaturated side chain with multiple hydroxyl groups and a terminal epoxide ring.</p> <p><math>C_{45}H_{54}N_2O_7</math> Aureochaeglobosin A</p>	<p><i>Chaetomium globosum</i> YE3048</p>	<p>Antibacterial, antifungal,</p>	<p>62</p>
300	 <p>Chemical structure of Armochaetoglobosin G, a complex polyketide with a central bicyclic core, a tryptophan-derived side chain, and a long unsaturated side chain with multiple hydroxyl groups.</p> <p><math>C_{32}H_{38}N_2O_4</math> Armochaetoglobosin G</p>	<p><i>Chaetomium globosum</i> kz-19</p>	<p>Cytotoxicity</p>	<p>39</p>
301	 <p>Chemical structure of Penochalasin J, a complex polyketide with a central bicyclic core, a tryptophan-derived side chain, and a long unsaturated side chain with multiple hydroxyl groups.</p> <p><math>C_{32}H_{40}N_2O_3</math> Penochalasin J</p>	<p><i>Chaetomium globosum</i> kz-19</p>	<p>Cytotoxicity</p>	<p>39</p>

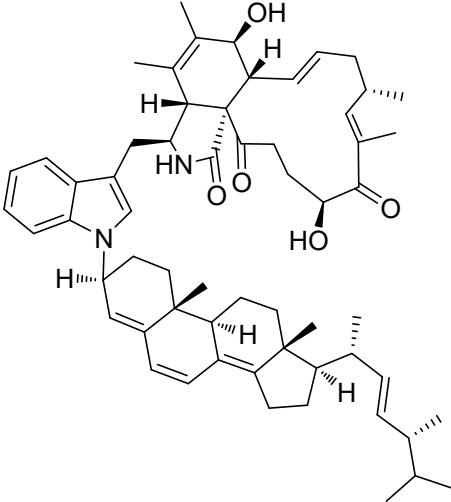
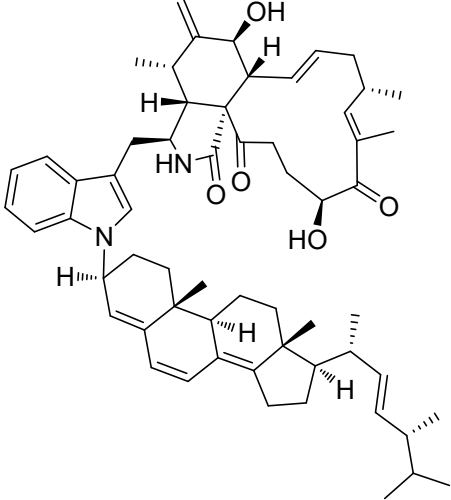
302	 <p>Chemical structure of Phychaetoglobin A, a complex polycyclic molecule featuring a central ring system with multiple stereocenters, a tryptophan-like side chain, and a long unsaturated side chain with a terminal lactone ring.</p> <p><math>C_{32}H_{36}N_2O_5</math> Phychaetoglobin A</p>	<i>Chaetomium globosum</i> kz-19	Cytotoxicity	39
303	 <p>Chemical structure of Phychaetoglobin B, similar to A but with a hydroxyl group on the long side chain.</p> <p><math>C_{31}H_{38}N_2O_3</math> Phychaetoglobin B</p>	<i>Chaetomium globosum</i> kz-19	Cytotoxicity	39
304	 <p>Chemical structure of Phychaetoglobin C, similar to A but with an additional hydroxyl group and a different side chain configuration.</p> <p><math>C_{34}H_{40}N_2O_7</math> Phychaetoglobin C</p>	<i>Chaetomium globosum</i> kz-19	Cytotoxicity	39

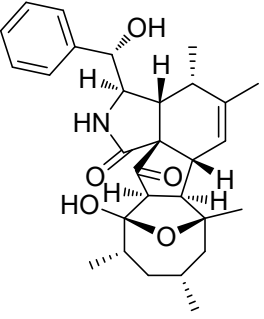
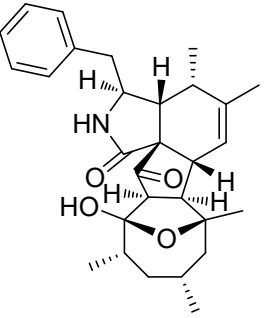
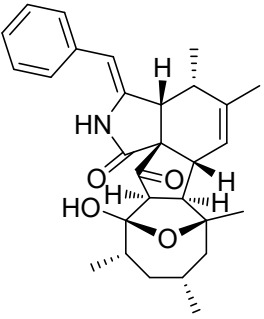
305	 <p style="text-align: center;"> <math>C_{32}H_{36}N_2O_4</math>  Phychaetoglobin D </p>	<i>Chaetomium globosum</i> kz-19	Cytotoxicity	39
306	 <p style="text-align: center;"> <math>C_{32}H_{38}N_4O_4</math>  Chaetoglobosin B<sub>1</sub> </p>	<i>Chaetomium madrasense</i> 375	Cytotoxicity	74
307	 <p style="text-align: center;"> <math>C_{32}H_{40}N_4O_3</math>  Chaetoglobosin B<sub>2</sub> </p>	<i>Chaetomium madrasense</i> 375	Displayed no cytotoxicity	74

308	 <p>Chemical structure of Chaetoglobosin B<sub>3</sub>, a complex polycyclic alkaloid. It features a central bicyclic core with a tryptophan-derived side chain, a diene system, and a diazo group. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{32}H_{34}N_6O_4</math> Chaetoglobosin B<sub>3</sub></p>	<i>Chaetomium madrasense</i> 375	Displayed no cytotoxicity	74
309	 <p>Chemical structure of Rubichaetoglobosin A, a complex polycyclic alkaloid. It features a central bicyclic core with a tryptophan-derived side chain, a diene system, and a hydroxyl group. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{33}H_{42}N_2O_6</math> Rubichaetoglobosin A</p>	<i>Chaetomium tectifimeti</i> S104	Displayed no cytotoxicity, no antibacterial, no anti-inflammatory	75
310	 <p>Chemical structure of Armochaetoglasin L, a complex polycyclic alkaloid. It features a central bicyclic core with a tryptophan-derived side chain, a diene system, and a methoxy group. Stereochemistry is indicated with wedges and dashes.</p> <p><math>C_{33}H_{40}N_2O_6</math> Armochaetoglasin L</p>	<i>Chaetomium globosum</i>	Displayed anti-inflammatory and no antibacterial	87

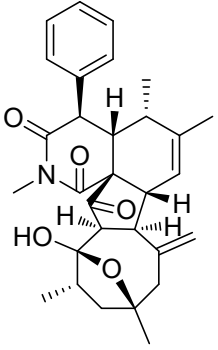
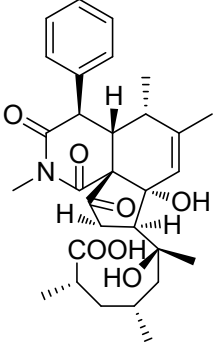
311	 <p> <math>C_{32}H_{38}N_2O_4</math>  Armochaetoglasin M </p>	<i>Chaetomium globosum</i>	Displayed anti-inflammatory and no antibacterial	87
312	 <p> <math>C_{60}H_{78}N_2O_6</math>  Ergochaeglobosin A </p>	<i>Chaeglobosin globosum</i> P2-2-2	Immunosuppressive, cytotoxicity	88

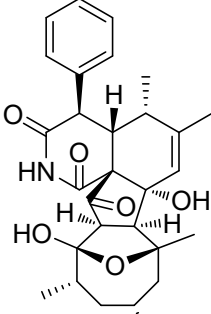
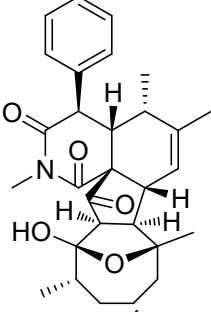
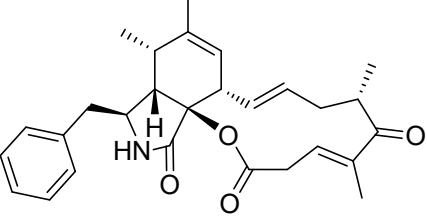
313	 <p style="text-align: center;"> <math>C_{60}H_{76}N_2O_6</math>  Ergochaeglobosin B </p>	<i>Chaeglobosin globosum</i> P2-2-2	Immunosuppressive	88
314	 <p style="text-align: center;"> <math>C_{60}H_{76}N_2O_6</math>  Ergochaeglobosin C </p>	<i>Chaeglobosin globosum</i> P2-2-2	Immunosuppressive	88

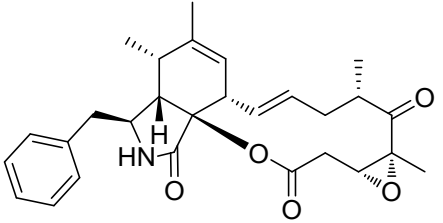
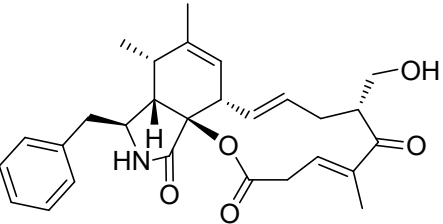
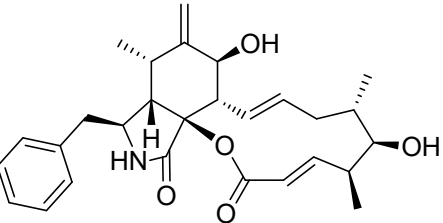
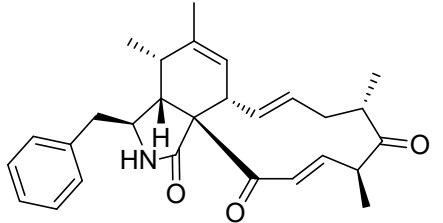
315	 <p style="text-align: center;"> <math>C_{60}H_{78}N_2O_5</math>  Ergochaeglobosin D </p>	<i>Chaeglobosin globosum</i> P2-2-2	Immunosuppressive	88
316	 <p style="text-align: center;"> <math>C_{60}H_{78}N_2O_5</math>  Ergochaeglobosin E </p>	<i>Chaeglobosin globosum</i> P2-2-2	Immunosuppressive	88

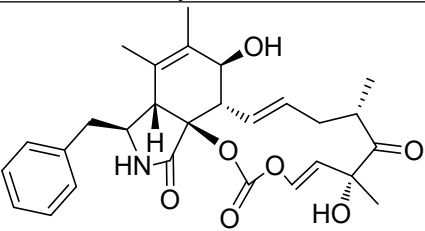
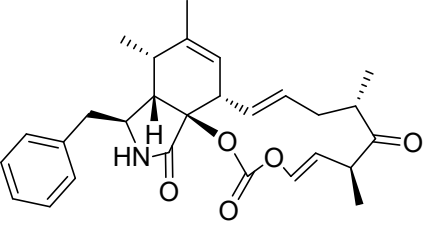
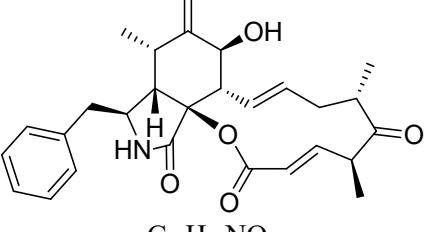
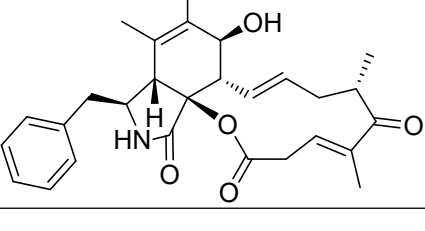
317	 <p> <math>C_{29}H_{37}NO_5</math>  Chamiside B </p>	<i>Chaetomium nigricolor</i> F5	Displayed phytotoxicity, no antibacterial, no anticandidal	89
318	 <p> <math>C_{29}H_{37}NO_4</math>  Chamiside C </p>	<i>Chaetomium nigricolor</i> F5	Displayed no antibacterial, no anticandidal	89
319	 <p> <math>C_{29}H_{35}NO_4</math>  Chamiside D </p>	<i>Chaetomium nigricolor</i> F5	Displayed no antibacterial, no anticandidal	89

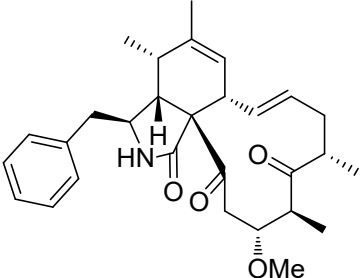
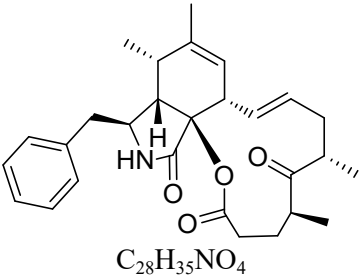
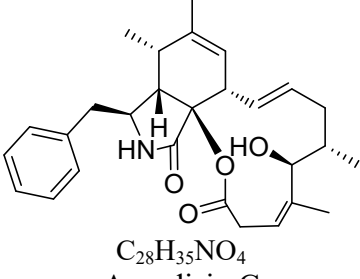


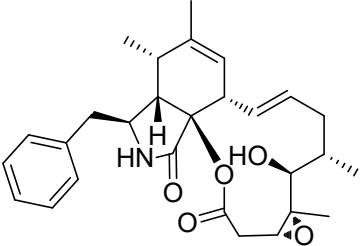
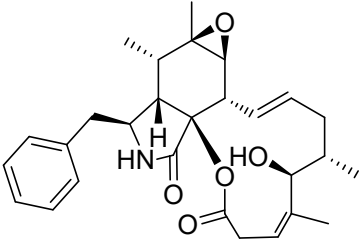
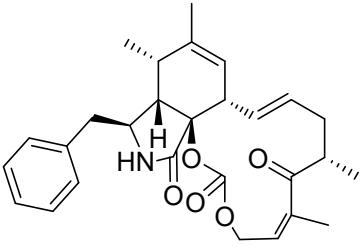
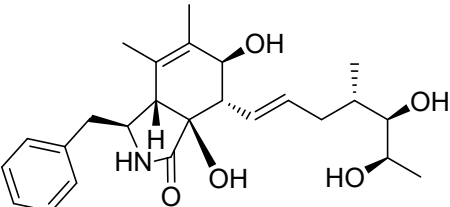
<p>320</p>	 <p> <math>C_{30}H_{35}NO_5</math>            Chamiside E         </p>	<p><i>Chaetomium nigricolor</i> F5</p>	<p>Displayed no antibacterial, no anticandidal</p>	<p>89</p>
<p>321</p>	 <p> <math>C_{30}H_{39}NO_7</math>            Chamiside F         </p>	<p><i>Chaetomium nigricolor</i> F5</p>	<p>Displayed no phytotoxicity, no antibacterial, no anticandidal</p>	<p>89</p>

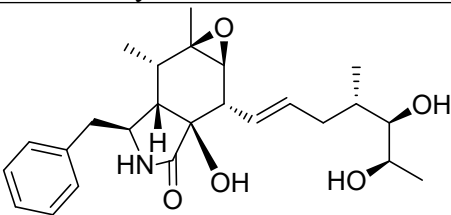
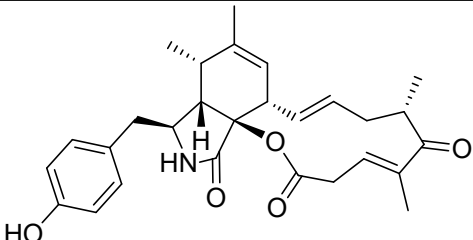
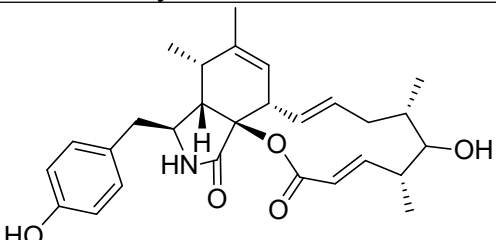
322	 <p style="text-align: center;">C<sub>29</sub>H<sub>35</sub>NO<sub>6</sub> Chaetoconvosin C</p>	<i>Chaetomium nigricolor</i> F5	Displayed no antibacterial, no anticandidal	89
323	 <p style="text-align: center;">C<sub>30</sub>H<sub>37</sub>NO<sub>5</sub> Chaetoconvosin D</p>	<i>Chaetomium nigricolor</i> F5	Displayed no antibacterial, no anticandidal	89
324	 <p style="text-align: center;">C<sub>28</sub>H<sub>33</sub>NO<sub>4</sub> Arthriniumn A</p>	<i>Arthrinium arundinis</i> ZSDS1-F3, <i>Arthrinium arundinis</i> DJ-13	Displayed neither cytotoxicity nor antituberculosis	31,32

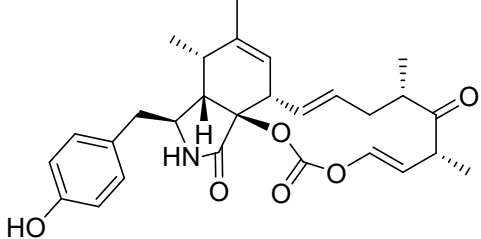
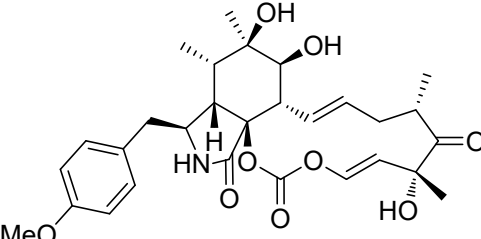
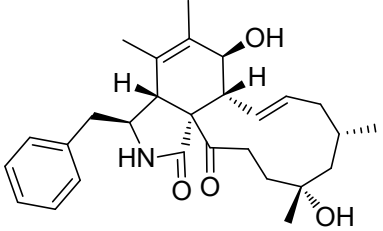
325	 <p style="text-align: center;">C<sub>28</sub>H<sub>33</sub>NO<sub>4</sub> Arthriniumnin B</p>	<p style="text-align: center;"><i>Arthrinium arundinis</i> ZSDS1-F3, <i>Arthrinium arundinis</i> DJ-13</p>	<p style="text-align: center;">Displayed neither cytotoxicity nor antituberculosis</p>	<p style="text-align: center;">31,32</p>
326	 <p style="text-align: center;">C<sub>28</sub>H<sub>33</sub>NO<sub>5</sub> Arthriniumnin C</p>	<p style="text-align: center;"><i>Arthrinium arundinis</i> ZSDS1-F3, <i>Arthrinium arundinis</i> DJ-13</p>	<p style="text-align: center;">Not determined for any relevant biological activity</p>	<p style="text-align: center;">31,32</p>
327	 <p style="text-align: center;">C<sub>28</sub>H<sub>35</sub>NO<sub>5</sub> Arthriniumnin D</p>	<p style="text-align: center;"><i>Arthrinium arundinis</i> ZSDS1-F3, <i>Arthrinium arundinis</i> DJ-13</p>	<p style="text-align: center;">Displayed neither cytotoxicity nor antituberculosis</p>	<p style="text-align: center;">31,32</p>
328	 <p style="text-align: center;">C<sub>28</sub>H<sub>33</sub>NO<sub>3</sub></p>	<p style="text-align: center;"><i>Arthrinium arundinis</i> ZSDS1-F3, <i>Daldinia sacchari</i></p>	<p style="text-align: center;">Displayed neither cytotoxicity nor antituberculosis, but showed antimicrobial effect</p>	<p style="text-align: center;">31,90</p>

	Ketocytochalasin			
329	 <p>C<sub>28</sub>H<sub>33</sub>NO<sub>7</sub> Cytochalasin K</p>	<i>Arthrinium arundinis</i> ZSDS1-F3, <i>Dematophora necatrix</i> (MUCL 57709)	Displayed cytotoxicity and no antituberculosis	31,91
330	 <p>C<sub>28</sub>H<sub>33</sub>NO<sub>5</sub> Cytocalasin Z<sub>16</sub></p>	<i>Arthrinium arundinis</i> ZSDS1-F3	Displayed neither cytotoxicity nor antituberculosis	31
331	 <p>C<sub>28</sub>H<sub>33</sub>NO<sub>5</sub> 10-phenyl-[12]-cytochalasin Z<sub>16</sub></p>	<i>Arthrinium arundinis</i> ZSDS1-F3	Displayed cytotoxicity and no antituberculosis	31
332		<i>Arthrinium arundinis</i> ZSDS1-F3	Displayed neither cytotoxicity nor antituberculosis	31

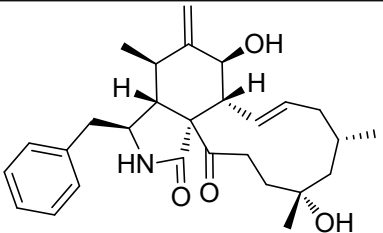
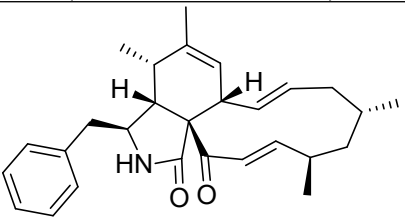
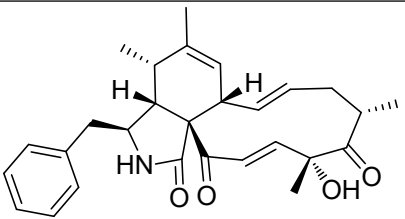
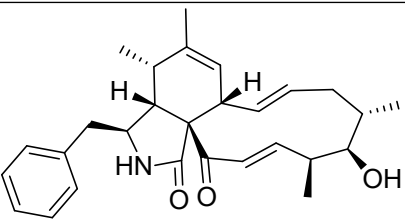
	$C_{28}H_{33}NO_5$ Cytochalasin Z17			
333	 <p> <math>C_{29}H_{37}NO_4</math>            Arundisin A         </p>	<i>Arthrinium arundinis</i> DJ-13	Displayed cytotoxicity, no antibacterial and no antifungal	32
334	 <p> <math>C_{28}H_{35}NO_4</math>            Arundisin B         </p>	<i>Arthrinium arundinis</i> DJ-13	Displayed cytotoxicity, no antibacterial and no antifungal	32
335	 <p> <math>C_{28}H_{35}NO_4</math>            Arundisin C         </p>	<i>Arthrinium arundinis</i> DJ-13	Displayed cytotoxicity, no antibacterial and no antifungal	32

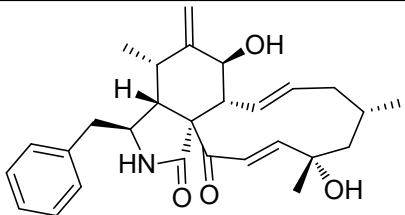
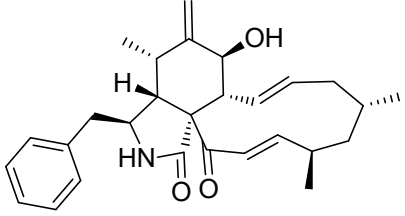
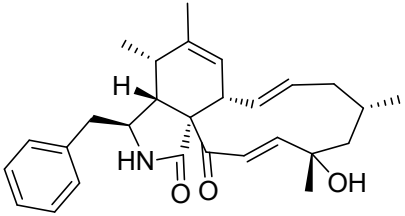
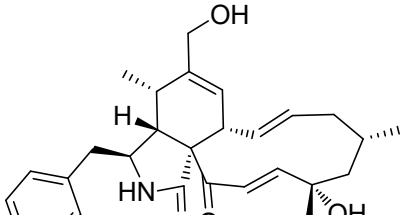
336	 <p>C<sub>28</sub>H<sub>35</sub>NO<sub>5</sub> Arundisin D</p>	<i>Arthrinium arundinis</i> DJ-13	Displayed antifungal, no cytotoxicity, and no antibacterial	32
337	 <p>C<sub>28</sub>H<sub>35</sub>NO<sub>5</sub> Arundisin E</p>	<i>Arthrinium arundinis</i> DJ-13	Not determined for any relevant biological activity	32
338	 <p>C<sub>28</sub>H<sub>33</sub>NO<sub>5</sub> Arundisin F</p>	<i>Arthrinium arundinis</i> DJ-13	Displayed antibacterial, no cytotoxicity, and no antifungal	32
339		<i>Arthrinium arundinis</i> DJ-13	Not determined for any relevant biological activity	32

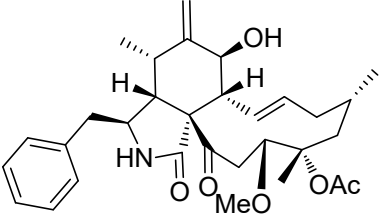
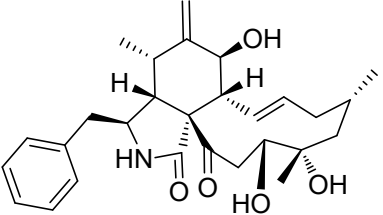
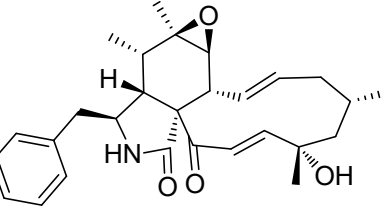
	$C_{25}H_{35}NO_5$ Cytochalasin Z12			
340	 <p>Chemical structure of Cytochalasin Z12, a bicyclic compound with a phenyl group, a hydroxyl group, and a side chain with two hydroxyl groups.</p> $C_{25}H_{35}NO_5$ Cytochalasin Z21	<i>Arthrinium arundinis</i> DJ-13	Not determined for any relevant biological activity	32
341	 <p>Chemical structure of Cytochalasin Z24, a bicyclic compound with a p-hydroxybenzyl group, a hydroxyl group, and a side chain with a ketone and a hydroxyl group.</p> $C_{28}H_{33}NO_5$ Cytochalasin Z24	<i>Eutypella</i> sp. D-1	Cytotoxicity	92,93
342	 <p>Chemical structure of Cytochalasin Z25, a bicyclic compound with a p-hydroxybenzyl group, a hydroxyl group, and a side chain with a hydroxyl group.</p> $C_{28}H_{35}NO_5$ Cytochalasin Z25	<i>Eutypella</i> sp. D-1	Cytotoxicity	92,93

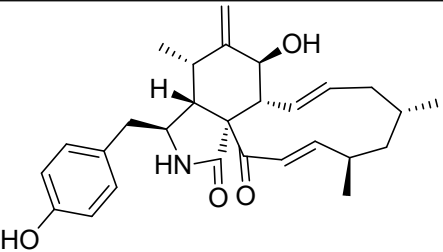
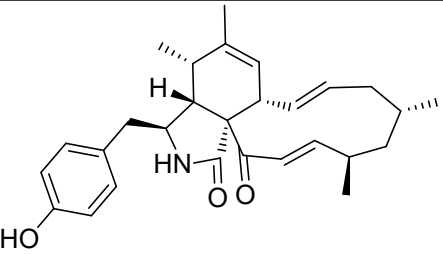
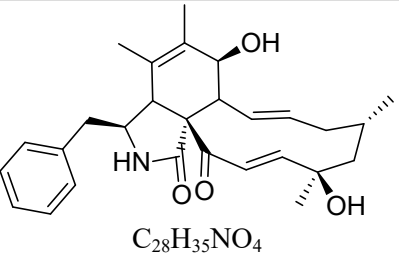
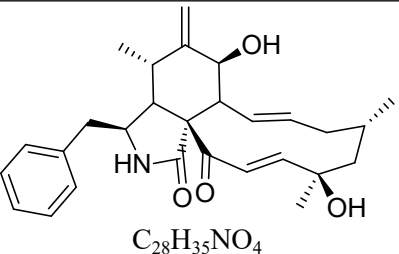
343	 <p style="text-align: center;"> <math>C_{28}H_{33}NO_6</math>            Cytochalasin Z26         </p>	<i>Eutypella</i> sp. D-1	Displayed no cytotoxicity	92,93
344	 <p style="text-align: center;"> <math>C_{29}H_{37}NO_9</math>            Scoparasin B         </p>	<i>Eutypella</i> sp. D-1	Cytotoxicity	92,93
345	 <p style="text-align: center;"> <math>C_{28}H_{37}NO_4</math>            [11]-cytochalasin- 5(6),13-diene-1,21-dione-            7,18-dihydroxy-16,18-dimethyl-10-phenyl-            (7<i>S</i>*,13<i>E</i>,16<i>S</i>*,18<i>R</i>*)         </p>	<i>Daldinia eschscholtzii</i> HJ001	Displayed no cytotoxicity but showed antibacterial	94

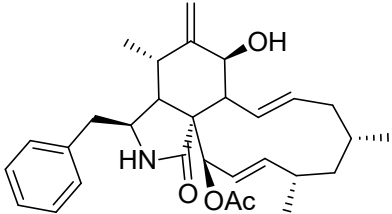
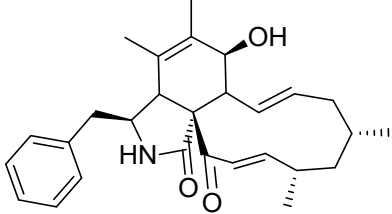
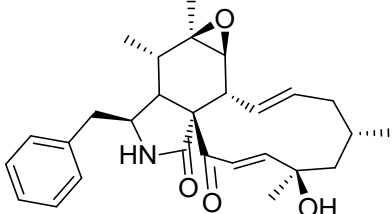
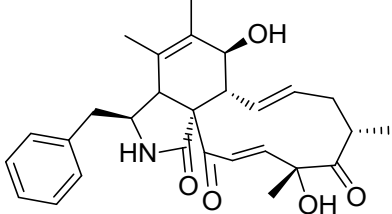


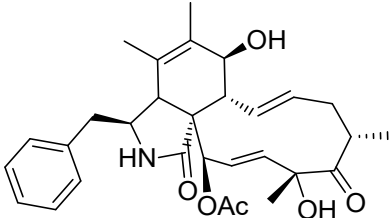
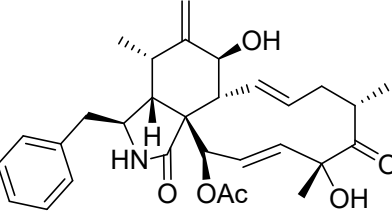
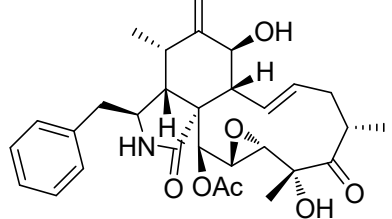
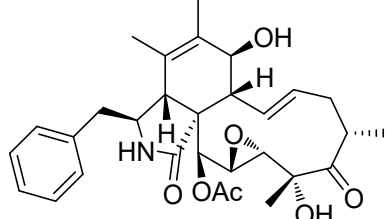
346	 <p style="text-align: center;"> <math>C_{28}H_{37}NO_4</math>  [11]-cytochalasa-6(12),13-diene-1,21-dione-7,18-dihydroxy 16,18-dimethyl-10-phenyl- (7S*,13E,16S*,18R*) </p>	<i>Daldinia eschscholtzii</i> HJ001, <i>Daldinia concentrica</i> , <i>Hypoxyton fragiforme</i>	Displayed cytotoxicity, no antibacterial, nematicidal, and antifungal	6,9,94,95
347	 <p style="text-align: center;"> <math>C_{28}H_{35}NO_2</math>  Saccalasin A </p>	<i>Daldinia sacchari</i>	Displayed cytotoxicity, no antimicrobial effect, antibiofilm	6,53,90
348	 <p style="text-align: center;"> <math>C_{28}H_{33}NO_4</math>  Saccalasin B </p>	<i>Daldinia sacchari</i>	Displayed cytotoxicity and antimicrobial effects	90
349		<i>Daldinia sacchari</i> , <i>Daldinia eschscholtzii</i> BBH42278	Displayed cytotoxicity antimicrobial effects, antibiofilm	6,53,90

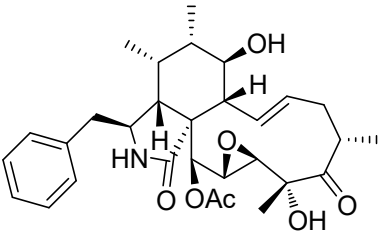
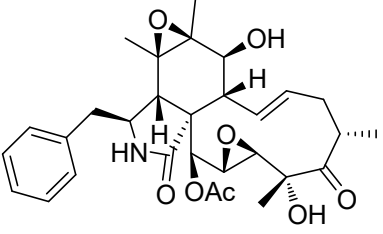
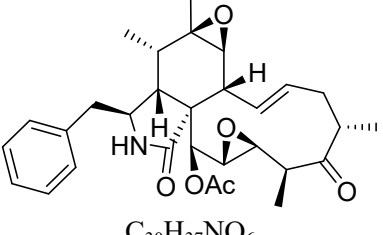
	$C_{28}H_{35}NO_3$ (16 <i>S</i> ,17 <i>R</i> ,18 <i>S</i> )-16,18-dimethyl-17-hydroxy-10-phenyl[11]cytochalasa-6,13,19-triene 1,21-dione			
350	 $C_{28}H_{35}NO_4$	<i>Daldinia eschscholtzii</i> BBH42278	Antibacterial, antibiofilm, nematicidal, antifungal, and actin disruption effect	6,9,53
351	 $C_{28}H_{35}NO_3$	<i>Daldinia eschscholtzii</i> BBH42278	Antibacterial, antibiofilm actin disruption effect	6,53
352	 $C_{28}H_{35}NO_3$	<i>Daldinia eschscholtzii</i> BBH42278	Antibacterial, antibiofilm actin disruption effect	6,53
353	 $C_{28}H_{35}NO_4$	<i>Daldinia eschscholtzii</i> BBH42278	Antibacterial, antibiofilm actin disruption effect	6,53

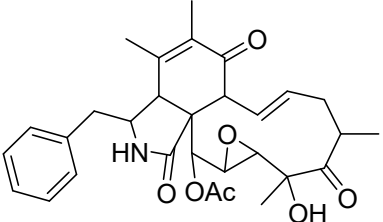
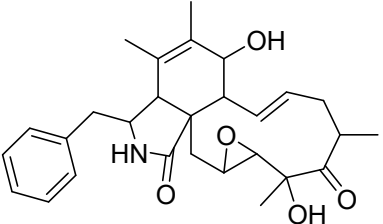
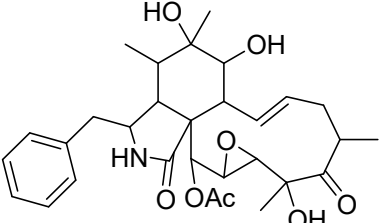
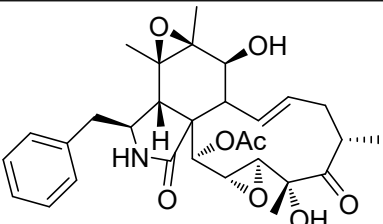
354	 <p>Chemical structure of Daldinin, a complex polycyclic molecule with a phenyl group, a methyl group, a hydroxyl group, a methoxy group, and an acetoxy group.</p> <p><math>C_{31}H_{41}NO_6</math> Daldinin</p>	<i>Daldinia concentrica</i>	Cytotoxicity	95
355	 <p>Chemical structure of [11]-cytochalasa-6(12),13-diene-1,21-dione-7,18,19-trihydroxy-16,18-dimethyl-10-phenyl- (7S*,13E,16S*,18S*,19R*), featuring a phenyl group, two methyl groups, and three hydroxyl groups.</p> <p><math>C_{28}H_{37}NO_5</math> [11]-cytochalasa-6(12),13-diene-1,21-dione-7,18,19-trihydroxy-16,18-dimethyl-10-phenyl- (7S*,13E,16S*,18S*,19R*)</p>	<i>Daldinia concentrica</i>	Cytotoxicity, nematocidal, and antimicrobial	9,95
356	 <p>Chemical structure of (7S,13E,16S,18S,19E)16,18-dimethyl-6,7-epoxy-18-hydroxy-10-phenyl-[11]-cytochalasa-13,19-diene-1,21-dione, featuring a phenyl group, two methyl groups, an epoxy group, and a hydroxyl group.</p> <p><math>C_{28}H_{35}NO_4</math> (7S,13E,16S,18S,19E)16,18-dimethyl-6,7-epoxy-18-hydroxy-10-phenyl-[11]-cytochalasa-13,19-diene-1,21-dione</p>	<i>Daldinia eschscholtzii</i>	Actin disruption effect	6

357	 <p>Chemical structure of Phenochalasin C, a complex polyketide derivative. It features a central six-membered ring with a methyl group, a hydroxyl group, and a piperidine ring. A p-4-hydroxybenzyl group is attached to the piperidine ring. The central ring is also substituted with a methyl group, a hydroxyl group, and a piperidine ring. A piperidine ring is attached to the central ring via a methylene group. The piperidine ring has a methyl group and a hydroxyl group. The central ring is also substituted with a methyl group, a hydroxyl group, and a piperidine ring. A piperidine ring is attached to the central ring via a methylene group. The piperidine ring has a methyl group and a hydroxyl group.</p> <p><math>C_{28}H_{35}NO_4</math> Phenochalasin C</p>	<i>Daldinia kretschmarioides</i> , <i>H. cf. kretschmarioides</i>	Antibacterial, antibiofilm actin disruption effect	6,53
358	 <p>Chemical structure of Phenochalasin D, a complex polyketide derivative. It features a central six-membered ring with a methyl group, a hydroxyl group, and a piperidine ring. A p-4-hydroxybenzyl group is attached to the piperidine ring. The central ring is also substituted with a methyl group, a hydroxyl group, and a piperidine ring. A piperidine ring is attached to the central ring via a methylene group. The piperidine ring has a methyl group and a hydroxyl group. The central ring is also substituted with a methyl group, a hydroxyl group, and a piperidine ring. A piperidine ring is attached to the central ring via a methylene group. The piperidine ring has a methyl group and a hydroxyl group.</p> <p><math>C_{28}H_{35}NO_3</math> Phenochalasin D</p>	<i>Daldinia kretschmarioides</i> , <i>H. cf. kretschmarioides</i>	Antibacterial and antibiofilm	6
359	 <p>Chemical structure of Fragiformin A, a complex polyketide derivative. It features a central six-membered ring with a methyl group, a hydroxyl group, and a piperidine ring. A benzyl group is attached to the piperidine ring. The central ring is also substituted with a methyl group, a hydroxyl group, and a piperidine ring. A piperidine ring is attached to the central ring via a methylene group. The piperidine ring has a methyl group and a hydroxyl group. The central ring is also substituted with a methyl group, a hydroxyl group, and a piperidine ring. A piperidine ring is attached to the central ring via a methylene group. The piperidine ring has a methyl group and a hydroxyl group.</p> <p><math>C_{28}H_{35}NO_4</math> Fragiformin A</p>	<i>Hypoxylon fragiforme</i> , <i>H.</i> <i>howeanum</i>	Nematicidal, and antimicrobial	9
360	 <p>Chemical structure of Fragiformin A, a complex polyketide derivative. It features a central six-membered ring with a methyl group, a hydroxyl group, and a piperidine ring. A benzyl group is attached to the piperidine ring. The central ring is also substituted with a methyl group, a hydroxyl group, and a piperidine ring. A piperidine ring is attached to the central ring via a methylene group. The piperidine ring has a methyl group and a hydroxyl group. The central ring is also substituted with a methyl group, a hydroxyl group, and a piperidine ring. A piperidine ring is attached to the central ring via a methylene group. The piperidine ring has a methyl group and a hydroxyl group.</p> <p><math>C_{28}H_{35}NO_4</math></p>	<i>Hypoxylon fragiforme</i> , <i>H.</i> <i>howeanum</i>	Nematicidal, and antimicrobial	9,49

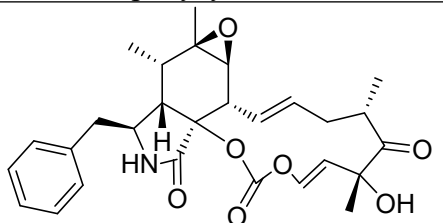
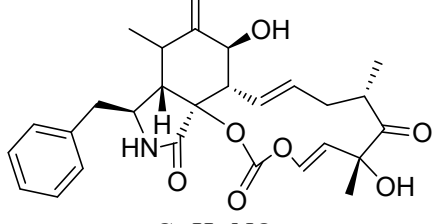
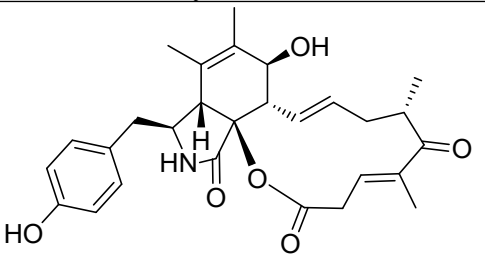
361	<p style="text-align: center;"><b>Fragiformin B</b></p>  <p style="text-align: center;"><math>C_{30}H_{39}NO_4</math> L-696,474</p>	<i>Hypoxyton fragiforme</i>	Antibacterial and antibiofilm	53
362	<p style="text-align: center;"><b>Fragiformin C</b></p>  <p style="text-align: center;"><math>C_{28}H_{35}NO_4</math></p>	<i>Hypoxyton fragiforme</i>	Actin disruption effect	6
363	<p style="text-align: center;"><b>Fragiformin D</b></p>  <p style="text-align: center;"><math>C_{28}H_{35}NO_4</math></p>	<i>Hypoxyton fragiforme</i>	Actin disruption effect	6
364	 <p style="text-align: center;"><math>C_{28}H_{35}NO_5</math></p>	<i>Hypoxyton fuscum</i> complex	Actin disruption effect	96

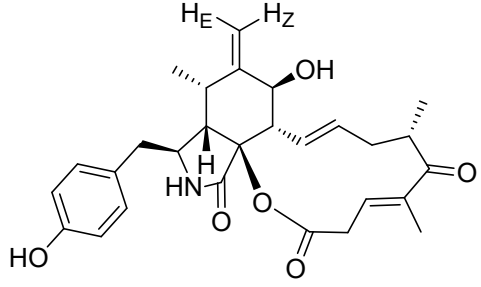
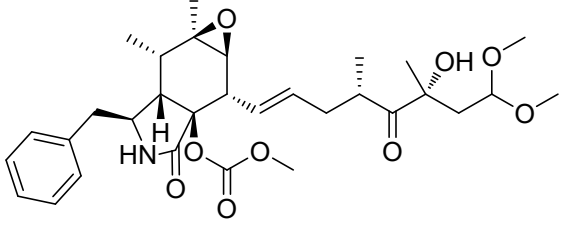
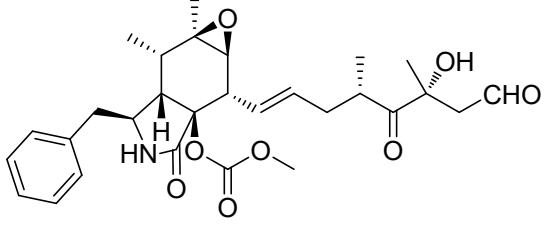
	Pseudofuscochalsin A			
365	 <p>C<sub>30</sub>H<sub>37</sub>NO<sub>5</sub> Cytochalasin C</p>	<p><i>Hypoxylon fuscum</i> complex, <i>Rosellinia sanctae-cruciana</i>, <i>Xylaria longipes</i>, <i>Xylaria</i> <i>arbuscula</i> GZS74</p>	<p>Cytotoxicity, nematicidal, antimicrobial, and actin disruption effect</p>	<p>9,56,57,96–98</p>
366	 <p>C<sub>30</sub>H<sub>37</sub>NO<sub>6</sub> Cytochalasin D</p>	<p><i>Rosellinia sanctae-cruciana</i>, <i>Xylaria longipes</i>, <i>Xylaria</i> <i>arbuscula</i> GZS74</p>	<p>Cytotoxicity</p>	<p>56,57,97,98</p>
367	 <p>C<sub>28</sub>H<sub>33</sub>NO<sub>5</sub> 19,20-epoxycytochalasin D</p>	<p><i>Rosellinia sanctae-cruciana</i>, <i>Rosellinia rickii</i> <i>Xylaria</i> <i>arbuscula</i> GZS74, <i>Xylaria cf.</i> <i>curta</i>, <i>Xylaria</i> sp, <i>Xylaria</i> <i>karyophthora</i> NRRL 66613</p>	<p>Cytotoxicity, antibacterial, antifungal, antibiofilm, actin disruption effect</p>	<p>53,57,84,97–100</p>
368		<p><i>Rosellinia sanctae-cruciana</i>, <i>Rosellinia rickii</i> <i>Xylaria</i> <i>arbuscula</i> GZS74, <i>Xylaria cf.</i> <i>curta</i>, <i>Xylaria karyophthora</i> NRRL 66613</p>	<p>Cytotoxicity, Antibacterial, antifungal, antibiofilm, actin disruption effect</p>	<p>53,57,97–100</p>

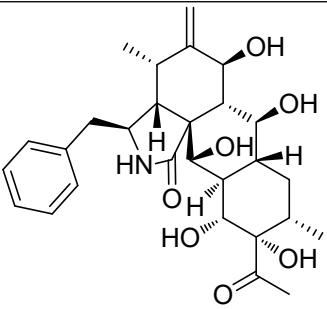
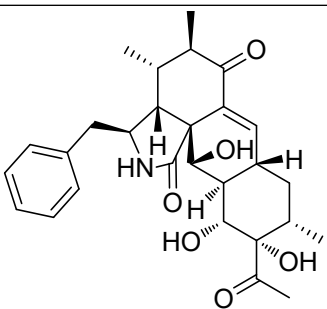
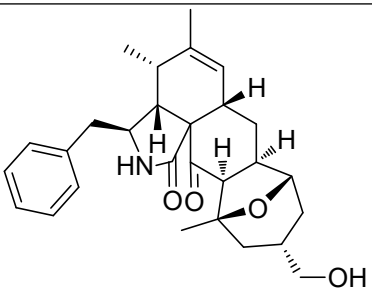
	$C_{30}H_{37}NO_7$ 19,20-epoxycytochalasin C			
369	 <p>The structure shows a complex polycyclic core with a benzyl group, an acetate group, and a 19,20-epoxide ring. Stereochemistry is indicated with wedges and dashes.</p> $C_{30}H_{39}NO_7$ Jammosporin A	<i>Rosellinia sanctae-cruciana</i>	Cytotoxicity	97,98
370	 <p>The structure is similar to 19,20-epoxycytochalasin C but features an additional epoxide ring on the side chain.</p> $C_{30}H_{37}NO_8$ 19,20-epoxycytochalasin N	<i>Rosellinia rickii</i> , <i>Xylaria karyophthora</i> NRRL 66613	Antibacterial, cytotoxicity	53,100
371	 <p>The structure is similar to 19,20-epoxycytochalasin C but lacks the acetate group at the 18-position.</p> $C_{30}H_{37}NO_6$ 18-deoxy-19,20-epoxycytochalasin Q	<i>Rosellinia rickii</i>	Antibacterial	53

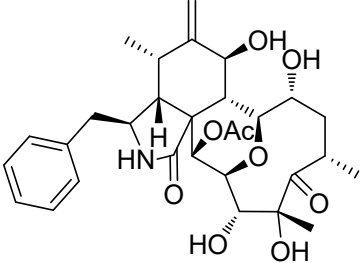
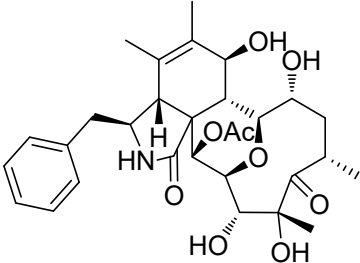
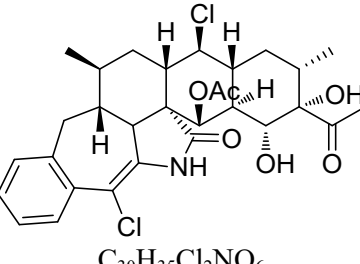
372	 <p style="text-align: center;"> <math>C_{30}H_{35}NO_7</math>            19,20-epoxycytochalasin C         </p>	<i>Rosellinia sanctae-cruciana</i>	Cytotoxicity	98
373	 <p style="text-align: center;"> <math>C_{28}H_{35}NO_5</math>            deacetyl 19,20-epoxycytochalasin C         </p>	<i>Rosellinia sanctae-cruciana</i>	Cytotoxicity	98
374	 <p style="text-align: center;"> <math>C_{30}H_{39}NO_8</math>            Cytochalasin P1         </p>	<i>Rosellinia sanctae-cruciana</i> , <i>Xylaria karyophthora</i> NRRL 66613	Cytotoxicity	98,100
375	 <p style="text-align: center;"> <math>C_{30}H_{37}NO_8</math> </p>	<i>Rosellinia sanctae-cruciana</i>	Cytotoxicity	101

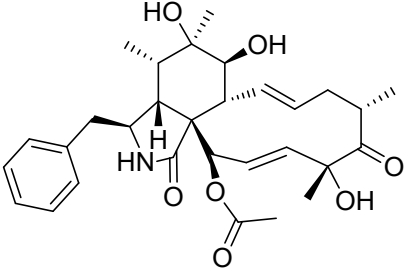
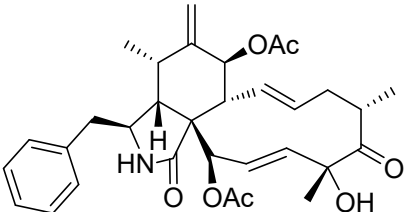
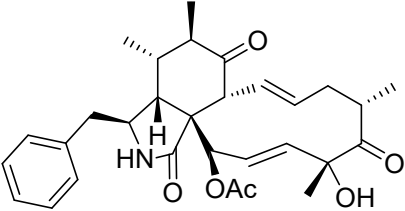


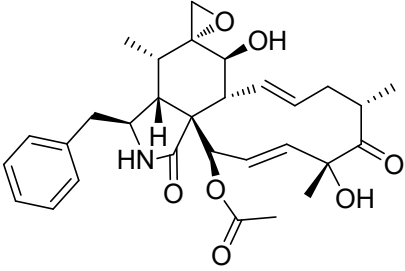
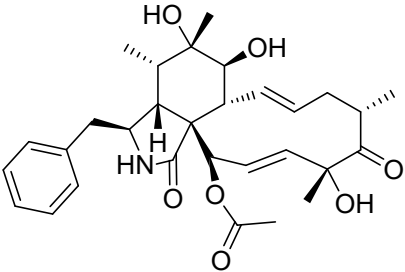
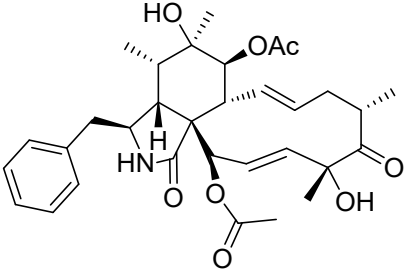
	19,20-epoxycytochalasin N1			
376	 <p>C<sub>28</sub>H<sub>33</sub>NO<sub>7</sub> Cytochalasin E</p>	<i>Dematophora necatrix</i> (MUCL 57709), <i>Xylaria</i> sp. XC16	Anti- <i>Saccharomyces pombe</i> , with MIC value of 16.8 μM, cytotoxicity, F-actin network disruptors, brine shrimp toxicity, phytotoxicity, antipathogen	91,102
377	 <p>C<sub>28</sub>H<sub>33</sub>NO<sub>7</sub> Δ<sup>6,12</sup>-cytochalasin E</p>	<i>Dematophora necatrix</i> (MUCL 57709)	Cytotoxicity, F-actin network disruptors	91
378	 <p>C<sub>28</sub>H<sub>33</sub>NO<sub>6</sub> Cytochalasins Z<sub>27</sub></p>	<i>Xylaria</i> sp. XC16	Brine shrimp toxicity, no phytotoxicity, antipathogen	102

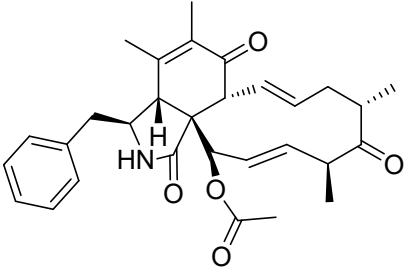
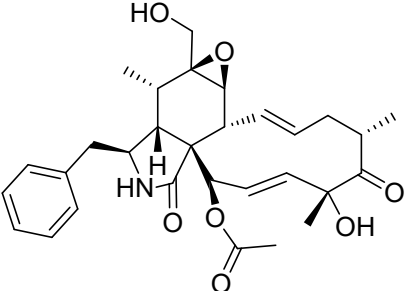
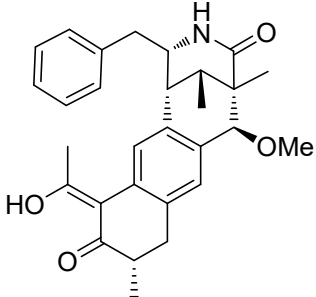
379	 <p>Chemical structure of Cytochalasin Z<sub>28</sub>, a bicyclic compound with a piperidine ring fused to a cyclohexane ring. It features a 4-hydroxybenzyl group, a hydroxyl group, and a long unsaturated side chain with a terminal methyl group. The molecular formula is C<sub>28</sub>H<sub>31</sub>NO<sub>6</sub>.</p> <p>C<sub>28</sub>H<sub>31</sub>NO<sub>6</sub> Cytochalasins Z<sub>28</sub></p>	<i>Xylaria</i> sp. XC16	Brine shrimp toxicity, no phytotoxicity, antipathogen	102
380	 <p>Chemical structure of Cytochalasin Z<sub>18</sub>, a bicyclic compound with a piperidine ring fused to a cyclohexane ring. It features a benzyl group, a methoxycarbonyl group, and a long unsaturated side chain with a terminal methyl group and a methoxy group. The molecular formula is C<sub>31</sub>H<sub>43</sub>NO<sub>9</sub>.</p> <p>C<sub>31</sub>H<sub>43</sub>NO<sub>9</sub> Cytochalasin Z<sub>18</sub></p>	<i>Xylaria</i> sp. XC16	Brine shrimp toxicity, no phytotoxicity, antipathogen	102
381	 <p>Chemical structure of <i>seco</i>-cytochalasin E, a bicyclic compound with a piperidine ring fused to a cyclohexane ring. It features a benzyl group, a methoxycarbonyl group, and a long unsaturated side chain with a terminal methyl group and an aldehyde group. The molecular formula is C<sub>29</sub>H<sub>37</sub>NO<sub>8</sub>.</p> <p>C<sub>29</sub>H<sub>37</sub>NO<sub>8</sub> <i>seco</i>-cytochalasin E</p>	<i>Xylaria</i> sp. XC16	Brine shrimp toxicity, no phytotoxicity, antipathogen	102

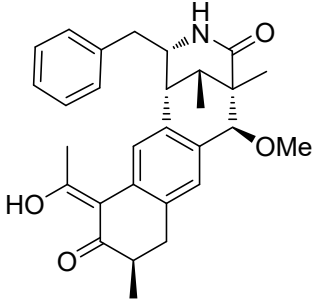
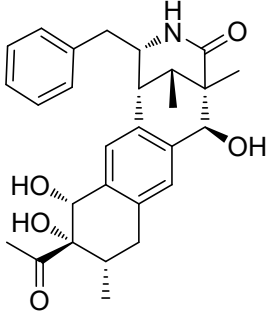
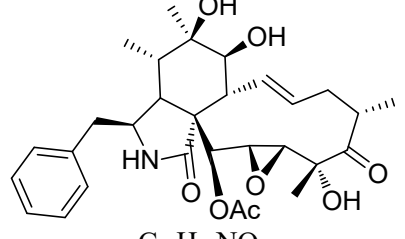
382	 <p>Chemical structure of Curtachalasin A, a complex polycyclic molecule with a benzyl group, multiple hydroxyl groups, and a methyl ketone group. The structure is shown with stereochemistry indicated by wedges and dashes.</p> <p><math>C_{28}H_{37}NO_7</math> Curtachalasin A</p>	<i>Xylaria curta</i> E10	Antifungal	103
383	 <p>Chemical structure of Curtachalasin B, similar to Curtachalasin A but with a different ring saturation and a different methyl group placement. It features a benzyl group, multiple hydroxyl groups, and a methyl ketone group.</p> <p><math>C_{28}H_{35}NO_6</math> Curtachalasin B</p>	<i>Xylaria curta</i> E10	Antifungal	103
384	 <p>Chemical structure of Curtachalasin B, a complex polycyclic molecule with a benzyl group, multiple hydroxyl groups, and a methyl ketone group. The structure is shown with stereochemistry indicated by wedges and dashes.</p> <p><math>C_{28}H_{35}NO_4</math> Curtachalasin B</p>	<i>Xylaria striata</i>	Cytotoxicity	104

385	 <p>Chemical structure of Cytochalasin D1, a bicyclic compound with a decalin core, an acetate group (OAc), a benzyl group, and multiple hydroxyl groups. The structure is shown with stereochemistry indicated by wedges and dashes.</p> <p><math>C_{30}H_{39}NO_9</math> Cytochalasin D1</p>	<i>Xylaria cf. curta</i>	Cytotoxicity	105
386	 <p>Chemical structure of Cytochalasin C1, a bicyclic compound similar to D1 but with a methyl group at the 10-position of the decalin ring. It features an acetate group (OAc), a benzyl group, and multiple hydroxyl groups.</p> <p><math>C_{30}H_{39}NO_9</math> Cytochalasin C1</p>	<i>Xylaria cf. curta</i>	Cytotoxicity	105
387	 <p>Chemical structure of Xylarichalasin A, a bicyclic compound with a decalin core, an acetate group (OAc), a benzyl group, and multiple hydroxyl groups. It also features a chlorine atom (Cl) at the 10-position of the decalin ring.</p> <p><math>C_{30}H_{35}Cl_2NO_6</math> Xylarichalasin A</p>	<i>Xylaria cf. curta</i>	Cytotoxicity	106

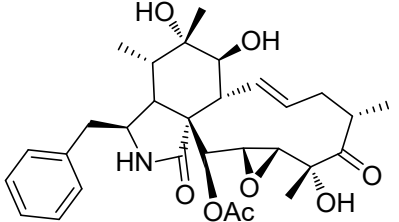
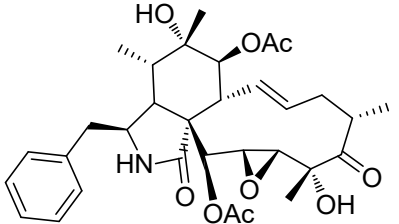
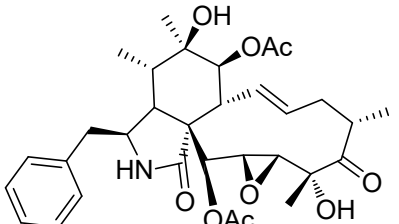
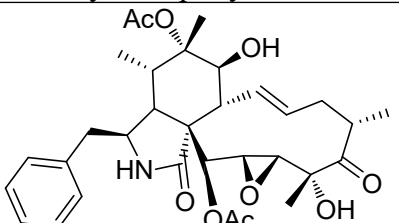
388	 <p>Chemical structure of Cytochalasin P, a bicyclic compound with a benzyl group, a hydroxyl group, and a side chain with a double bond and a methyl group. The molecular formula is <math>C_{30}H_{39}NO_7</math>.</p> <p><math>C_{30}H_{39}NO_7</math> Cytochalasin P</p>	<i>Xylaria longipes</i> , <i>Xylaria arbuscula</i> GZS74	Cytotoxicity	56,57
389	 <p>Chemical structure of 7-O-acetylcytochalasin D, similar to Cytochalasin P but with an acetyl group at the 7-position. The molecular formula is <math>C_{32}H_{39}NO_7</math>.</p> <p><math>C_{32}H_{39}NO_7</math> 7-O-acetylcytochalasin D</p>	<i>Xylaria longipes</i>	Displayed no cytotoxicity	56
390	 <p>Chemical structure of 6,7-dihydro-7-oxo-cytochalasin C, similar to Cytochalasin P but with a ketone group at the 7-position. The molecular formula is <math>C_{30}H_{37}NO_6</math>.</p> <p><math>C_{30}H_{37}NO_6</math> 6,7-dihydro-7-oxo-cytochalasin C</p>	<i>Xylaria longipes</i> , <i>Xylaria arbuscula</i> GZS74	Cytotoxicity	56,57

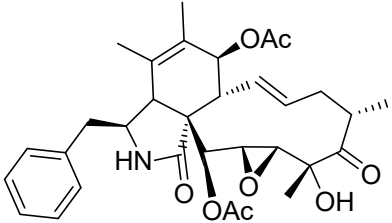
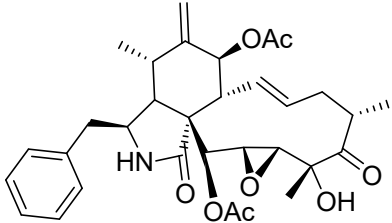
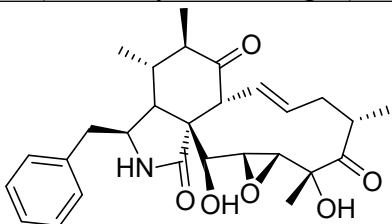
391	 <p>Chemical structure of 6,12-epoxycytochalasin D, a complex polyketide with a bicyclic core, a phenyl group, and an epoxide ring. The structure is shown with stereochemistry indicated by wedges and dashes.</p> <p><math>C_{30}H_{37}NO_7</math> 6,12-epoxycytochalasin D</p>	<i>Xylaria longipes</i>	Displayed no cytotoxicity	56
392	 <p>Chemical structure of 6-epi-cytochalasin P, a complex polyketide with a bicyclic core, a phenyl group, and a hydroxyl group at the 6-position. The structure is shown with stereochemistry indicated by wedges and dashes.</p> <p><math>C_{30}H_{39}NO_7</math> 6-epi-cytochalasin P</p>	<i>Xylaria longipes</i>	Displayed no cytotoxicity	56
393	 <p>Chemical structure of 7-O-acetylcytochalasin P, a complex polyketide with a bicyclic core, a phenyl group, and an acetyl group at the 7-position. The structure is shown with stereochemistry indicated by wedges and dashes.</p> <p><math>C_{32}H_{41}NO_8</math> 7-O-acetylcytochalasin P</p>	<i>Xylaria longipes</i>	Displayed no cytotoxicity	56

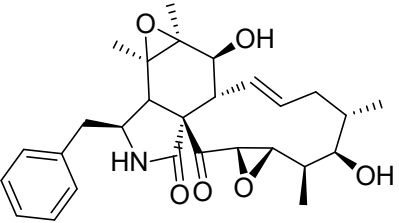
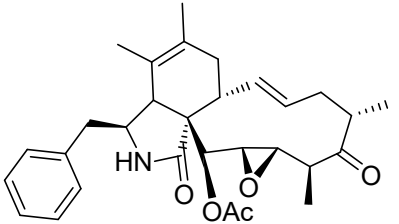
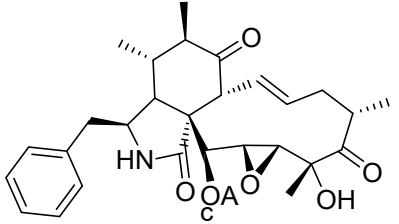
394	 <p>Chemical structure of 7-oxo-cytochalasin C, a complex polyketide with a central bicyclic core, a phenyl group, and a long side chain with multiple methyl and hydroxyl substituents.</p> <p><math>C_{30}H_{35}NO_5</math> 7-oxo-cytochalasin C</p>	<i>Xylaria longipes</i>	Displayed no cytotoxicity	56
395	 <p>Chemical structure of 12-hydroxylcytochalasin Q, similar to 7-oxo-cytochalasin C but with an additional hydroxyl group at the 12-position and a different side chain configuration.</p> <p><math>C_{30}H_{37}NO_7</math> 12-hydroxylcytochalasin Q</p>	<i>Xylaria longipes, Xylaria arbuscula</i> GZS74	Cytotoxicity	56,57
396	 <p>Chemical structure of Curtachalasin C, featuring a different bicyclic core with a hydroxyl group and a methoxy group, and a side chain with a benzyl group.</p> <p><math>C_{29}H_{33}NO_4</math> Curtachalasin C</p>	<i>Xylaria cf. curta</i>	Antifungal	107

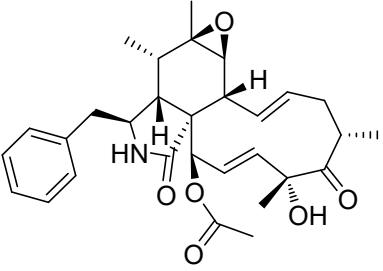
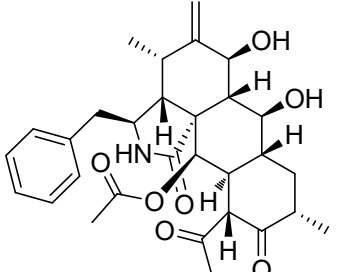
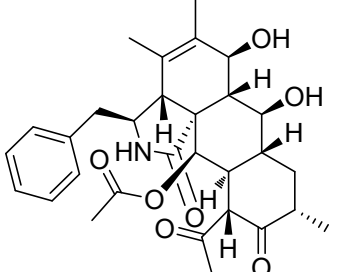
397	 <p>Chemical structure of Curtachalasin D, a complex molecule featuring a central bicyclic core with a hydroxyl group, a methyl group, and a methoxy group. It is substituted with a side chain containing a benzyl group, a secondary amide, and a methyl group.</p> <p><math>C_{29}H_{33}NO_4</math> Curtachalasin D</p>	<i>Xylaria cf. curta</i>	Not determined for any relevant biological activity	107
398	 <p>Chemical structure of Curtachalasin E, similar to Curtachalasin D but with a hydroxyl group instead of a methoxy group on the side chain and an additional hydroxyl group on the bicyclic core.</p> <p><math>C_{28}H_{33}NO_5</math> Curtachalasin E</p>	<i>Xylaria cf. curta</i>	Antifungal	107
399	 <p>Chemical structure of 19-epi-cytochalasin P1, a highly complex molecule with multiple stereocenters, hydroxyl groups, an acetate group, and a benzyl group.</p> <p><math>C_{30}H_{39}NO_8</math> 19-epi-cytochalasin P1</p>	<i>Xylaria cf. curta</i>	Cytotoxicity	99

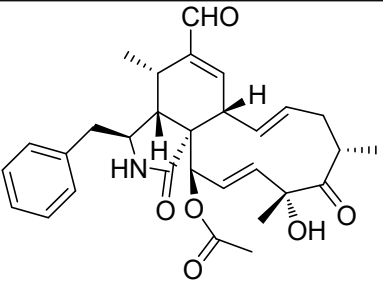
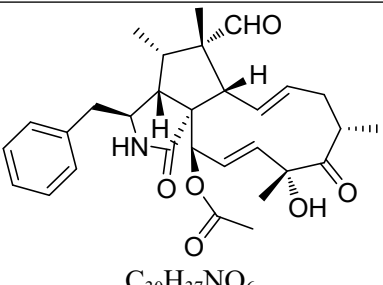
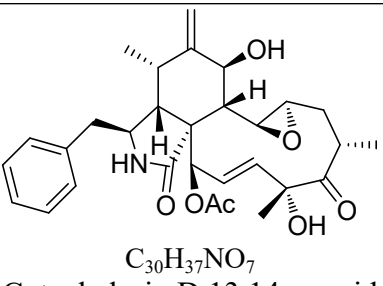


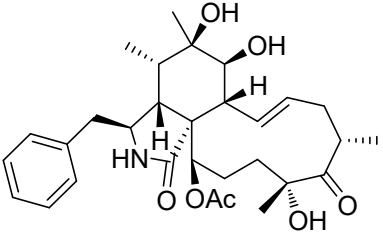
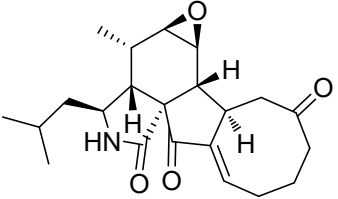
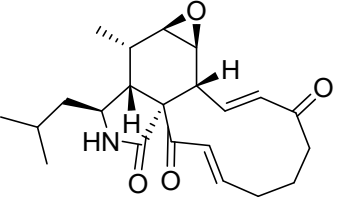
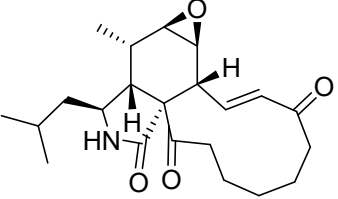
400	 <p style="text-align: center;"> <math>C_{30}H_{39}NO_8</math>          6-epi-19,20-epoxycytochalasin P       </p>	<i>Xylaria cf. curta</i> , <i>Xylaria karyophthora</i> NRRL 66613	Cytotoxicity, actin disruption effect	99,100
401	 <p style="text-align: center;"> <math>C_{32}H_{41}NO_9</math>          7-O-acetyl-6-epi-19,20-epoxycytochalasin P       </p>	<i>Xylaria cf. curta</i>	Cytotoxicity	99
402	 <p style="text-align: center;"> <math>C_{32}H_{41}NO_9</math>          7-O-acetyl 19-epi-cytochalasin P1       </p>	<i>Xylaria cf. curta</i>	Displayed no cytotoxicity	99
403	 <p style="text-align: center;"> <math>C_{32}H_{41}NO_9</math> </p>	<i>Xylaria cf. curta</i>	Displayed no cytotoxicity	99

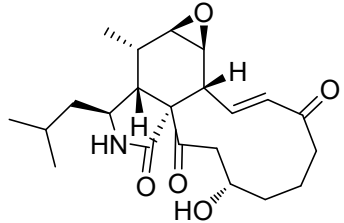
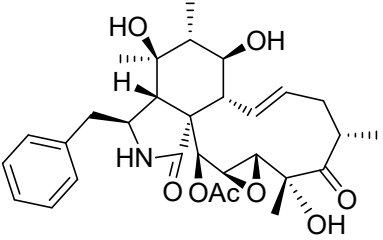
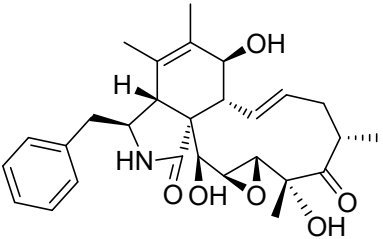
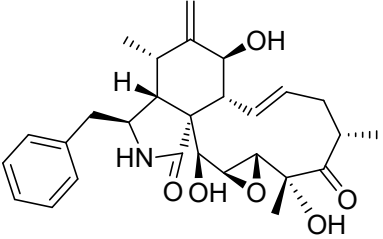
	6- <i>O</i> -acetyl-6-epi-19,20-epoxycytochalasin P			
404	 <p><math>C_{32}H_{39}NO_8</math></p> <p>7-<i>O</i>-acetyl-19,20-epoxycytochalasin C</p>	<i>Xylaria cf. curta</i>	Displayed no cytotoxicity	99
405	 <p><math>C_{32}H_{39}NO_8</math></p> <p>7-<i>O</i>-acetyl 19,20-epoxycytochalasin C (exomethylene analogue)</p>	<i>Xylaria cf. curta</i>	Cytotoxicity	99
406	 <p><math>C_{28}H_{35}NO_6</math></p> <p>deacetyl-5,6-dihydro-7-oxo-19,20-epoxycytochalasin C</p>	<i>Xylaria cf. curta</i>	Displayed no cytotoxicity	99

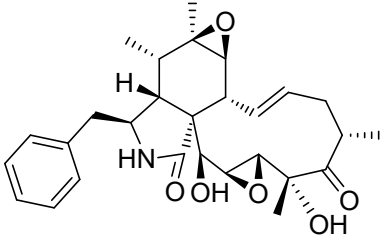
407	 <p style="text-align: center;"> <math>C_{28}H_{35}NO_6</math>            18-deoxy-21-oxo-deacetyl-19,20-epoxycytochalasin N         </p>	<i>Xylaria cf. curta</i>	Displayed no cytotoxicity	99
408	 <p style="text-align: center;"> <math>C_{30}H_{37}NO_5</math>            18-desoxy-19,20 epoxycytochalasin C         </p>	<i>Xylaria cf. curta</i>	Displayed no cytotoxicity	99
409	 <p style="text-align: center;"> <math>C_{30}H_{37}NO_7</math>            5,6-dihydro-7-oxo-19,20-epoxycytochalasin C         </p>	<i>Xylaria cf. curta, Xylaria karyophthora</i> NRRL 66613	Cytotoxicity, antibiofilm, actin disruption effect	99,100

410	 <p> <math>C_{30}H_{37}NO_6</math>            Cytochalasin Q         </p>	<p><i>Xylaria</i> sp, <i>Xylaria arbuscula</i> GZS74</p>	<p>Cytotoxicity</p>	<p>57,84</p>
411	 <p> <math>C_{30}H_{37}NO_7</math>            Arbuschalsin A         </p>	<p><i>Xylaria arbuscula</i> GZS74</p>	<p>Cytotoxicity</p>	<p>57</p>
412	 <p> <math>C_{30}H_{37}NO_7</math>            Arbuschalsin B         </p>	<p><i>Xylaria arbuscula</i> GZS74</p>	<p>Cytotoxicity</p>	<p>57</p>

413	 <p>Chemical structure of Arbuschalsin C, a complex polycyclic molecule. It features a central ring system with a benzyl group, a formyl group (CHO), a hydroxyl group (OH), and an acetate group (OAc). The structure is highly substituted and contains multiple stereocenters.</p> <p><math>C_{30}H_{35}NO_6</math> Arbuschalsin C</p>	<i>Xylaria arbuscula</i> GZS74	Cytotoxicity	57
414	 <p>Chemical structure of Arbuschalsin D, similar to Arbuschalsin C but with a different substitution pattern. It features a central ring system with a benzyl group, a formyl group (CHO), a hydroxyl group (OH), and an acetate group (OAc).</p> <p><math>C_{30}H_{37}NO_6</math> Arbuschalsin D</p>	<i>Xylaria arbuscula</i> GZS74	Cytotoxicity	57
415	 <p>Chemical structure of Cytochalasin D 13,14-epoxid, a complex polycyclic molecule. It features a central ring system with a benzyl group, a hydroxyl group (OH), and an acetate group (OAc). The structure is highly substituted and contains multiple stereocenters.</p> <p><math>C_{30}H_{37}NO_7</math> Cytochalasin D 13,14-epoxid</p>	<i>Xylaria arbuscula</i> GZS74	Cytotoxicity	57

416	 <p> <math>C_{30}H_{41}NO_7</math>            Cytochalasin O         </p>	<i>Xylaria arbuscula</i> GZS74	Cytotoxicity	57
417	 <p> <math>C_{22}H_{29}NO_4</math>            Lagambasine A         </p>	<i>Xylaria</i> sp. WH2D4	Displayed no antifungal	108
418	 <p> <math>C_{22}H_{29}NO_4</math>            Lagambasine B         </p>	<i>Xylaria</i> sp. WH2D4	Displayed no antifungal	108
419	 <p> <math>C_{22}H_{31}NO_4</math>            Lagambasine C         </p>	<i>Xylaria</i> sp. WH2D4	Displayed no antifungal	108

420	 <p> <math>C_{22}H_{31}NO_5</math>  Lagambasine D </p>	<i>Xylaria</i> sp. WH2D4	Displayed no antifungal	108
421	 <p> <math>C_{30}H_{39}NO_8</math>  karyochalasin </p>	<i>Xylaria karyophthora</i> NRRL 66613	Cytotoxicity, actin disruption effect	100
422	 <p> <math>C_{28}H_{35}NO_6</math>  Deacetyl 19,20-epoxycytochalasin C </p>	<i>Xylaria karyophthora</i> NRRL 66613	Cytotoxicity, antibiofilm, actin disruption effect	100
423		<i>Xylaria karyophthora</i> NRRL 66613	Actin disruption effect	100

	$C_{28}H_{35}NO_6$ Engleromycin			
424	 $C_{28}H_{35}NO_6$ 19,20-epoxycytochalasin Q	<i>Xylaria karyophthora</i> NRRL 66613	Actin disruption effect	100



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