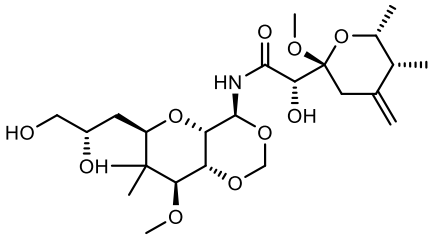
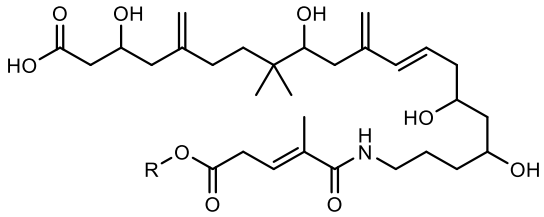
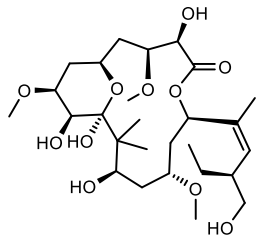
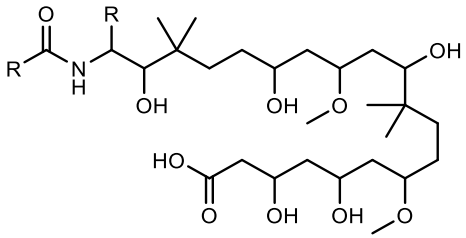
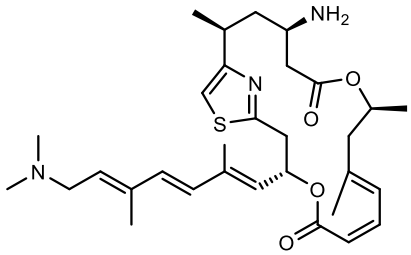
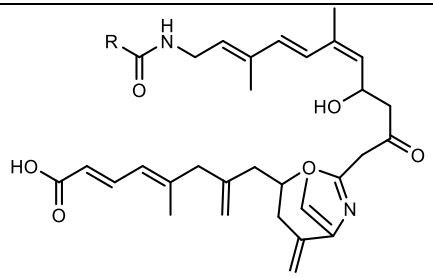
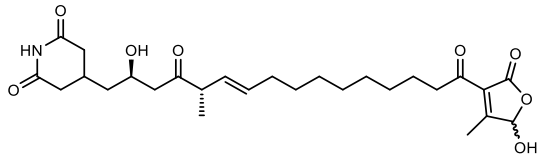
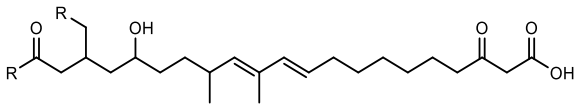
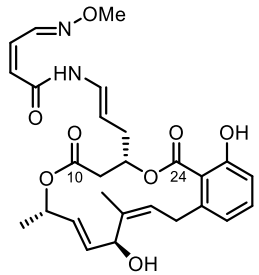
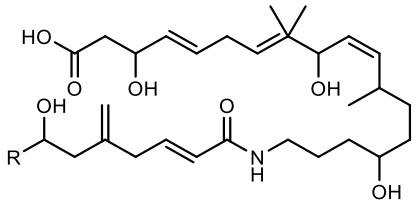
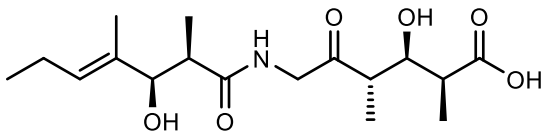
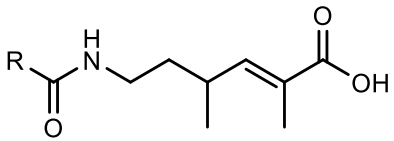
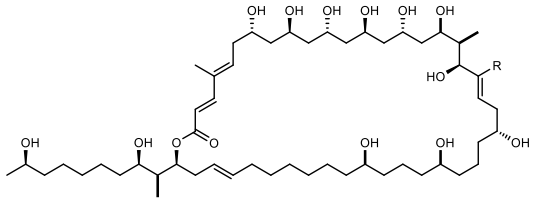
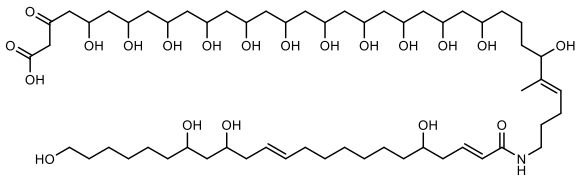
Compound	TransATor	TransPACT
		
Mycalamide A	9/10	8/8; 2 not assigned
KS1: GNAT starter	KS1: GNAT starter	KS1: GNAT starter
KS2: α-Me β-OH	KS2: β-D-OH	KS2: not assigned
KS3: exomethyl/exoester	KS3: exomethyl/exoester	KS3: exomethyl/reduced β-Me
KS4: non-elongating (hemiacetale)	KS4: non-elongating (hemiacetale)	KS4: non-elongating (hemiacetale/β-OH)
KS5: amino acid (Gly)	KS5: amino acid (Gly)	KS5: amino acids
KS6: β-D-OH	KS6: β-D-OH	KS6: not assigned
KS7: α-(di)Me β-OH	KS7: α-(di)Me β-OH	KS7: α-Me β-L-OH
KS8: pyran	KS8: pyran, furan	KS8: pyran/furan
KS9: β-L-OH	KS9: β-L-OH	KS9: β-L-OH
KS10: oxygen insertion	KS10: oxidative rearrangement	KS10: oxygen insertion
KS11: unclear	KS11: reduced	KS11: reduced/shifted double bond
KS12: unclear	KS12: double bond (*E*-configured)	KS12: double bond (*E*-configured)

KS13: unclear	KS13: non-elongating (double bond)	KS13: non-elongating (double bond)
		
Peloruside A	11/13	11/13
KS1: starter AL	KS1: amino acids	KS1: amino acids
KS2: α-Me β-OH	KS2: α-L-(di)Me β-OH	KS2: α-Me β-L-OH
KS3: non-elongating (α-Me β-AcO)	KS3: non-elongating	KS3: non-elongating (double bond)
KS4: non-elongating (α-Me double bond)	KS4: double bond (*E*-configured)	KS4: double bond (*E*-configured)
KS5: β-OH	KS5: β-D-OH	KS5: β-D-OH
KS6: non-elongating (β-OH)	KS6: non-elongating (β-D-OH)	KS6: non-elongating (β-OH)
KS7: β-OMe	KS7: β-OMe	KS7: β-OMe
KS8: α-(di)Me β-OH	KS8: α-L-(di)Me β-OH	KS8: α-Me β-L-OH
KS9: keto	KS9: completely reduced	KS9: reduced/shifted double bond
KS10: non-elongating (β-OH)	KS10: non-elongating (β-L-OH)	KS10: non-elongating (β-L-OH)

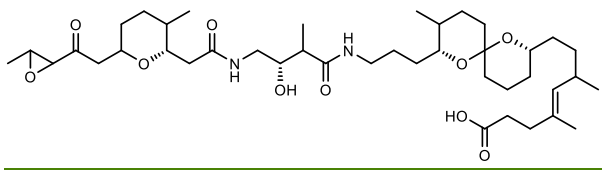
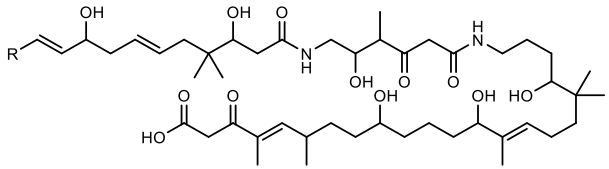
KS11: β-OMe KS12: β-OH KS13: non-elongating (β-OH)	KS11: β-OMe KS12: β-D-OH KS13: non-elongating (β-OH)	KS11: β-OMe KS12: β-D-OH KS13: non-elongating (hemiacetal/β-OH)
 Pateamine A KS1: amino acid KS2: α-Me double bond KS3: double bond KS4: β-Me double bond KS5: β-OH KS6: non-elongating KS7: thiazole KS8: β-Me KS9: β-NH_2 KS10: acetyl starter	 12/14 KS1: amino acid (Gly) KS2: α-Me double bond KS3: double bond (*E*-configured) KS4: β-OMe or β-Me double bond KS5: β-D-OH (some with α-L-Me) KS6: non-elongating (oxazole/thiazole) KS7: amino acids (oxa/thia) KS8: β-OMe or β-Me double bond KS9: pyran/furan rings KS10: acetyl starter	9/12; 2 not assigned KS1: amino acid (Gly) KS2: α-Me double bond (*E*-configured) KS3: double bond (*E*-configured) KS4: β-Me double bond (*E*-configured) KS5: not assigned KS6: non-elongating (oxazole/thiazole) KS7: oxazole/thiazole KS8: exomethyl/reduced β-Me KS9: β-OH/keto KS10: acetyl starter

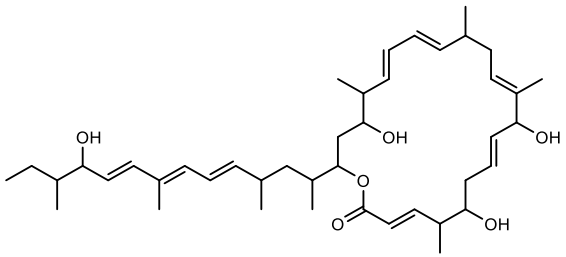
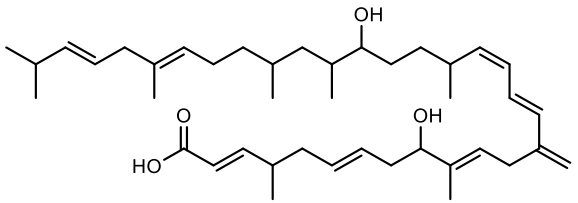
KS11: β-Me KS12: β-Me double bond KS13: non-elongating (β-Me double bond) KS14: double bond	KS11: exomethyl/exoester KS12: β-OMe or β-Me double bond KS13: non-elongating (bimodule β-D-OH) KS14: double bond (*Z*-configured)	KS11: not assigned KS12: β-Me double bond (*E*-configured) KS13: non-elongating (bimodule β-OH) KS14: double bond (*Z*-configured)
 Gladiofungin A	 8/10	7/9; 1 not assigned
KS1: starter AMT KS2: double bond KS3: glutarimide KS4: β-OH KS5: α-Me keto KS6: α-Me double bond KS7: double bond	KS1: unusual starter (AMT/Succinate) KS2: non-elongating (double bond) KS3: vinylogous chain branching (including glutarimides) KS4: β-D-OH KS5: α-Me reduced/keto/D-OH KS6: α-Me double bond KS7: double bond (mostly *E*-configured) KS8: completely reduced	KS1: unusual starter (AMT) KS2: non-elongating (double bond before branching) KS3: vinylogous chain branching (including glutarimides) KS4: not assigned KS5: α-Me reduced/β-keto/β-OH KS6: α-Me double bond (*E*-configured) KS7: double bond (*E*-configured) KS8: reduced/shifted double bond

KS8: completely reduced KS9: completely reduced KS10: keto	KS9: completely reduced KS10: completely reduced	KS9: reduced/shifted double bond KS10: reduced/shifted double bond
 Lobatamide A KS1: non-elongating (amino acid) KS2: non-elongating (oxime) KS3: methylated oxime KS4: non-elongating (β-OH) KS5: amino acids (Gly) KS6: shifted double bond KS7: β-OH KS8: α-Me and oxygen insertion (BVMO) KS9: double bond	 7/13 KS1: non-elongating (α-Me completely reduced or shifted double bond) KS2: starters or β-OH KS3: exomethyl/exoester KS4: non-elongating (bimodule β-D-OH) KS5: amino acids KS6: completely reduced KS7: β-L-OH KS8: α-Me reduced/keto/D-OH KS9: double bond (*E*-configured)	7/11; 2 not assigned KS1: non-elongating KS2: non-elongating (reduced/β-OH) KS3: exomethyl/reduced β-Me KS4: non-elongating (bimodule β-OH) KS5: amino acids KS6: reduced/shifted double bond KS7: not assigned KS8: α-Me reduced/β-keto/β-OH KS9: double bond (*E*-configured)

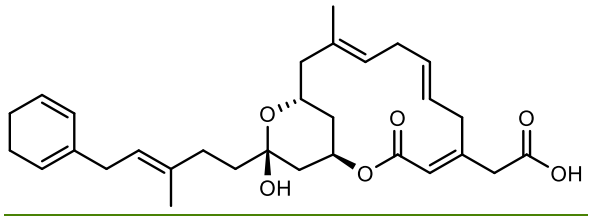
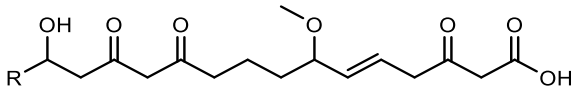
KS10: α-Me β-OH KS11: shifted double bond KS12: β-keto (iterative) KS13: β-OH	KS10: α-L-(di)Me β-OH KS11: shifted double bond (some with α-Me) KS12: β-keto or double bond KS13: *cis*-AT PKS	KS10: α-Me β-L-OH KS11: shifted double bond KS12: β-keto KS13: not assigned
 Alpiniamide A	 3/3	2/2; 1 not assigned
KS1: amino acid (Gly) KS2: α-Me keto KS3: non-elongating (α-Me β-OH)	KS1: amino acids KS2: α-Me reduced/keto/D-OH KS3: non-elongating (α-Me completely reduced or double bond)	KS1: not assigned KS2: α-Me reduced/β-keto/β-OH KS3: non-elongating
 Lacunalides	 22/25	16/18; 7 not assigned

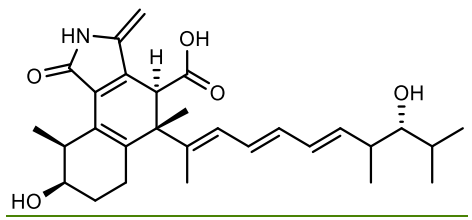
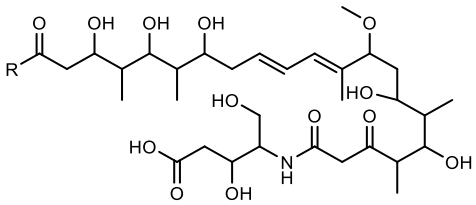
KS1: acetyl starter	KS1: various starters	KS1: acetyl/aromatic starter
KS2: β-OH	KS2: β-D-OH (some with α-L-Me)	KS2: β-OH/double bond (*E*-configure)
KS3: completely reduced	KS3: completely reduced	KS3: reduced/shifted double bond
KS4: completely reduced	KS4: completely reduced	KS4: reduced/shifted double bond
KS5: α-Me β-OH	KS5: β-D-OH (some with α-L-Me)	KS5: α-Me β-OH
KS6: β-OH	KS6: β-D-OH (some with α-L-Me)	KS6: α-Me β-OH
KS7: *E*-double bond	KS7: double bond (mostly *E*-configured)	KS7: mainly double bond (*E*-configured)
KS8: completely reduced	KS8: completely reduced	KS8: reduced/shifted double bond
KS9: completely reduced	KS9: completely reduced	KS9: reduced/shifted double bond
KS10: completely reduced	KS10: completely reduced	KS10: reduced/shifted double bond
KS11: β-OH	KS11: β-D-OH	KS11: β-OH/double bond (*E*-configure)
KS12: completely reduced	KS12: completely reduced	KS12: reduced/shifted double bond
KS13: β-OH	KS13: β-D-OH (some with α-L-Me)	KS13: not assigned
KS14: completely reduced	KS14: completely reduced	KS14: reduced/shifted double bond
KS15: β-OH	KS15: β-D-OH	KS15: not assigned
KS16: α-Me *E*-double bond	KS16: β-D-OH (some with α-L-Me)	KS16: not assigned
KS17: α-Me β-OH	KS17: β-D-OH (some with α-L-Me)	KS17: not assigned
KS18: β-OH	KS18: β-L-OH	KS18: β-L-OH
KS19: β-OH	KS19: β-D-OH (some with α-L-Me)	KS19: β-D-OH

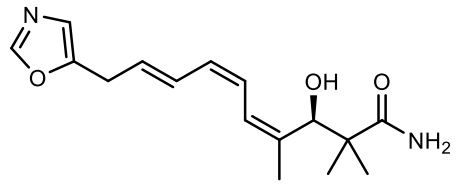
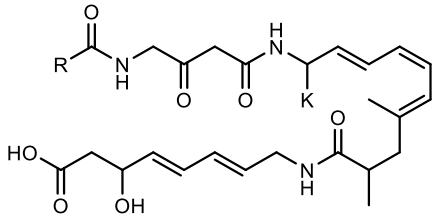
KS20: β-OH KS21: β-OH KS22: β-OH KS23: β-OH KS24: α-Me *E*-double bond KS25: non-elongating (α-Me *E*-double bond)	KS20: β-L-OH KS21: β-D-OH KS22: β-L-OH KS23: β-D-OH (some with α-L-Me) KS24: β-D-OH (some with α-L-Me) KS25: β-D-OH	KS20: β-L-OH KS21: not assigned KS22: β-L-OH KS23: not assigned KS24: not assigned KS25: non-elongating (reduced/β-OH)
		
Lagriamide	15/18	12/15; 3 not assigned
KS1: GNAT starter KS2: double bond KS3: β-OH KS4: double bond KS5: α-Me reduced KS6: non-elongating (β-OH) KS7: amino acid (Gly)	KS1: *cis*-AT PKS KS2: double bond (mostly *E*-configured) KS3: β-L-OH KS4: double bond (mostly *E*-configured) KS5: α-Me KS6: non-elongating (double bond) KS7: amino acids	KS1: *cis*-AT PKS-like KS2: double bond (*E*-configured) KS3: β-L-OH KS4: double bond (*E*-configured) KS5: α-Me reduced/β-keto/β-OH KS6: non-elongating (double bond) KS7: not assigned

KS8: α-Me β-OH A: Gly KS9: amino acid (Gly) KS10: completely reduced KS11: α-Me β-OH KS12: completely reduced KS13: β-OH KS14: β-OH KS15: completely reduced KS16: β-OH KS17: α-Me double bond KS18: non-elongating (reduced)	KS8: α-L-Me β-OH KS9: amino acids KS10: completely reduced KS11: α-L-(di)Me β-OH KS12: completely reduced KS13: α-Me double bond KS14: β-D-OH KS15: completely reduced KS16: β-L-OH KS17: α-Me reduced/keto/D-OH KS18: α-Me double bond	KS8: α- Me β-L-OH KS9: not assigned KS10: reduced/shifted double bond KS11: α-Me β-L-OH KS12: reduced/shifted double bond KS13: α-Me double bond (*E*-configured) KS14: not assigned KS15: reduced/shifted double bond KS16: β-L-OH KS17: α-Me reduced/β-keto/β-OH KS18: α-Me double bond (*E*-configured)
 Macrobrevin KS1: starter	 17/20 KS1: various starters	17/20 KS1: acetyl/aromatic starter

KS2: α-Me	KS2: α-Me reduced/keto/D-OH	KS2: α-Me reduced/β-keto/β-OH
KS3: β-OH	KS3: double bond (mostly *E*-configured)	KS3: mainly double bond (*E*-configured)
KS4: α-Me double bond	KS4: α-Me reduced/keto/D-OH	KS4: α-Me reduced/β-keto/β-OH
KS5: non-elongating (double bond)	KS5: non-elongating (mostly α-Me double bond)	KS5: non-elongating (α-Me double bond (*E*-configured))
KS6: shifted double bond	KS6: shifted double bond (some with α-Me)	KS6: shifted double bond
KS7: α-Me shifted double bond	KS7: α-Me reduced/keto/D-OH	KS7: α-Me reduced/β-keto/β-OH
KS8: α-Me	KS8: α-Me reduced/keto/D-OH	KS8: α-Me reduced/β-keto/β-OH
KS9: β-OH	KS9: β- D-OH (some with α-L-Me)	KS9: β-D-OH
KS10: α-Me β-OH	KS10: α-Me reduced/keto/D-OH	KS10: α-Me reduced/β-keto/β-OH
KS11: double bond	KS11: double bond (mostly *E*-configured)	KS11: mainly double bond (*E*-configured)
KS12: double bond	KS12: double bond (mostly *E*-configured)	KS12: mainly double bond (*E*-configured)
KS13: β-Me	KS13: *cis*-AT PKS	KS13: *cis*-AT PKS-like
KS14: β-Me	KS14: exomethyl/exoester	KS14: exomethyl/reduced β-Me
KS15: α-Me double bond	KS15: α-Me double bond (*E*-configured)	KS15: α-Me double bond (*E*-configured)
KS16: β-OH	KS16: β-L-OH	KS16: β-L-OH
KS17: non-elongating (β-OH)	KS17: non-elongating (bimodule β-D-OH)	KS17: non-elongating (bimodule β-OH)
KS18: shifted double bond	KS18: double bond (*Z*-configured)	KS18: double bond (*Z*-configured)
KS19: α-Me β-OH	KS19: α-Me reduced/keto/D-OH	KS19: α-Me reduced/β-keto/β-OH
KS20: non-elongating (double bond)	KS20: non-elongating (double bond)	KS20: non-elongating (double bond)

		
Ripostatin	8/9	5/6; 3 not assigned
KS1: *cis*-AT PKS (aromatic starter)	KS1: *cis*-AT PKS	KS1: *cis*-AT PKS-like
KS2: *cis*-AT PKS	KS2: *cis*-AT PKS	KS2: not assigned
KS3: completely reduced	KS3: *cis*-AT PKS	KS3: not assigned
KS4: keto	KS4: β-D-OH or β-keto	KS4: β-OH/keto
KS5: β-OH	KS5: β-D-OH or β-keto	KS5: β-OH/keto
KS6: β-OH	KS6: various specificities	KS6: β-OH/keto
KS7: β-Me double bond	KS7: β-OMe or β-Me double bond	KS7: not assigned
KS8: completely reduced	KS8: bimodule (β-D-OH)	KS8: non-elongating (bimodule β-OH)
KS9: shifted double bond	KS9: shifted double bond (some with α-Me)	KS9: shifted double bond

		
Pyxipyrrolone A	6/9	5/9, 1 not assigned, 1 new functionality
KS1: starter	KS1: acetyl starter	KS1: acetyl starter
KS2: starter	KS2: β-D-OH or β-keto	KS2: β-OH/keto
KS3: skipped module	KS3: α-L-Me reduced or OH	KS3: reduced α-Me/shifted double bond α-Me
KS4: α-Me β-OH	KS4: α-L-Me reduced or OH	KS4: β-keto
KS5: unknown	KS5: β-D-OH	KS5: not assigned
KS6: double bond	KS6: double bond (*E*-configured)	KS6: double bond
KS7: α-Me double bond	KS7: α-Me double bond	KS7: α-Me double bond (*E*-configured)
KS8: β-branching	KS8: β-OMe or β-Me double bond	KS8: β-Me
KS9: double bond	KS9: α-L-Me reduced or OH	KS9: reduced α-Me/shifted double bond α-Me
KS10: α-Me keto	KS10: α-Me shifted double bond or OH	KS10: α-Me β-OH
KS11: amino acid (Ser)	KS11: amino acids	KS11: amino acids

		
Phthoxazolin	9/10	9/10
KS1: Gly	KS1: amino acids	KS1: amino acids
KS2: keto	KS2: amino acids	KS2: amino acids
KS3: double bond	KS3: double bond	KS3: double bond
KS4: double bond	KS4: double bond	KS4: double bond (*Z*-configured)
KS5: α-Me double bond	KS5: α-Me double bond	KS5: α-Me double bond (*E*-configured)
KS6: amino acid	KS6: amino acids (Gly)	KS6: amino acids (Gly)
KS7: double bond	KS7: double bond (*E*-configured)	KS7: double bond
KS8: non-elongating (β-OH)	KS8: non-elongating (bimodule β-D-OH)	KS8: non-elongating (bimodule β-OH)
KS9: double bond	KS9: double bond (mostly *E*-configured)	KS9: double bond (*E*-configured)
KS10: non-elongating (double bond)	KS10: non-elongating (double bond)	KS10: non-elongating (double bond)
	Total: 127/154 (82.5%)	108/133 (81.2%)