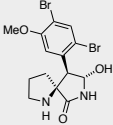
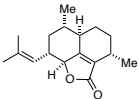
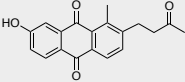

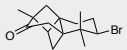
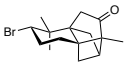
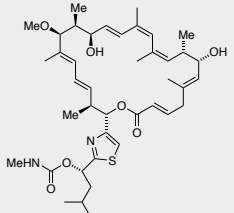
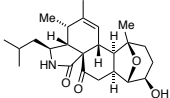
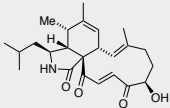
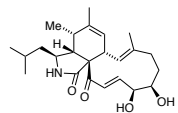


#	Name	Structure	Year	Class	Remarks	DOI link
1	amathaspiramide F		2002	alkaloid	natural enantiomer	https://www.ncbi.nlm.nih.gov/pubmed/12458537
2	amphilectolide		2013	polyketide	natural enantiomer	https://pubs.acs.org/doi/10.1021/ol403156r
3	anthrakunthone		2008	terpenoid		https://pubs.acs.org/doi/abs/10.1021/ia803504z
4	aplydactone		2016	terpenoid	racemate	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201604102

5	aplydactone		2016	terpenoid	racemate biomimetic	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201604102
6	aplydactone, iso-epi-		2016	terpenoid	anticipated NP	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201604102
7	archazolid B		2007	polyketide	natural enantiomer	https://pubs.acs.org/doi/abs/10.1021/ja0733033
8	aspergillin PZ			polyketide	natural enantiomer biomimetic	https://onlinelibrary.wiley.com/doi/epdf/10.1002/anie.201809703
9	aspochalasin B			polyketide	natural enantiomer	https://onlinelibrary.wiley.com/doi/epdf/10.1002/anie.201809703

10 aspochalasin D

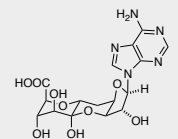


polyketide

natural
enantiomer

<https://onlinelibrary.wiley.com/doi/epdf/10.1002/anie.201809703>

11 aureonuclemycin



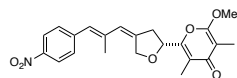
2013

nucleoside

natural
enantiomer

<https://pubs.acs.org/doi/10.1021/lo401706r>

12 aureothin



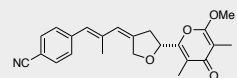
2005

polyketide

racemate

<https://pubs.acs.org/doi/abs/10.1021/ol050703r>

13 aureonitrile



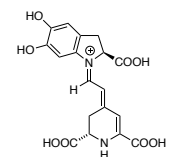
2005

polyketide

racemate

<https://pubs.acs.org/doi/abs/10.1021/ol050703r>

14 betanidine

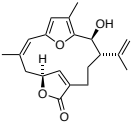
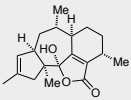
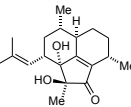



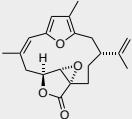
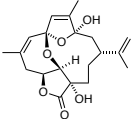
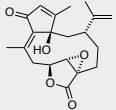
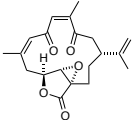
2014

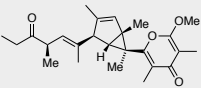
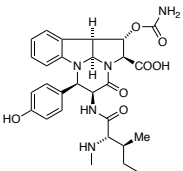
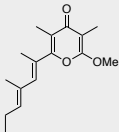
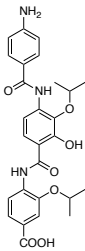
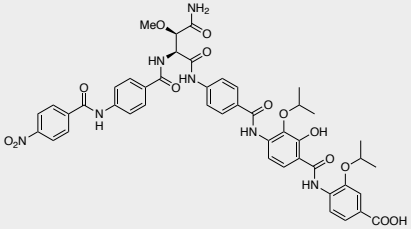
alkaloid

natural
enantiomer
biomimetic

<https://onlinelibrary.wiley.com/doi/abs/10.1002/chem.201403436>

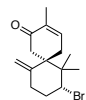
15	bipinnatin J		2005	terpenoid	natural enantiomer	https://pubs.acs.org/doi/10.1021/ol062581a
16	bipinnatin J		2005	terpenoid	racemate	https://pubs.acs.org/doi/abs/10.1021/ol052922l
17	caribenol A		2017	terpenoid	natural enantiomer	https://pubs.acs.org/doi/10.1021/acs.7b00234
18	caribenol B		2017	terpenoid	natural enantiomer	https://pubs.acs.org/doi/10.1021/acs.7b00234
19	carinataine A		2017	alkaloid	natural enantiomer	https://pubs.acs.org/doi/10.1021/acs.joc.7b00908

20	chamigrene, 10-bromo- β -		2016	terpenoid	racemate	https://pubs.acs.org/doi/10.1021/acscentsci.6b00293
21	coraloidolide A		2010	terpenoid	racemate	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.200906126
22	coraloidolide B		2010	terpenoid	racemate biomimetic	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.200906126
23	coraloidolide C		2010	terpenoid	racemate biomimetic	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.200906126
24	coraloidolide E		2010	terpenoid	racemate	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.200906126

25	crispatene		2004	polyketide	natural enantiomer	https://doi.org/10.1073/pnas.0401787101
26	crocagin		2017	RIPP	natural enantiomer	https://pubs.acs.org/doi/abs/10.1021/ol047542w
27	cyercene A		2005	polyketide	achiral	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201705387
28	cystobactamid 507		2017	miscellaneous	achiral	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201705387
29	cystobactamide 909-2 (revised structure)		2017	miscellaneous	structure reassigned	https://pubs.acs.org/doi/10.1021/acscentsci.6b00293

30

dactylone



2016

terpenoid

racemate

<https://pubs.acs.org/doi/10.1021/acscentsci.6b00293>

31

dactylone, 8-epi-



2016

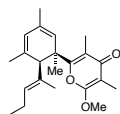
terpenoid

racemate

<https://pubs.acs.org/doi/abs/10.1021/ol051887c>

32

deoxytridachione



2005

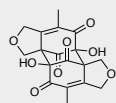
polyketide

racemate

<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201407088>

33

dibefurin



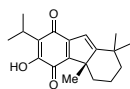
2014

polyketide

achiral
biomimetic
<https://pubs.acs.org/doi/abs/10.1021/ja062505g>

34

dichroanone

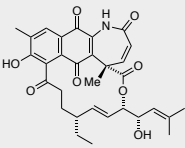
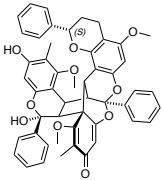
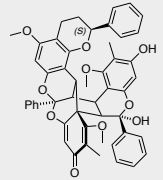
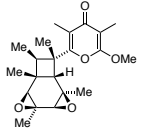
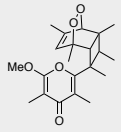


2016

terpenoid

racemate

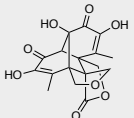
<https://pubs.acs.org/doi/abs/10.1021/ja062505g>

35	divergolide I		2018	polyketide	natural enantiomer biomimetic	https://pubs.acs.org/doi/abs/10.1021/jacs.7b13092
36	dragonbloodin A1		2017	phenylpropanoid	racemate biomimetic structure reassigned	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201705390
37	dragonbloodin A2		2017	phenylpropanoid	racemate biomimetic structure reassigned	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201705390
38	elysiapyrone A		2005	polyketide	racemate biomimetic	https://pubs.acs.org/doi/abs/10.1021/ol050831f
39	elysiapyrone A precursor		2007	polyketide	anticipated NP	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.200500488

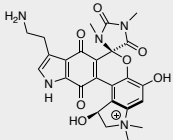
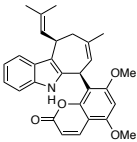
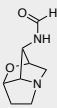
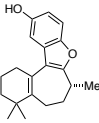
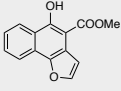
40 elysiapyrone A, 14-methyl  2005 polyketide anticipated NP <https://pubs.acs.org/doi/abs/10.1021/ol050831f>

41 elysiapyrone B  2005 polyketide racemate biomimetic <https://pubs.acs.org/doi/abs/10.1021/ol050831f>

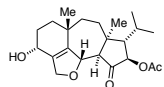
42 elysiapyrone B precursor  1905 polyketide anticipated NP <https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.200500488>

43 epicolactone  2015 polyketide natural racemate biomimetic <https://www.nature.com/articles/nchem.2336>

44 exiguamine A  2008 alkaloid natural racemate biomimetic <https://www.nature.com/articles/nchembio.107>

45	exiguamine B		2008	alkaloid	natural racemate biomimetic anticipated NP	https://www.nature.com/articles/nchembio.107
46	exotine B		2018	miscellaneous	racemate	https://pubs.acs.org/doi/10.1021/acs.orglett.8b01817
47	formyl-loline		2011	alkaloid	natural enantiomer	http://www.nature.com/articles/nchem.1072
48	frondosin B		2006	terpenoid	unnatural enantiomer	https://www.sciencedirect.com/science/article/pii/S0040402004011779?via%3Dihub
49	furomollogin		2014	meroterpenoid		https://pubs.acs.org/doi/abs/10.1021/ja042375g

50 guanacastepene E



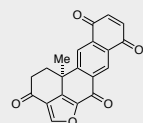
2005

terpenoid

natural
enantiomer

<https://pubs.acs.org/doi/abs/10.1021/ja0660507>

51 halenaquinone



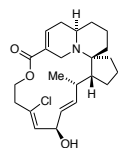
2008

terpenoid

natural
enantiomer

<https://pubs.acs.org/doi/abs/10.1021/ja803504z>

52 halichlorine



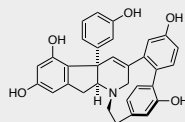
1999

polyketide

natural
enantiomer
DT postdoc

[https://doi.org/10.1002/\(SICI\)1521-3773\(19991203\)38:23<3542::AID-ANIE3542>3.0.CO;2-I](https://doi.org/10.1002/(SICI)1521-3773(19991203)38:23<3542::AID-ANIE3542>3.0.CO;2-I)

53 haouamine B
(assigned structure)



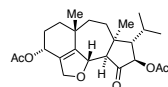
2012

alkaloid

structure
reassigned

<https://pubs.acs.org/doi/10.1021/ja301326k>

54 heptemerone B

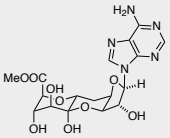
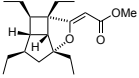
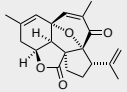
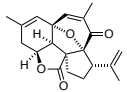
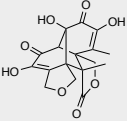


2005

terpenoid

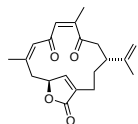
natural
enantiomer

<https://pubs.acs.org/doi/abs/10.1021/ja0660507>

55	herbicidin C		2013	nucleoside	natural enantiomer	https://pubs.acs.org/doi/10.1021/lo401706r
56	hippolachnin A		2017	polyketide	racemate	https://pubs.acs.org/doi/10.1021/acs.7b06815
57	intricarene		2014	terpenoid	racemate	http://www.nature.com/articles/ncomms6597
58	intricarene		2006	terpenoid	racemate	https://pubs.acs.org/doi/10.1021/ol062581o
59	isoepicolactone		2015	polyketide	natural racemate biomimetic anticipated NP	https://www.nature.com/articles/nchem.2336

60

isoepilophodione B



2011

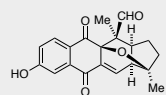
terpenoid

racemate

<https://pubs.acs.org/doi/abs/10.1021/ol062581o>

61

isopinnatal



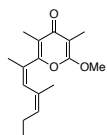
2005

meroterpenoid

racemate
biomimetic
<https://pubs.acs.org/doi/10.1021/ja050092v>

62

isoplacidene A



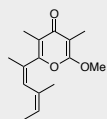
2005

polyketide

racemic
and
enantiomeric
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63

isoplacidene B



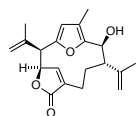
2005

polyketide

<https://pubs.acs.org/doi/abs/10.1021/ol047542w>

64

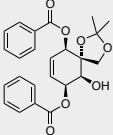

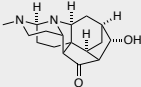
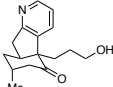
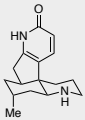
kallolide A



2014

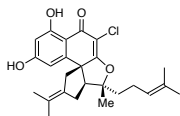
terpenoid

racemate
biomimetic
<http://www.nature.com/articles/ncomms6597>

65	kweichowenol A			miscellaneous	natural enantiomer	in press
66	loline		2011	alkaloid	natural enantiomer	http://www.nature.com/articles/nchem.1072
67	lycopalhine A		2016	alkaloid	natural enantiomer	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201509602
68	lycopladine A		2017	alkaloid	natural enantiomer	https://pubs.acs.org/doi/10.1021/acs.joc.7b00908
69	lycoposerramine R		2016	alkaloid	natural enantiomer	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201610021

70

merochlorine B



2014

meroterpenoid

racemate
biomimetic
<https://pubs.acs.org/doi/abs/10.1021/ol500800z>

71

mesitylene



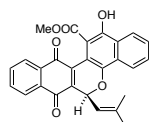
2006

polyketide

through
polyene
splicing
biomimetic
<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.200602840>

72

microphyllaquinone



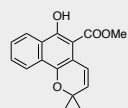
2005

meroterpenoid

racemate
biomimetic
<https://pubs.acs.org/doi/abs/10.1021/ol052472u>

73

mollugin



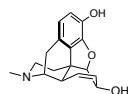
2005

meroterpenoid

<https://pubs.acs.org/doi/abs/10.1021/ol052472u>

74

morphine

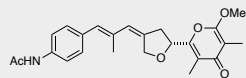


1996

alkaloid

formal
synthesis
DT thesis
<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.199628301>

75

N-acetylaureothamine

2005

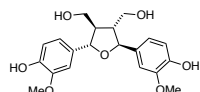
polyketide

racemate

<https://pubs.acs.org/doi/abs/10.1021/ol050703r>

76

neo-olivil



2018

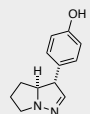
phenylpropanoid

racemate

<https://onlinelibrary.wiley.com/doi/pdf/10.1002/anie.201808234>

77

newbouldine



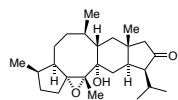
2010

alkaloid

enantiomel.
NP is a racemate
<https://www.sciencedirect.com/science/article/pii/S0040402010008392?via%3Dihub>

78

nitidasin



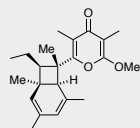
2014

terpenoid

natural
enantiomer
<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201403605>

79

ocellapyrone A

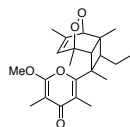


2007

polyketide

racemate
biomimetic
<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.200500488>

80 ocellapyrone B



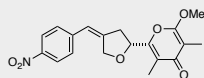
2007

polyketide

racemate
biomimetic

<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.200500488>

81 orinocin



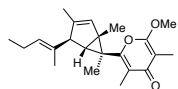
2006

polyketide

racemate

<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.200602840>

82 photodeoxytridachione



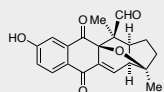
2003

polyketide

racemate

<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.200390158>

83 pinnatal



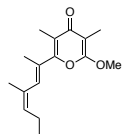
2003

meroterpenoid

racemate
biomimetic

<https://pubs.acs.org/doi/abs/10.1021/ja036026i>

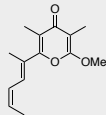
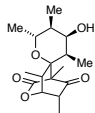
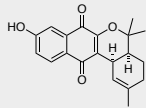
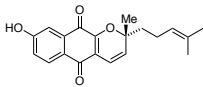
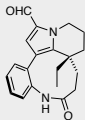
84 placidene A




2005

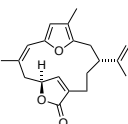
polyketide

<https://pubs.acs.org/doi/abs/10.1021/ol047542w>

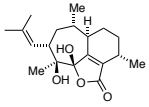
85	placidene B		2005	polyketide		https://pubs.acs.org/doi/abs/10.1021/ol047542w
86	portentol		2015	polyketide	natural enantiomer	https://pubs.acs.org/doi/abs/10.1021/jacs.5b10009
87	pyranokunthone A		2003	meroterpenoid	racemate biomimetic	https://pubs.acs.org/doi/10.1021/ja050092v
88	pyranokunthone B		2008	meroterpenoid	racemate biomimetic	https://pubs.acs.org/doi/10.1021/ja050092v
89	rhazinal		2009	alkaloid	racemate	https://pubs.acs.org/doi/abs/10.1021/jc801791j

90 rhazinilam  2012 alkaloid racemate <https://pubs.acs.org/doi/abs/10.1021/ol052033v>

91 rubicordifolin  2008 meroterpenoid racemate biomimetic <https://pubs.acs.org/doi/abs/10.1021/ja042375g>

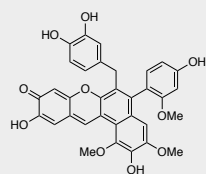
92 rubifolide  2011 terpenoid racemate <https://pubs.acs.org/doi/abs/10.1021/ol062581o>

93 rubioncolin B  2008 meroterpenoid racemate biomimetic <https://pubs.acs.org/doi/abs/10.1021/ja803498r>

94 sandresolide B  2013 terpenoid natural enantiomer <https://pubs.acs.org/doi/10.1021/ol403156r>

95

santalin A



2013

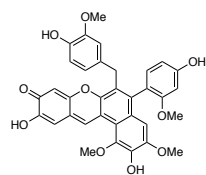
phenylpropanoid

biomimetic

<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201302317>

96

santalin B



2013

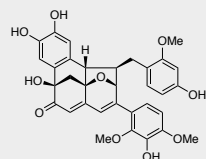
phenylpropanoid

biomimetic

<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201302317>

97

santalin Y



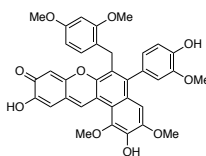
2015

phenylpropanoid

natural
racemate
biomimetic
<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201302317>

98

santarubin A



2013

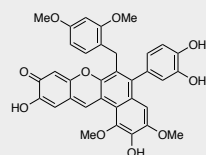
phenylpropanoid

biomimetic

<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201302317>

99

santarubin B

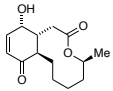
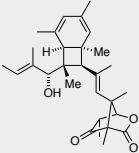
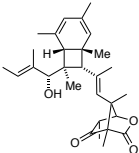
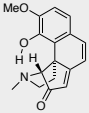
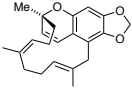


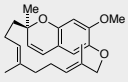
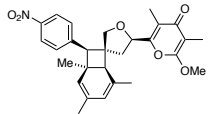
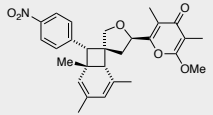
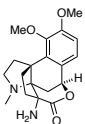
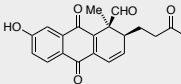
2013

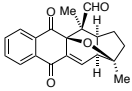
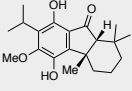
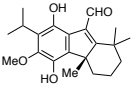
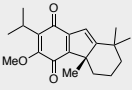

phenylpropanoid

biomimetic

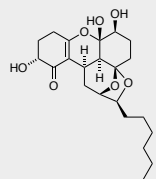
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100	Sch-642503		2007	polyketide	natural enantiomer	https://pubs.acs.org/doi/abs/10.1021/ol070173u
101	shimalactone A		2007	polyketide	natural enantiomer biomimetic	https://pubs.acs.org/doi/abs/10.1021/ol702806v
102	shimalactone B		2007	polyketide	natural enantiomer biomimetic	https://pubs.acs.org/doi/abs/10.1021/ol702806v
103	sinoracutine		2016	alkaloid	varying optical purity	https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201608206
104	smenochromene B		2007	meroterpenoid	racemate biomimetic	https://www.sciencedirect.com/science/article/pii/S0040402007004851?via%3Dihub

105	smenochromene D		2007	meroterpenoid	racemate biomimetic	https://www.thieme-connect.com/products/ejournals/abstract/10.1055/s-2005-863713
106	SNF4435 C		2005	polyketide	natural enantiomer biomimetic	https://pubs.acs.org/doi/abs/10.1021/ol051790g
107	SNF4435 D		2005	polyketide	natural enantiomer biomimetic	https://pubs.acs.org/doi/abs/10.1021/ol051790g
108	stephadiamine		2018	alkaloid	racemate	https://pubs.acs.org/doi/10.1021/jacs.8b01918
109	sterekunthal A		2003	meroterpenoid	racemate biomimetic	https://pubs.acs.org/doi/abs/10.1021/ja036026i

110	sterekunthal B		2003	meroterpenoid	racemate biomimetic	https://pubs.acs.org/doi/10.1021/ja050092v
111	taiwaniaquinol B		2016	terpenoid	racemate	https://pubs.acs.org/doi/abs/10.1021/ja062505g
112	taiwaniaquinol D		2016	terpenoid	racemate	https://pubs.acs.org/doi/abs/10.1021/ja062505g
113	taiwaniaquinone H		2016	terpenoid	racemate	https://pubs.acs.org/doi/abs/10.1021/ja062505g
114	temuline		2011	alkaloid	natural enantiomer	http://www.nature.com/articles/nchem.1072

115

trichodermatide A
(proposed structure)

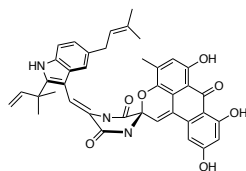
2014

polyketide

racemate
structure
subsequently
revised
<https://cdn-pubs.acs.org/doi/10.1021/je501206k>

116

variecolortide A



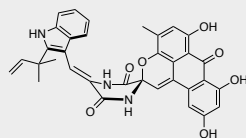
2010

miscellaneous

natural
racemate
biomimetic
<https://onlinelibrary.wiley.com/doi/abs/10.1002/anie.201006154>

117

variecolortide B



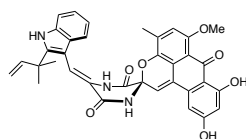
2010

miscellaneous

natural
racemate
biomimetic
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118

variecolortide C



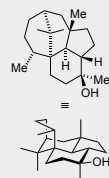
2010

miscellaneous

natural
racemate
biomimetic
<https://onlinelibrary.wiley.com/doi/abs/10.1002/ejoc.201200712>

119

wickerol A



2017

terpenoid

natural
enantiomer
<https://pubs.acs.org/doi/10.1021/jacs.7b05046>