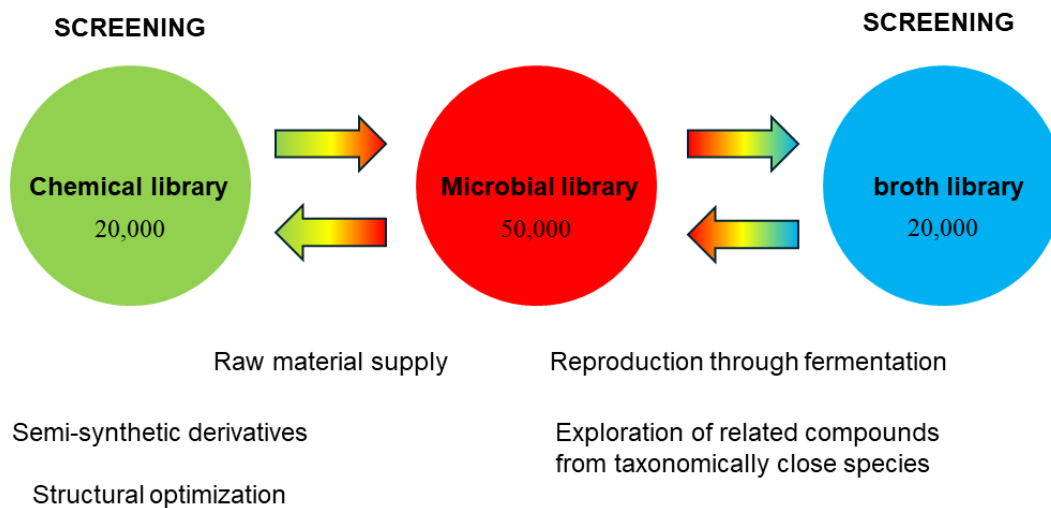


BioJapan 2025 に展示ブース出展（ブース No. A-6）

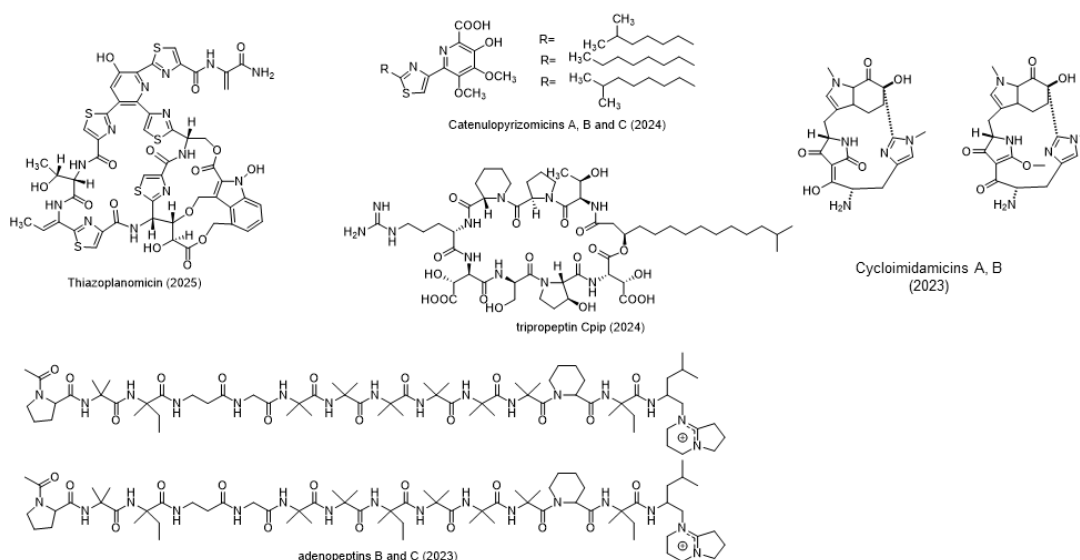
10月8日(水)～10日(金) 10:00-17:00：会場 パシフィコ横浜

BioJapan では以下のことを紹介します。

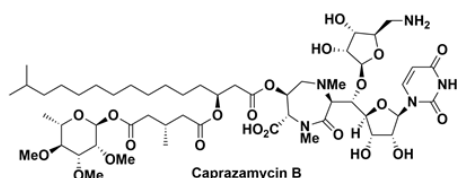
◆ 微生物化学研究所では微生物が生み出す天然物ライブラリーに力を入れています。



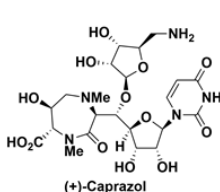
◆ 毎年、未知の複雑な天然物の構造を決定しています。



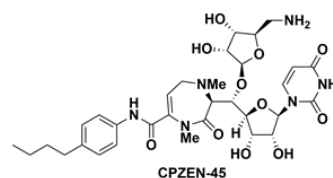
◆ 天然物の全合成に取り組むことで創薬に向けての合成展開が可能になっています。



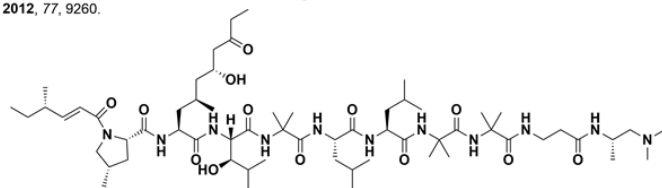
Abe, H.; Gopinath, P.; Ravi, G.; Watanabe, T.; Shibasaki, M. *Tetrahedron Lett.* **2015**, *56*, 3782.
Gopinath, P.; Watanabe, T.; Shibasaki, M. *J. Org. Chem.* **2012**, *77*, 9260.



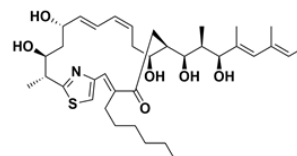
Gopinath, P.; Wang, L.; Abe, H.; Ravi, G.; Masuda, T.; Watanabe, T.; Shibasaki, M. *Org. Lett.* **2014**, *16*, 3364.



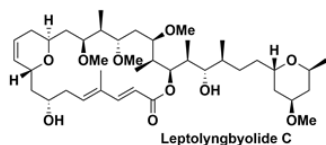
Takeuchi, T.; Abe, H.; Watanabe, T.; Shibasaki, M. *Tetrahedron Lett.* **2016**, *57*, 2901.



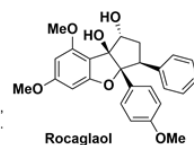
Abe, H.; Ouchi, H.; Sakashita, C.; Kawada, M.; Watanabe, T.; Shibasaki, M. *Chem. Eur. J.* **2017**, *23*, 11792.



Matsuzawa, A.; Opie, C. R.; Kumagai, N.; Shibasaki, M. *Chem. Eur. J.* **2014**, *20*, 68.



Cui, J.; Morita, M.; Ohno, O.; Kimura, T.; Teruya, T.; Watanabe, T.; Suenaga, K.; Shibasaki, M. *Chem. Eur. J.* **2017**, *23*, 8500.



Samanta, S.; Noda, H.; Watanabe, T.; Cui, J.; Shibasaki, M. *Angew. Chem. Int. Ed.* **2024**, *63*, e202415805.

◆ 微生物の環境分野へも応用も展開しています。

At facilities that utilize seawater, such as power plants, the disposal of contaminants other than seawater, such as jellyfish and shellfish, has become issues.

1. Landed jellyfish and shellfish decay progress rapidly and produce a strong odor.
2. Chemical decomposition makes wastewater treatment difficult.
3. Microbial treatment of landed marine waste is eco-friendly!



◆ 展示ブースでは冬虫夏草の実物なども展示しています。



◆ 微生物化学研究所が発見し精製した幾つかの物質はフナコシから市販されています。

Biological Activity		
Function	Description	Product Code
Anti-tumor	Altamycin	12151
	Bactobolin A (Hydrochloride)	08465
	Braucaberin	14659
	COMC	14701
	COTC	14675
	6-epi-COTC	14698
	Forphenicol	09637
	Inostamycin A (Sodium Salt)	14652
	Iturin A-2	15171
	Lentztrehalose A	14678
Metastasis control	Migrastatin	10708
	Oxanosine	00762
Antimicrobe (gram-positive & negative)	Migrastatin	10708
	Althiomycin	14660
Anti-gram positive bacteria	Bactobolin A (Hydrochloride)	08465
	Cyclamidomycin	01541
Anti-MRSA, Anti-VRE	Negamycin (Sodium Salt)	14662
Anti-respiratory infectious bacteria	Botromycin A2	00592
Acid-fast bacillus growth suppression	Botromycin A2	00592
Anti-fungal	Forphenicol	09637
	Minosaminomycin	02872
Inhibition of protein synthesis in bacteria	Benanomicin A	02966
	Benanomicin B	02968
	Iturin A-2	15171
	Pipastatin A1	15170
Pneumocystis pneumonia suppression	Althiomycin	14660
Anti-HIV-1	Minosaminomycin	02872
Immunoregulation	Negamycin	14662
Inhibition of aflatoxin production	Benanomicin A	02966
Lectin-like function	Benanomicin B	02968
Induced systemic resistance	Forphenicol	09637
	Diocatin A (Hydrochloride)	14700
	Benanomicin A	02966
	Iturin A-2	15171
	Pipastatin A1	15170

Enzyme Inhibitor or Enzyme Resistant Substance		
Function	Description	Product Code
Inhibition of DNA helicase	Heliquinomycin	10665
Inhibition of GMP synthase	Oxanosine	00762
Inhibition of NADH (ubiquinone oxidoreductase)	Piericidin A1	14688
Inhibition of NDPK (nucleoside diphosphate kinase)	Cyclamidomycin	01541
Inhibition of α -glucosidase	6-O-Methylreticulol	14693
Inhibition of β -galactosidase	Pyridindolol	00372
Inhibition of alkaline phosphatase	Forphenicol	09636
Inhibition of glyoxalase-I (GloI)	COTC	14675
Inhibition of glutathione S-transferase	Benastatin A	00379
	Benastatin B	14653
	Benastatin C	00380
	Bequinosatin A	14681
Inhibition of dipeptidyl aminopeptidase	Bequinosatin C	14654
Inhibition of dipeptidyl peptidase III	Diocatin A (Hydrochloride)	14700
Inhibition of protein phosphatase 2A	Fluostatin A (Sodium Salt)	15403
	Fluostatin B	14683
Inhibition of thymidylate synthase	Cytostatin (sodium salt)	10664
Inhibition of tyrosine kinase	Rubratoxin A	10663
Inhibition of dopamine β -hydroxylase	Vanoxonin	10744
Inhibition of heparanase	Erbstatin	14697
Inhibition of phospholipase A2	Dopastin	00381
Suppression GRP78 up-regulation	Heparastatin (Hydrochloride) <SF-4>	11829
Resistance to trehalase	Pipastatin A1	15170
	Piericidin A1	14688
	Lentztrehalose A	14678
	Lentztrehalose B	14679
	Lentztrehalose C	14680

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