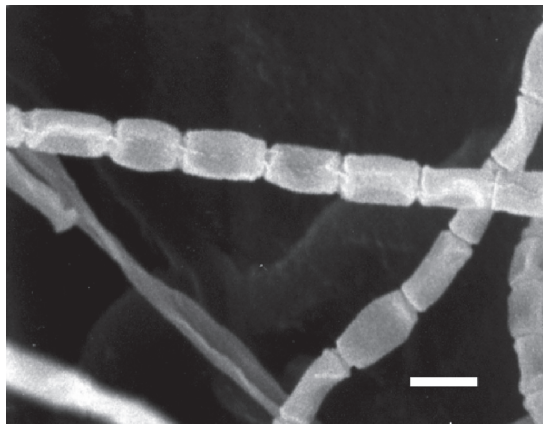


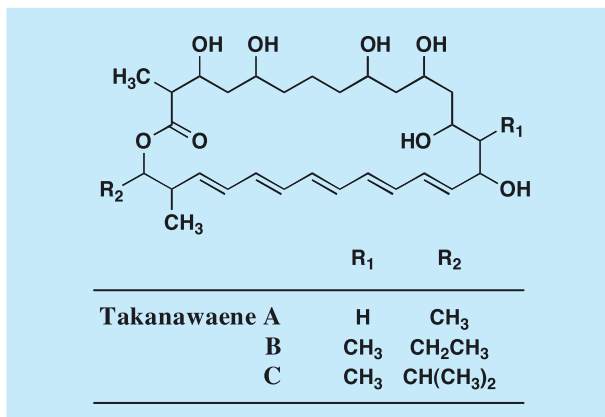
Takanawaene

1. Discovery, producing organism and structures^{1,2)}

Takanawaenes were isolated from the culture broth of *Streptomyces* fungal strain K99-5278 as antifungal antibiotics. The structure was elucidated as simple 28-membered pentaene macrolides without a sugar.



Streptomyces sp. K99-5278



2. Physical data (Takanawaene A)

Pale yellow powder. C₃₀H₄₈O₈; mol wt 536.70. Sol. in DMSO, MeOH, CHCl₃. Insol. in H₂O, hexane.

3. Biological activity¹⁾

Takanawaenes showed antifungal activity against *Aspergillus niger*, *Mucor racemosus*, *Candida albicans* and *Saccharomyces cerevisiae*. But, they showed no anti-bacterial activity

Antifungal activity of takanawaene B on the liquid culture method

Test organism	IC ₅₀ (μM)
<i>Aspergillus niger</i>	0.94
<i>Mucor racemosus</i>	44.3
<i>Candida albicans</i>	177.0
<i>Saccharomyces cerevisiae</i>	20.9

4. References

- [833] Y.-P. Kim *et al.*, *J. Antibiot.* **56**, 448-453 (2003)
- [834] T. Fukuda *et al.*, *J. Antibiot.* **56**, 454-458 (2003)