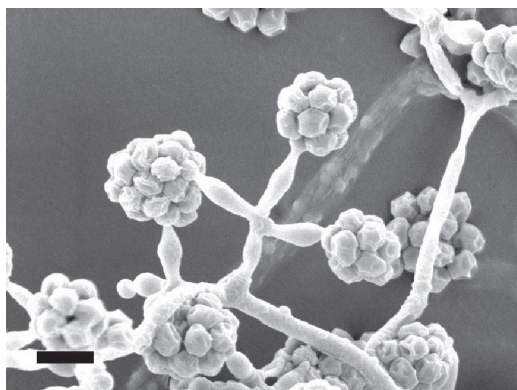


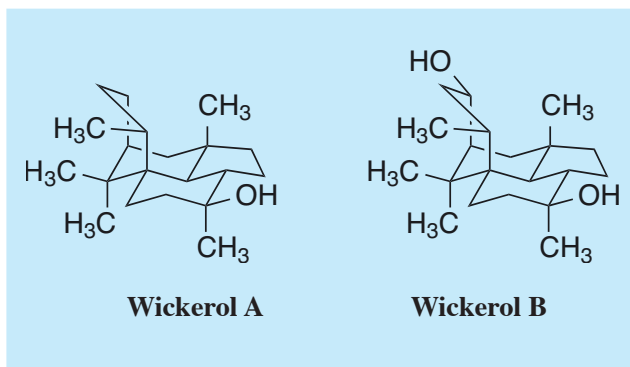
# Wickerol

## 1. Discovery, producing organism and structure<sup>1)</sup>

A new anti-influenza antibiotics, wickerols, were isolated from the culture broth of *Trichoderma atroviride* FKI-3737. Wickerols have a unique 3*H*-5*a*,9-methanocycloocta[*cd*]indene skeleton (fused 6-5-6-6 ring system), which were confirmed by X-ray crystallographic analysis of wickerol A for the relative stereochemistry.



*Trichoderma atroviride* FKI-3737  
Bar: 5  $\mu$ m



## 2. Physical data (Wickerol A)<sup>1)</sup>

White powder. C<sub>20</sub>H<sub>34</sub>O; mol wt 290.48. Sol. in EtOH, acetone, CHCl<sub>3</sub>, *n*-hexane. Slightly sol. in MeOH, 2-PrOH. Insol. in H<sub>2</sub>O.

## 3. Biological activity<sup>1)</sup>

Wickerol A inhibited the growth of influenza virus A/PR/8/34 in MDCK cells at the IC<sub>50</sub> value of 70 ng/ml, while it inhibited the growth of the host MDCK cells at the IC<sub>50</sub> value of 7,100 ng/ml.

## 4. References

- [1125] T. Yamamoto *et al.*, *Tetrahedron* **68**, 9267-9271 (2012)