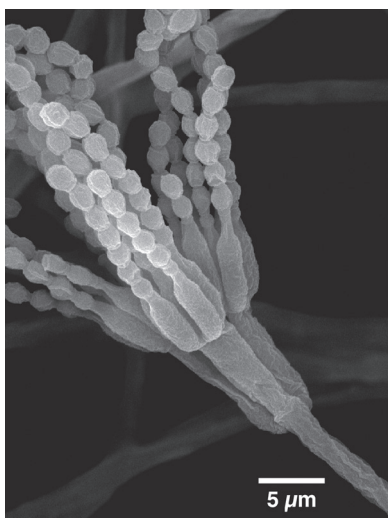


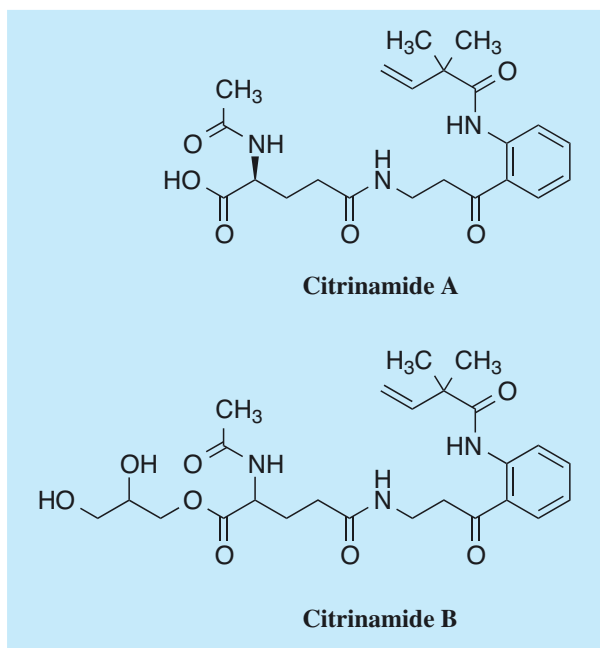
# Citrinamide

## 1. Discovery, producing organism and structure<sup>1,2)</sup>

Citrinamides A and B were found in a cultured broth of a fungal strain, *Penicillium* sp. FKI-1938 and shown to be potentiators of the antifungal miconazole activity against *Candida albicans*.



*Penicillium* sp. FKI-1938



## 2. Physical data (Citrinamide A)

Brown solid.  $C_{22}H_{29}N_3O_6$ ; mol wt 431.48. Sol. in MeOH,  $CHCl_3$ , EtOAc, Insol. in  $H_2O$ .

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

### 1) Miconazole-potentiating activity

Citrinamides A and B showed no antifungal activity against *Candida albicans* even at 250  $\mu g/mL$ . However, both citrinamide A and B decreased the  $IC_{50}$  values of miconazole antifungal activity from 9.1 to 5.0 and 4.4 nM, respectively.

## 4. References

- [1022] T. Fukuda *et al.*, *J. Antibiot.* **61**, 550-555 (2008)