



Treating Fungal Infections with New Forazoline Compounds

[View U.S. Patent No. 9,346,828 in PDF format.](#)

WARF: P130274US02

Inventors: Timothy Bugni, Thomas Wyche, David Andes, Douglas Braun

The Wisconsin Alumni Research Foundation (WARF) is seeking commercial partners interested in developing compounds isolated from a sea squirt bacterium that could be effective against *Candida* and other fungi.

Overview

Fungal infections range in severity from common athlete's foot to life-threatening illness. Treatment can be very expensive. The cost of treating systemic *Candida* yeast infections exceeds \$31,000 per patient in the United States. This fungus is responsible for afflictions like diaper rash, vaginal yeast infection and oral thrush.

Finding new agents to fight *Candida* and other fungal infections could be globally beneficial and profitable.

The Invention

UW-Madison researchers have developed antifungal compounds isolated from *Actinomadura*, a bacterium found in a species of sea squirt. After extensive chemical isolation and characterization, the researchers identified a new class of compounds called 'Forazolines' that possess antifungal activity. Forazoline A was shown to be effective against *Candida albicans* in a mouse model.

Applications

- Developing new antifungal agents (cream, nasal spray, syrup, etc.) against *Candida* yeast and potentially other strains

Key Benefits

- Proven effective
- Forazoline is a natural product.
- Could be safely and flexibly administered to patients

Stage of Development

In a mouse model of *C. albicans* infection, Forazoline A was shown to reduce kidney fungal load by a log after eight hours of treatment. No toxic effects were observed at the concentrations used.

Additional Information

For More Information About the Inventors

- [Timothy Bugni](#)
- [David Andes](#)

We use cookies on this site to enhance your experience and improve our marketing efforts. By continuing to browse without changing your browser settings to block or delete cookies, you agree to the storing of cookies and related technologies on your device. [See our privacy policy.](#)

Related Technologies

OK



WARF
Wisconsin Alumni Research Foundation

| info@warf.org | 608.960.9850

- [WARF reference number P06201US describes beta-peptides for treating yeast infections caused by *C. albicans*.](#)

Tech Fields

- [Therapeutics & Vaccines : Anti-infectives \(antibacterials, antifungals, antivirals\)](#)

For current licensing status, please contact Rafael Diaz at rdiaz@warf.org or 608-960-9847

We use cookies on this site to enhance your experience and improve our marketing efforts. By continuing to browse without changing your browser settings to block or delete cookies, you agree to the storing of cookies and related technologies on your device. [See our privacy policy.](#)

OK



WARF
Wisconsin Alumni Research Foundation

| info@warf.org | 608.960.9850