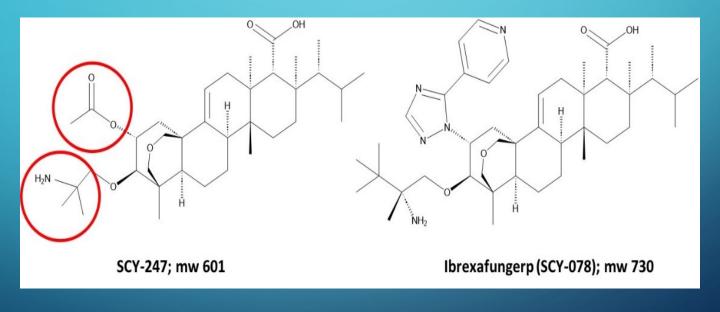


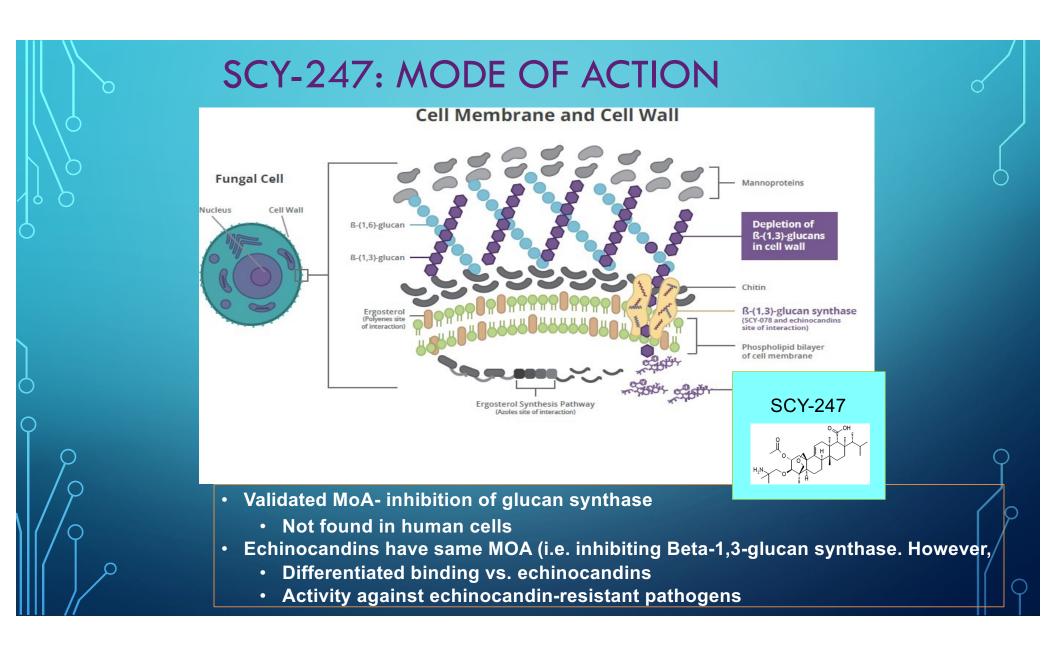
SCY-247, A SECOND-GENERATION IV/ORAL TRITERPENOID ANTIFUNGAL: IN VITRO ACTIVITY AGAINST A BROAD-SPECTRUM OF FUNGAL PATHOGENS, AND DOSE-DEPENDENT TISSUE DISTRIBUTION IN VIVO

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>30 Fungerp analogs were screened resulting in selection of SCY-247



Structural comparison of Ibrexafungerp with second-generation derivative-SCY-247.



SCY-247: MICROBIOLOGY PANEL TESTED

Yeasts	Moulds	Dimorphics
C. albicans	A. flavus	Coccidioides immitis
C. auris	A. fumigatus	Histoplasma spp.
C. glabrata	A. nidulans	Blastomyces spp
C. kefyr	A. terreus	
C. krusei	Acremonium	
C. metapsilosis	Fonsecaea pedrosoi	
C. orthopsilosis	Fusarium oxysporum	
C. parapsilosis	F. solani	
C. tropicalis	Pseudallescheria boydii	
Rhodotorula spp.	Rhizopus oryzae	
Saccharomyces spp.	Scedosporium apiospermum	
Cryptococcus neoformans	S. prolificans	
Trichosporon asahii	Paecilomyces spp.	
Geotrichum capitatus	Trichoderma spp.	
Kodamaea ohmeri		

SCY-247: MICROBIOLOGY CONT'D

SCY-247 performed well in *in vitro* susceptibility studies, with comparable activity to ibrexafungerp across the entire panel studied

Fungus (# of isolates)	<i>In Vitro</i> Concentrations	SCY-247 (μg/ml)
Candida spp. (47)	MIC50	0.5
Aspergillus spp. (20)	MEC50	0.063
Dimorphics* (15 each)	MEC50	<0.25

*Coccidioides, Histoplasma, Blastomyces

SCY-247: ACTIVITY AGAINST RESISTANT ISOLATES

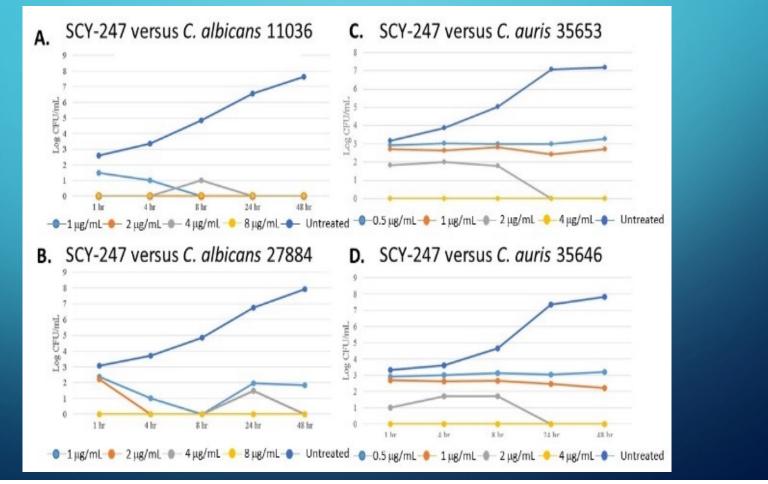
The activity profile of SCY-247 against MDR resistant strains

• The activity of SCY-247 was evaluated against Candida and Aspergillus isolates shown to be resistant to echinocandins and/or azoles

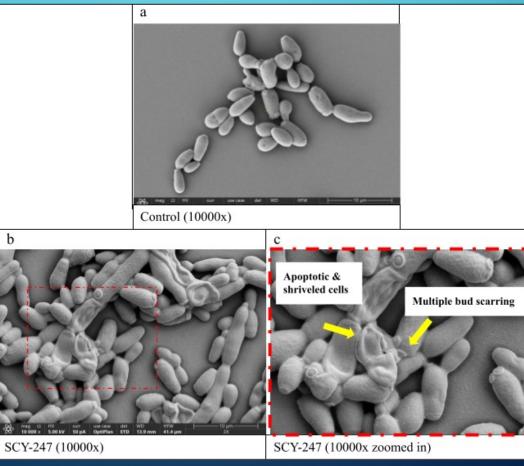
• Evaluated in 12 C. albicans, 22 C. glabrata and 18 Aspergillus spp. isolates

	SCY-247 (μg/ml)
C. albicans (MIC)	0.125 - 4
C. glabrata (MIC)	<0.03 - 1
Aspergillus (MEC)	0.03 - 4

Growth over 48 hours of C. albicans and C. auris exposed to SCY-247



SEM images of Candida auris 35654 exposed to SCY-247 versus untreated control



SCY-247: IN VITRO STUDIES KEY FINDINGS

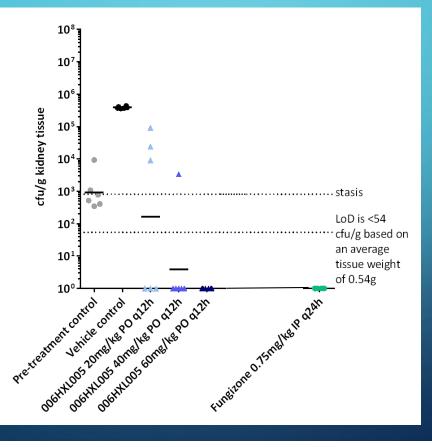
- Broad-spectrum activity against yeasts, moulds and dimorphic fungi
- Potent in vitro activity:
 - Dose Dependent Effect
 - In vitro fungicidal activity against Candida
 - SEM showed that SCY-247 treated C. auris cells were enlarged, shriveled, had excessive budding scars, holes in the cell wall, their cytokinesis was inhibited, and apoptosis was observed

SCY-247: PROFILE COMPARISON TO THE THREE EXISTING ANTIFUNGAL CLASSES



SCY-247: PROOF OF CONCEPT IN MURINE C. ALBICANS MODEL – RESULTS

Positive dose-dependent response following oral administration



006HXL005 = SCY-247



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