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HR EXCELLENCE IN RESEARCH

INHIBITORS OF THE PROLIFERATION OF FUNGI OF THE SPECIES *Cryptococcus neoformans*

PATENT: MD 4712 C1(2020.09.30)
MD 4742 C1(2021.02.28)

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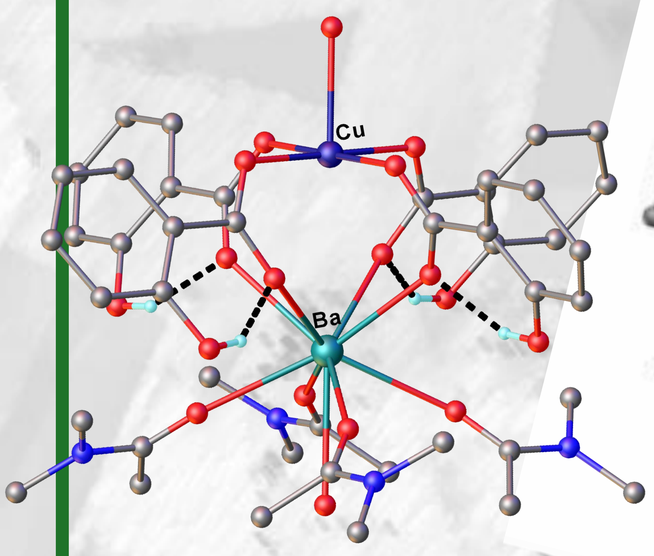
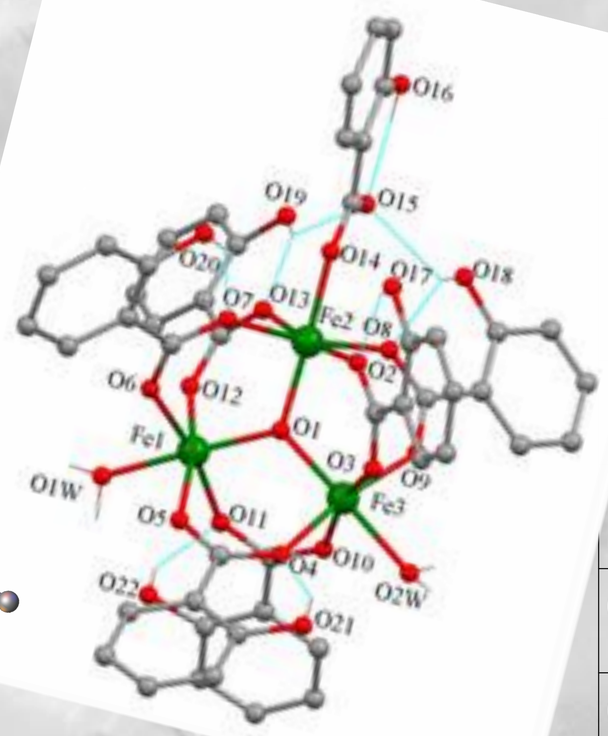
APPLICATION FIELDS: Medicine – Pharmacy – Cosmetics.

AIM: Chemical synthesis, characterization of new synthetic antifungal agents with potential application in medicine.

SOLUTION: New polynuclear coordination compounds based on oxo-bridged salicylates have bee obtained.



compound 1



compound 2

tifungal activity (MIC* / MFC) (μg/mL)**

Compound	*Cryptococcus neoformans* CECT 1043	
	MIC	MFC
luconazole	16.0	-
Proximal analogue	0.12	0.24
Claimed compound 1	0.10	0.20
Claimed compound 2	0.08	0.16

*MIC – minimum inhibitory concentration.
**MFC – minimum fungicidal concentration.

ADVANTAGES: The described compounds manifest antifungal properties against *Cryptococcus neoformans* CECT 1043. These agents exceed 200-160 times the analogous characteristics of Fluconazole that is used in medical practice and 1.5-1.2 times the analogous characteristics of closest prior art. They can be used in medicine and veterinary medicine for the prevention and treatment of mycoses.

IMPLEMENTATION STAGE: At laboratory level.

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