Federation of European Microbiological Societies

FEMS Online Conference on Microbiology

28 – 31 October 2020

ELECTRONIC ABSTRACT BOOK

in association with the Serbian Society of Microbiology

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EFFICACY OF N-CHLOROTAURINE AGAINST CANDIDA SPP. ISOLATED FROM VULVOVAGINAL CANDIDIASIS

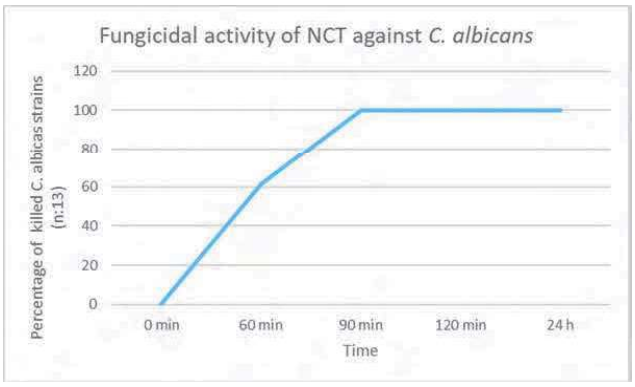
Mayram HACIOGLU[1], Ozlem OYARDI[1], Markus Nagl[2]

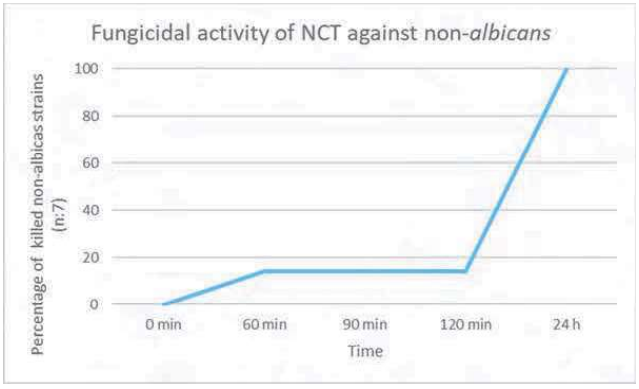
1 Istanbul University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Istanbul, Turkey
2 Division of Hygiene and Medical Microbiology, Medical University of Innsbruck, Innsbruck, Austria

N-Chlorotaurine (NCT), the N-chloro derivative of the amino acid taurine, is a long-lived oxidant produced by stimulated human leucocytes and has bactericidal, fungicidal, virucidal and vermicidal activities, especially in the presence of organic material. As a result of these properties and in view of its low cytotoxicity against human cells, the NCT has potential as an antimicrobial agent in local treatment of infections. For this reason, the aim of this study was an evaluation of antifungal effects of NCT against Candida spp.

Antifungal effects of NCT at a concentration of 1% (55 mM) were evaluated against 20 Candida spp. (13 C. albicans, 3 C. glabrata, 2 C. tropicalis, 1 C. krusei, 1 C. famata) isolated from vulvovaginal candidiasis (VVC), according to European Standard methods, at 60, 90, 120 minutes and 24 hours at 37°C, in the presence of milk as an organic material.
The killing was significantly observed at 60 minutes especially for C. albicans strains (n=8, % 61.5). In general, non-albicans strains were more resistant than C. albicans. While 1% of NCT led to 6 log10 reduction for C. albicans after at most 90 minutes, most non-albicans strains were killed between 2 and 24 hours. The killing of at least 6 log10 was observed at the incubation time of 24 h against all the studied strains.

According to our results, NCT can be applied to the sensitive body regions as an endogenous antiseptic and could be used as a new agent for treatment of local fungal infections, like VVC.





FRIDAY, 30th October 2020

Schedule

14.00-14.40 Plenary
Chair – Vaso Taleski, Dejan Baskić, Lazar Ranin
Petra Dersch, Germany
Remodelling Yersinia-host interactions - For better or worse?

14.40-14.50 Discussion

14.50-17.40 Session 3
AMR, noval therapeutic agents
Chairs – Vaso Taleski, Dejan Baskić, Lazar Ranin

14.50-5.15 Stefano Donadio, Italy
Scientific and financial challanges for new antibiotics

15.15-15.40 Branislava Kocić, Serbia
Susceptibility pattern of Gram-negative bacilli to antimicrobial agents with an emphasis on colistin and carbapenems

15.40-16.05 Rossitza Vatcheva-Dobrevska, Bulgaria
Approaches to prevent and control the spread of mdr pathogens in healthcare setting

16.05-16.50 Discussion and Q&A

16.50-17.00 Break

17.00-17.50 Lucia Rubio Fernandez, Belgium
The European Research Council – funding opportunities for bright minds

17.50-18.30 PFIZER

Matteo Bassetti, Italy
Novel antibiotics in the era of AMR

14.50-17.40 Session 4
Microbiomes and human health (mixed focus)
Chairs – Bauke Oudega, Jelena Begović

14.50-15.15 Jeroen Raes Belgium
Quantitative microbiome profiling in health and disease

15.15-15.40 Özgür Kurt, Turkey
Neglected residents of the gut microbiota

15.40-16.05 Nataša Golić, Serbia
Gut microbiota and autoimmune diseases

16.05-16.30 Maja Rupnik, Slovenia
Clostridium difficile and One Health (position possibility 2)

16.30-16.55 Marina Dinić, Serbia
Plasmid-mediated Cephalosporinase in Enterobacterales - Challenges in Detection

16.55-17.40 Discussion and Q&A

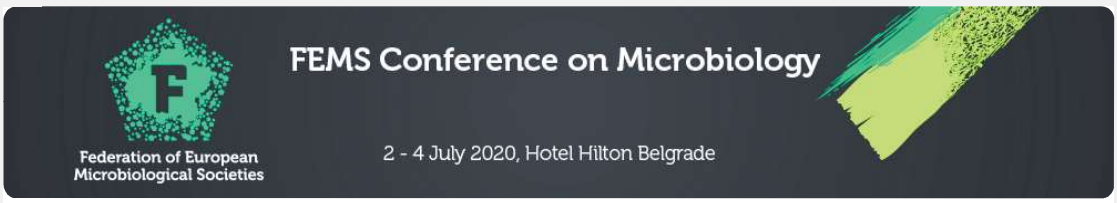
17.40-17.50 Break

Abstract submission update - FEMS Conference on Microbiology 2020

FEMS Conference on Microbiology 2020 <office@fems2020belgrade.com>
via sendinblue.com

Sat 3/28/2020 3:17 PM

To:mayramtuysuz@hotmail.com <mayramtuysuz@hotmail.com>



Dear dr Mayram Hacioglu,

We hope that everything is well with you, your family and colleagues and that you are healthy.

We would like to thank you for your interest in participating at the 1st FEMS Conference on Microbiology which will be held in Belgrade 2-4 July 2020, and for submitting your abstract.

We are happy to inform you that your abstract titled **"Thyme essential oil inhibits biofilms of Candida spp"** has been approved by the Scientific and Organizing Committee, and included in the **Session No. 4 Biofilms**.

Following an assessment of circumstances and risks involved, we hereby inform you that this Conference is currently scheduled to go ahead as planned.

The safety and welfare of our attendees and staff is our top priority. Consequently, FEMS will continue to review the advice and information from the relevant professional and governmental bodies who are monitoring the situation and update participants regularly. You can find all the updates and information on the official website of the Conference www.fems2020belgrade.com

We are glad to inform you that the response from potential participants and the Industry over the last 3-4 months has been substantial, and that our organizational teams continue to work in full capacity on all aspects of the Conference preparation, closely observing COVID-19 pandemics situation and all related developments.

At the same time, we would like to share some currently relevant