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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THYME ESSENTIAL OIL INHIBITS BIOFILMS OF CANDIDA SPP.

Mayram Hacioglu, Ozlem Oyardi, Alpcan Kirinti

Istanbul University, Faculty of Pharmacy, Department of Pharmaceutical Microbiology, Istanbul, Turkey

Treatment of Candida biofilm infections is extremely difficult since biofilm cells are much more resistant than planktonic cells. Attempts have been made to discover new agents targeting novel sites such planktonic and biofilm forms that may circumvent resistance, as essential oils. Therefore the aim of this study was to evaluate the antibiofilm activities of thyme essential oil against Candida spp. isolates.

Activity of thyme against mature (preformed 24 hour biofilms) and inhibition of adhesion and biofilm formation (developing biofilms) of ten clinical Candida spp. (four C. albicans, six non-albicans) isolates were evaluated. Antibiofilm activities of thyme oil against developing biofilms was evaluated 1x, 1/10x and 1/100x MIC (0.05, 0.005 and 0.0005 µg/ml, respectively) at the end of 2, 4, 6, and 24 hours. Effects of coating the wells of plate with thyme oil were also measured at the 1x, 4x and 10x MIC (0.05, 0.2 and 0.5 µg/ml, respectively) concentrations.

Although inhibition of adhesion and biofilm formation rates depended on time and concentration, it was found that percentage inhibition rates for thyme essential oil was up to 36.14%, against Candida spp. isolates. At the concentration of 5 µg/ml thyme oil was found effective against mature biofilms of both C. albicans and non-albicans strains. It was also found that thyme essential oil showed significant reductions, up to 49.59%, of inhibition rates of biofilm formation when plates were coated with it.
In conclusion thyme essential oil has antibiofilm activities both against mature and developing biofilms of Candida spp.

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

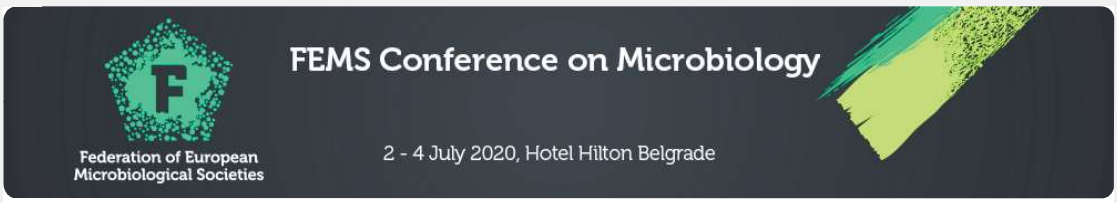
17.40-17.50 Break

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