

CHARLES UNIVERSITY

FACULTY OF PHARMACY IN HRADEC KRALOVE

Department: Dpt. of Pharmaceutical Chemistry and Pharmaceutical Analysis

Master's degree program in Pharmacy

Mentor's evaluation of Master's thesis

Student's name: Sarah Basem Bouz

Thesis mentor's name: PharmDr. Jan Zitko, Ph.D.

Year of the thesis defense: 2019

Title of the thesis:

Derivatives of quinoxaline-2-carboxylic acid as potential antimicrobial compounds

The topic of the thesis was chosen from the list of topic in the department

Working with literature very good.

Language skills excellent.

Student invention good.

The student was working independently with mentor help.

Problems and issues were solved independently with mentor help.

Working in the lab was very good.

Interpretation of the results correct with small corrections.

Processing of the thesis was correct with mentor corrections.

Graphical processing of the thesis excellent.

I recommend Diploma thesis for the recognition as Rigorous thesis .

Mentor's comments both on the thesis and the student's approach:

Sarah B. Bouz joined our research group three years ago and started the intermittent work on her diploma theses. Under proper supervision, she was able to perform the syntheses and purification of the final products. She learned to work properly with needed instrumentation, including flash-chromatograph. S. B. Bouz prepared 16 derivatives of N-phenyl or N-benzyl substituted quinoxaline-2-carboxamide, which were tested for antimicrobial activity in vitro. The write-up of the thesis was behind the time-

plan, but in the end the final version is compliant with the requirements. SAR evaluation and overall discussion of biological results was prepared jointly with mentor and co-supervisor. The results contained in the thesis - after extension of the series - will be sent for publication in an impacted journal.

The control by Theses system revealed several similar documents (the highest calculated similarity was 13%), but the similarities were limited to short phrases and fixed expressions from the experimental description of the procedures.

Evaluation of Master's thesis: very good

Recommendations for the thesis defense: recommended

In Hradec Kralove 30. 5. 2019

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Mentor's signature