

CHARLES UNIVERSITY
FACULTY OF PHARMACY IN HRADEC KRALOVE
Department: pharmaceutical chemistry and pharmaceutical analysis

Master's degree program in Pharmacy
Mentor's evaluation of Master's thesis

Student's name: Cristina Paredes de la Red

Thesis mentor's name: prof. Martin Doležal

Year of the thesis defense: 2018

Title of the thesis:
Synthesis and antiinfective evaluation of substituted N-(pyrazin-2-yl)benzenesulfonamides

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

Working with literature excellent.

Language skills excellent.

Student invention excellent.

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:

It was a pleasure to welcome Cristina Paredes de la Red from Madrid - Faculty of Pharmacy, Spain, as a ERASMUS+ student in my research group. I have supervised Cristina from the 20th of February 2018 to the 15th June, 2018 at Pharmaceutical Chemistry and Pharmaceutical Analysis Department, Faculty of Pharmacy in Hradec Kralove, Charles University, Czech Republic. Her experience stay has been divided between our chemical synthesis laboratories and microbiology laboratories, during

which Cristina Paredes de la Red synthesized a number of compounds and tested their antibacterial/antifungal activities against a number of pathogens of medical interest. During her experience stay, Cristine used her great critical thinking abilities in solving any encountered challenges, her strong chemical background while performing chemical reactions and subsequent purifications, and her accuracy and patience while performing antibacterial/antifungal biological evaluations for the synthesized compounds.

Cristine possess high level of professionalism reflected by arriving on time, completing assigned tasks within given time frame, taking responsibilities of actions, beside showing passion, commitment, and willingness to learn and excel. As a member of a team composed of international students and trainees (Ms. Ghada Bouz), Cristine showed great team work spirit, communication skills, and English language abilities. Cristina Paredes de la Red has acquired various skills during her stay that shall benefit his future career, those include operating CEM Discover microwave reactor with a focused field (CEM Corporation, Matthews, NC, USA), operating preparative flash chromatograph CombiFlash® Rf (Teledyne Isco Inc., Lincoln, NE, USA) or puriFlash® XS 420+ (Interchim, Montluçon FRANCE), along with performing microdilution broth method for biological evaluations, and many other laboratories procedures.

Cristina Paredes de la Red was very successful and was awarded for her scientific presentations during the Student Scientific Conference 2018 with the 2nd place in MedChem section with presentation entitled "Synthesis and antiinfective evaluation of substituted N-(pyrazin-2-yl)benzenesulfonamides" (18th April, 2018). The final writing of diploma thesis with the same title was without problems, the important role during all the period of ERASMUS stay Ghada Bouz and Dr. Zitko played as consultants.

I recommend the thesis for the defense.

Evaluation of Master's thesis: excellent

Recommendations for the thesis defense: recommended

In Hradec Kralove May, 25th, 2018

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Mentor's signature