

ABSTRACT

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Title of bachelor thesis: Study of substituted arylguanidines as potential drugs XIV.

In view of the increasing number of fungal pathogens and the increased resistance of these pathogens to already available antifungal agents, a new structure inhibiting the growth of these pathogens must be sought.

In the area of guanidine-derived substances, a worldwide research is taking place, which is also attended by the Faculty of Pharmacy in Hradec Králové.

As part of my bachelor thesis, five previously unpublished substances have been synthesized:

hexadecyl(4-methyl-2-nitrophenyl) sulfide

2-(hexadecylsulfanyl)-5-methylaniline

2-(hexadecylsulfanyl)-5-methylanilinium chloride

2-[2-(hexadecylsulfanyl)-5-methylphenyl]guanidinium nitrate

2-[2-(hexadecylsulfanyl)-5-methylphenyl]-1,1-dimethylguanidine