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ANTIMACROBIAL ACTIVITY AND SYNTHESIS OF THIOSEMICARBAZIDE AMINO ACID DERIVATES

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The 5-(1,5-diamino-pentyl)-1-amino-1H-1,3,4-triazole-2-thiol^[1] and the 5-(1,5-diamino-pentyl)-4-amino-S-glucosyl-1,2,4-triazole^[2] derivatives from amino acid were synthesized. The synthetic intermediates, ester, hydrazid and thiosemicarbazide derivatives have shown a significant tendency to form S-Nucleosides with sugar (glucose). A novel nucleoside from oxadiazol derivative with glucose was synthesized and was detected by IR spectroscopy and NMR^[3]. The antimicrobial activity for final and synthetic intermediates *in vitro* against the microorganisms: *Escherichia coli*, *Pseudomonas aeruginosa*, *Staphylococcus aureus* and *Salmonella chiquer* were examined and some products showed noticeable activity against the tested microorganisms^[4].

References:

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Biography

Yamina C has completed her PhD at the age of 32 years from Oran University, ALGERIA. She is the student of Mostaganem University, Algeria. She has one publication on journal of European Chemical Bulletin "Synthesis and Antimicrobial Activity of Some New L-Lysine Glycoside Derivatives".

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