Synthesis and Antimicrobial Activity of Some Annelated Quinazoline Derivatives

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A highly efficient and versatile synthetic approach to the synthesis of annelated quinazoline derivatives viz. 3,4,9,10a-tetraazaphenanthrenes 5–7, thiazolidinylquinazoline 9, 2,4,9,10a-tetraazaphenanthrene 11, quinazolino[4,3-b]quinazolin-8-one 12 and imidazoquinazolines 14a,b, 15. Also, a variety of pyrazolylquinazolines 19–21, pyrimidinylquinazolines 22a,b were obtained via a sequence of heterocyclization reactions of 4-methyl-N-[4-(4-oxo-3,4-dihydroquinazolin-2-yl)phenyl]benzenesulfonamide (2) with different reagents. The new compounds were synthesized with the objective of study their antimicrobial activity.

Key words: Tetraazaphenanthrene, Quinazolinoquinazoline, Pyrazolylquinazoline, Antimicrobial Activity