Heterocycles [h]-Fused onto 4-Oxquinoline-3-carboxylic Acid, V [1]. Synthesis and Antibacterial Activity of Some New 2,3-Disubstituted 7-Oxo-7,10-dihydropyrido[2,3-f]quinoxaline-8-carboxylic Acids and Esters

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Cyclocondensation reaction of ethyl 7,8-diamino-1-cyclopropyl-6-fluoro-4-oxo-1,4-dihydroquinoline-3-carboxylate (2) or the -3-carboxylic acid 3 with \textit{sym}-1,2- diketones produced the corresponding ethyl 2,3-disubstituted pyrido[2,3-f]quinoxaline-8-carboxylates (4a – h) or the -8-carboxylic acids 5a – h, respectively. The structures for these new heterocycles are supported by analytical and spectral (IR, MS, NMR) data. Compounds 5a – c, g, h exhibit moderate activity against an assortment of bacterial species.

Key words: 7,8-Diamino-4-oxoquinoline-3-carboxylic Acid and Ester, \textit{sym}-1,2-Diketones, Cyclocondensation, 7-Oxopyrido[2,3-f]quinoxalines, Antibacterial Activity